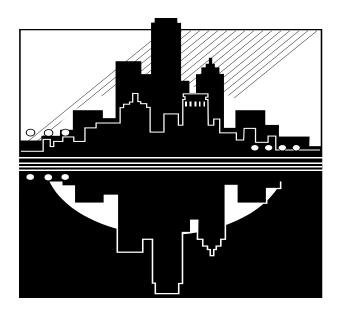


Implementing Guidelines For Infrastructure Projects



Amended Guidelines as Approved by NEDA InfraCom Pursuant to the IRR of RA 9184 13 September 2011



Construction Industry Authority of the Philippines PHILIPPINE DOMESTIC CONSTRUCTION BOARD

CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM (CPES) Implementing Guidelines for Infrastructure Projects as amended on 13 September 2011

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FOREWORD

The original integrated **Constructors Performance Evaluation System (CPES) Implementing Guidelines covering Roads, Bridges, Housings, Buildings, Ports and Harbors Projects** was approved by National Economic and Development Authority (NEDA) Board's Committee on Infrastructure (INFRACOM) on 30 January 1998. The first and second set of amendments to the same guidelines was approved by the NEDA INFRACOM on 19 May 2005 and 27 August 2008, respectively. To cover all types of construction projects, the title of the guidelines was changed to **CPES Implementing Guidelines for Infrastructure Projects**.

Since 1999 up to present, various government agencies, among others, Department of Public Works and Highways (DPWH); Department of Transportation and Communications (DOTC); Department of Science and Technology (DOST); Department of Health (DOH), Department of Education (DepEd), Philippine Ports Authority (PPA), Philippine Tourism Authority (PTA); National Housing Authority (NHA); National Irrigation Administration (NIA); Pasig River Rehabilitation Commission (PRRC); Bases Conversion Development Authority (BCDA); Department of Trade and Industry (DTI); Government Service Insurance System (GSIS), Development Bank of the Philippines (DBP), Polytechnic University of the Philippines (PUP), University of the Philippines (UP), and Local Government of Guimaras, have been implementing CPES in their infrastructure projects.

To further improve the guidelines, the CPES Inter-Agency Committee (IAC) composed of representatives from the DPWH, DOTC, DOST, DepEd, NHA, NIA, BCDA, DBP, U.P., PUP, and PDCB formulated the 3rd set of amendments to the guidelines.

The 3rd set of amendments to the CPES Implementing Guidelines was prepared by the CPES-IAC and the PDCB during its 45th Regular Meeting held on 22 February 2011 under PDCB Resolution No. 03, Series of 2011, endorsed the same to the CIAP Board.

The CIAP Board, in its 59th Regular Board Meeting on 25 March 2011, resolved to endorse the proposed amendments to the CPES Implementing Guidelines under CIAP Board Resolution No. 10, Series of 2011, to the NEDA INFRACOM.

The NEDA-INFRACOM, during its meeting on 13 September 2011, approved the 3rd set of amendments to the **CPES Implementing Guidelines for Infrastructure Projects.**

The revised guidelines is intended to contribute in ensuring the quality and timely delivery of infrastructure projects in the country particularly government projects and improve performance of contractors.

September 2011

ACKNOWLEDGMENT

The Philippine Domestic Construction Board (PDCB) of the Construction Industry Authority of the Philippines (CIAP) acknowledges with thanks the heads of the CPES Implementing Units (CPES-IU) of the following government agencies for their invaluable support in the formulation of the 3rd Revised CPES Implementing Guidelines for Infrastructure Projects:

Engr. Walter R. Ocampo	Department of Public Works and Highways
Engr. Wilfredo C. Borbor	Department of Transportation & Communications
Engr. Arnaldo C. Reyes	Department of Science and Technology
Atty. Elvira V. Estanislao	Bases Conversion Development Authority
Engr. Ma. Otelia F. Eclavea	National Housing Authority
Engr. Robert C. Suguitan	National Irrigation Administration
Engr. Oliver R. Hernandez	Department of Education
Engr. Clarito A. Magsino	Development Bank of the Philippines
Mr. Ariel S. Betan	University of the Philippines
Dr. Rolando C. Viray	Polytechnic University of the Philippines

CIAP-PDCB also recognizes the patience, diligence and selfless dedication of the following members of the CPES Inter-Agency Committee (IAC) which made this task possible:

Department of Public Works and Highways		
Engr. Melrose I. Pailma	Engr. Medmier G. Malig	
Engr. Aristarco M. Doroy	Engr. Mathias L. Malenab	
Department of Transp	ortation and Communications	
Engr. Wilfredo C. Borbor		
Department of S	Science and Technology	
Engr. Arnaldo C. Reyes	Engr. Roberto P. Peredo	
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Bases Conversion	on Development Authority	
Engr. Arnel V. Fortunado		
National	Housing Authority	
Engr. Ma. Otelia F. Eclavea		
National Irrigation Administration		
Engr. Robert C. Suguitan	Engr. Teresita Pantalla	
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Philippine Domestic Construction Board		
Engr. Sonia T. Valdeavilla	Engr. Leilani d.L. del Prado	
Ms. Marita M. Relampagos	Mr. Jose M. Canuto, Jr.	
Ms. Nenita F. Jaucian	Engr. Jake M. Velasco	

EVALUATION OF CONTRACTORS PERFORMANCE Section 12, Annex E of the Revised Implementing Rules and Regulations (IRR) of Republic Act No. 9184

1. SUBJECT AND SCOPE

All procuring entities implementing government infrastructure projects are mandated to evaluate the performance of their contractors using the NEDA-Approved Constructors Performance Evaluation System (CPES) Guidelines for the type of project being implemented. These guidelines cover all infrastructure projects awarded by the government regardless of contract amount and funding source. CPES evaluation shall be done during construction and upon completion of each government project. To ensure continuous implementation of CPES, all procuring entities concerned are required to include in their Projects' Engineering and Administrative Overhead Cost the budget for the implementation of CPES pursuant to NEDA Board Resolution No. 18 (s. 2002).

2. EVALUATION GUIDELINES

For project types which do not have specific CPES Guidelines, the procuring entities concerned may formulate and adopt their own implementing Guidelines specific to their needs provided the NEDA-INFRACOM poses no objections to their adoption, and provided further that said Guidelines are made known to all prospective bidders.

3. IMPLEMENTATION MECHANISM FOR CPES

All procuring entities implementing infrastructure projects are required to establish CPES Implementing Units (IUs) in their respective offices/agencies/corporations. The CPES Implementing Units shall be responsible for the implementation of the CPES Implementing guidelines, including, but not limited to, the supervision of Constructors Performance Evaluators (CPEs) to be accredited by the Construction Industry Authority of the Philippines (CIAP). The procuring entity's CPES IU shall be responsible for the following: a) pre-screening of applications of CPEs, b) funding for CPEs accreditation training and seminars; and c) yearly evaluation of CPEs.

4. SUBMISSION AND DISSEMINATION OF EVALUATION RESULTS

All procuring entities implementing CPES shall submit the results of their performance evaluation to the CIAP on a monthly basis or as often as necessary. The procuring entity's CPES-IU shall likewise develop and maintain a databank and disseminate the CPES reports to the concerned units/departments within the procuring entity and to other interested users.

5. UTILIZATION OF EVALUATION RESULTS

The CIAP shall consolidate all of the CPES evaluation results received and shall disseminate the same to all procuring entities concerned. The CPES rating and other information shall be used by the concerned government agencies for the following purposes: a) pre-qualification/eligibility screening of constructors; b) awarding of contracts; c) project monitoring and control; d) issuance of Certificate of Completion; e) policy formulation/review; f) industry planning; g) granting of Incentives/Awards, and, in adopting measure to further improve performance of contractors in the prosecution of government projects.



Republic of the Philippines NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY

NEDA sa Pasig, 12 Saint Josemarià Escrivà Drive, Ortigas Center, Pasig City 1605 P.O. Box 419, Greenhills • Tels. 631-0945 to 64 http://www.neda.gov.ph

NEDA BOARD COMMITTEE ON INFRASTRUCTURE (INFRACOM) Resolution No. 3, Series of 2011

A RESOLUTION APPROVING THE PROPOSED AMENDMENTS TO THE CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM (CPES) IMPLEMENTING GUIDELINES FOR INFRASTRUCTURE PROJECTS

WHEREAS, Section 12 of Annex E of the Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184, otherwise known as the Government Procurement Reform Act (GPRA), mandates all procuring entities implementing government infrastructure projects to evaluate the performance of their contractors using the NEDA-Approved CPES Guidelines for the type of project being implemented;

WHEREAS, The CPES Guidelines cover all infrastructure projects awarded by the government regardless of contract amount and funding source;

WHEREAS, In order to ensure continuous implementation of CPES, NEDA Board Resolution No. 18, Series of 2002 (dated 10 December 2002) was issued requiring all procuring entities concerned to include in their Projects' Engineering and Administrative Overhead Cost the budget for the implementation of CPES;

WHEREAS, In order to streamline the implementation and to broaden the coverage on the type of infrastructure projects being implemented by procuring entities, the CPES Guidelines were revised on two (2) occasions, 19 May 2005 and 27 August 2008;

WHEREAS, There is a need to amend the existing CPES Guidelines to be consistent with the Revised IRR of RA No. 9184, which took effect on 02 September 2009, to include a new checklist and workmanship for *mooring facilities for power barges* and *diesel power plants* developed by the National Power Corporation (NPC), and to further enhance the effectiveness of the CPES in ensuring the quality of infrastructure projects of the government;

WHEREAS, The proposed amendments to the CPES Guidelines was formulated by the Philippine Domestic Construction Board (PDCB) and consequently endorsed by the Construction Industry Authority of the Philippines (CIAP) Board per its Resolution No. 10, Series of 2011 (dated 25 March 2011) to the INFRACOM for approval pursuant to Section 12 of Annex E of the Revised IRR of RA No. 9184;

WHEREAS, The proposed amendments to the CPES Guidelines were presented by the CIAP and PDCB to the INFRACOM in its Joint Cabinet Committee and Technical Board Meeting on 13 September 2011;

WHEREAS, The INFRACOM, during the said meeting, posed no objections to proposed amendments to the CPES Guidelines except on the proposed amendments concerning the issuance of the certificate of completion (Section 12.5) and the blacklisting of constructors (Section 12.7);

CERTIFIED TRUE COPY

WHEREAS, the recommended revisions of the INFRACOM on the above-mentioned Sections have been considered and incorporated accordingly in the amendments hereto attached as Annex "1".

NOW, THEREFORE, Be it resolved, as it is hereby resolved, to approve, as the same is being approved, the proposed amendments to the CPES Implementing Guidelines for Infrastructure Projects for adoption by the government which shall take effect fifteen (15) days upon publication by the CIAP in a leading newspaper of nationwide coverage or the Official Gazette and furnishing the University of the Philippines (UP) Law Center a copy thereof.

UNANIMOUSLY APPROVED, 13 September 2011.

For the INFRACOM:

CAYETANO W. PADERANGA, JR. Secretary of Socioeconomic Planning As Chairman, INFRACOM

Attested by:

Jack LIBRADO F. QUITORIANO

Executive Director **INFRACOM** Secretariat CIAP Board Resolution No. 10, Series of 2011 Page 1 of 2



6168 8





CIAP BOARD RESOLUTION NO. 10 Series of 2011

ENDORSING AMENDMENTS TO THE CPES IMPLEMENTING GUIDELINES TO THE NATIONAL ECONOMIC AND DEVELOPMENT AUTHORITY (NEDA) BOARD'S COMMITTEE OF INFRASTRUCTURE (INFRACOM) FOR APPROVAL

WHEREAS, Section 12, Annex E of the Revised Implementing Rules and Regulations, (IRR) of RA 9184 or the Government Procurement Reform Act, requires all procuring entities implementing government infrastructure projects to evaluate the performance of their contractors using the NEDA-approved Constructors Performance Evaluation System (CPES) for the type of projects being implemented;

WHEREAS, the PDCB Board, during its 32nd Regular Board Meeting held on 29 July 2009, instructed the PDCB Secretariat to come up with a plan of actions to improve the implementation of CPES considering the issues and recommendations generated from the survey conducted by PDCB for this purpose;

WHEREAS, for this purpose, the CPES Inter-Agency Committee composed of representatives from the Departments of Public Works and Highways (DPWH), Transportation and Communications (DOTC), Science and Technology (DOST), Education (DepEd), the National Irrigation Administration (NIA), Philippine Tourism Authority (PTA), National Housing Authority (NHA), Bases Conversion and Development Authority (BCDA), Development Bank of the Philippines (DBP), University of the Philippines System (UP) and Polytechnic University of the Philippines (PUP) met on September 23 and November 20, 2009 and drafted proposals to amend the CPES Implementing Guidelines;

WHEREAS, the PDCB Board during its 45th Regular Meeting held on 22 February 2011, passed PDCB Resolution No. 03, Series of 2011, endorsing to the CIAP Board proposed amendments to the implementing Guidelines of CPES;

NOW, THEREFORE, the Construction Industry Authority of the Philippines, after due deliberations on its 59th Regular Meeting, **RESOLVES**, as it is hereby **RESOLVED**, to endorse to the National Economic and Development Authority (NEDA) Board Committee on Infrastructure (INFRACOM) for approval the proposed amendments to the Implementing Guidelines of the Constructors Performance Evaluation System (CPES) on Corrective Action Request (CAR), Blacklisting of Constructors, Uses of CPES Rating and Time hereto attached as Annex "1" and made an integral part of this Resolution.

UNANIMOUSLY APPROVED.

25 March 2011, Makati City

P BOARD: ZENAIDA C JISON MAGLAYA Undersectedary John (Representing DTI Secretary and CIAP Chairman Gregory L. Domingo)

CIAP Board Resolution No. 10, Series of 2011 Page 2 of 2

Attested by: JESUS L. MOTOOMULL

Acting Board Secretary

Republic of the Philippines) City of Makati)ss.

MAY 1 8 2011

SUBSCRIBED AND SWORN to before me, this _____ day of ______ 2011 affiant Jesus L. Motoomull, acting CIAP Board Secretary exhibiting his Community Tax Certificate No. CCI2010 05996607 issued on February 10, 2011 at Makati City

Doc. No.4 Page No. Book No. Series of 2011.

YOLANIA Y. VIL NOTARY PUBLIC UNTIL DECEMBER 31, 2011 PTR NO. 9653180: 0-11 09: CAVITE 3541:2-19-09:MANILI ROLL NO. 57483 18P ND. 783541: 2-19 MCLE COMPLIANCE NO. 0003210

Salient Features of Constructors Performance Evaluation System (CPES) Implementing Guidelines for Infrastructure Projects

Constructors Performance Evaluation System (CPES) – a system of grading the performance of a constructor for a specific kind of infrastructure projects using a set of criteria.

Mandate

Section 12, Annex E of the **<u>Revised</u>** Implementing Rules and Regulations (IRR) of R.A. 9184 or the Government Procurement Reform Act, requires all procuring entities implementing government infrastructure projects to evaluate the performance of their contractors using the NEDA-approved Constructors Performance Evaluation System (CPES) guidelines for the type of project being implemented. Section 12, likewise, requires all procuring entities to include in their Projects' Engineering and Administrative Overhead Cost, the budget for CPES implementation pursuant to NEDA Board Resolution No. 18 (s.2002); to establish CPES Implementing Units in their respective offices/agencies/corporations; and to use the CPES ratings for the following purposes: a) pre-qualification/eligibility screening; b) awarding of contracts; c) project monitoring & control; d) issuance of Certificate of Completion; e) policy formulation/review; f) industry planning; g) granting of incentives/awards; and in adopting measures to further improve performance of contractors in the prosecution of government projects.

Objectives

The CPES was developed in order to: a) establish a uniform set of criteria for rating the performance of constructors; b) develop a centralized base of information on performance rating of constructors for licensing, pre-qualification, quality improvement, and other purposes of government agencies, project owners and other interested parties; and c) contribute in ensuring that infrastructure projects are conformed with the specified requirements of project owners.

Persons Involved in CPES Implementation

- 1. CPES Implementing Unit (CPES IU) refers to the unit of an agency responsible for the implementation of CPES;
- Constructors Performance Evaluators (CPE) refers to an individual or group of evaluators accredited by CIAP's PDCB tasked to undertake performance evaluation of a constructor's project using the CPES Guidelines and/or evaluation requirements of the construction industry; and
- 3. CIAP's PDCB shall establish the CPES central databank and maintain linkages with concerned agencies to ensure timely and continuous submission of authenticated copies of accomplished CPES Evaluation Form and to facilitate information sharing among users of CPES data.

Aspects of Evaluation

1. **During Construction** (60% for Horizontal Projects such as Road, Bridge, Ports & Harbor, Irrigation and Flood Control, Water Supply and Sewerage, and Mooring Facilities for Power Barges and 70% for Vertical Projects such as Housing, Building, Power Transmission Line, Substation and Diesel Power Plant) – minimum of two (2) visits with the conduct of first visit when the actual project accomplishment is at least 30% except for projects with a duration of 90 calendar days and below which may be subjected to at least one (1) final visit.

2. **Upon Completion** (40% for Horizontal Projects and 30% for Vertical Projects) – final visit when the Implementing Office reported 100% completion.

Criteria for Evaluation

1. **During Construction** (60% for Horizontal Projects and 70% for Vertical Projects)

Criteria for Evaluation	Maximum Rating
Workmanship	0.40
Materials	0.30
Time	0.15
Facilities	0.03
Environmental, Safety and Health	0.07
Resources Deployment	0.05
	===
ΤΟΤΑΙ	1.00

2. **Upon Completion** (40% for Horizontal Projects and 30% for Vertical Projects)

Criteria for Evaluation	Maximum Rating
Workmanship Materials Time	0.50 0.20 0.30
ΤΟΤΑΙ	=== 1.00

- *Workmanship* refers to the quality and quantity of on-going and/or completed items of work, which are verifiable, in accordance to approved plans and specifications. In evaluating the constructors workmanship, spots comprising at least 10% for every on-going and/or completed items of work; which are verifiable, shall be randomly predetermined by the CPE prior to actual site inspection.
- *Materials* refers to the quality, quantity and type of construction materials and components supplied by the constructor or by entities other than the constructors as required in the contract.
- *Time* refers to the over-all accomplishment in accordance with the approved PERT/CPM or approved program of work.
- *Facilities* refers to those set-up by the constructor prior to actual project start as indicated in the contract.

- *Environmental, Safety and Health* refers to the constructors' ability to 1) comply with environmental protection requirements; and 2) observe the safety and health measures as specified in the contract.
- Resources Deployment refers to the ability of the constructor to deploy on time, based on the approved PERT/CPM or program of work, the required/pledged resources such as materials, equipment in good running condition and manpower.

Summary of the 3rd Amendments

	Section	Features
1. 2.	Mandate Section 1 – General	Modified "Implementing Rules and Regulations, Part A (IRR-A)" to "Revised Implementing Rules and Regulations (IRR)" to make it consistent with the Revised IRR of RA 9184.
3.	Section 6.1 – During Construction	
4.	Section 6.1 – Upon Completion	Included the new checklists for workmanship for mooring facilities for power barges and diesel power plant projects.
5.	Section 7.1.a – Workmanship	
6.	Section 7.1.c - Time	Provided a formula for the computation of score for Time – During Construction for contracts with no materials or materials are supplied by the owner.
7.	Section 7.2.c - Time	Provided a formula for the computation of score for Time if the project is delayed to harmonize with Section III.a.2.b of the Guidelines on Termination of Contracts, and Section 8, Item 8.4 – Liquidated Damages on Annex E of the IRR of RA 9184.
		Provided a formula for the computation of score for Time – Upon Completion for contracts with no materials or materials are supplied by the owner.
8.	Section 11.4 – CPES Checklists	Included the new checklists for workmanship for mooring facilities for power barges and diesel power plant projects.
9.	Section 12.2 – Agency Shortlist	Revised the existing Sections to be consistent with
10.	Section 12.3 – Post Qualification	the Sections in the Revised IRR of RA 9184.
11.	Section 12.5 – Issuance	Provided a provision to ensure that contractor

of Certificate of Completion and/or Acceptance	complied with the Corrective Action Requests (CARs) issued by the CPES Evaluators before the agency's Implementing Office issue Certificate of Completion.
12. Section 12.6 – Blacklisting of Constructors	Deleted the word "final" in the CPES final rating and specify Section 4.2f of the GPPB Guidelines for Blacklisting of Constructors.

CONSTRUCTORS' PERFORMANCE EVALUATION SYSTEM (CPES) IMPLEMENTING GUIDELINES FOR INFRASTRUCTURE PROJECTS¹

1. GENERAL

Section 12, Annex E of the **Revised** Implementing Rules and Regulation (IRR) of R.A. 9184 or the Government Procurement Reform Act, requires all procuring entities implementing government infrastructure projects to evaluate the performance of their contractors using the NEDA-approved Constructors Performance Evaluation System (CPES) guidelines for the type of project being implemented. Section 12, likewise, requires all procuring entities to include in their Projects' Engineering and Administrative Overhead Cost, the budget for CPES implementation pursuant to NEDA Board Resolution No. 18 (s. 2002); to establish CPES Implementing Units in their respective offices/agencies/corporations; and to use the CPES ratings for the following purposes: a) pre-qualification/eligibility screening; b) awarding of contracts; c) project monitoring & control; d) issuance of Certificate of Completion; e) policy formulation/review; f) industry planning; g) granting of incentives/awards; and in adopting measures to further improve performance of contractors in the prosecution of government projects.

2. OBJECTIVES

The CPES was developed in order to:

- 2.1 Establish a uniform set of criteria for rating the performance of constructors;
- 2.2 Develop a centralized base of information on performance rating of constructors for licensing, pre-qualification, quality improvement, and other purposes of government agencies, project owners, financing and insurance companies and other interested parties; and
- 2.3 Contribute in ensuring that infrastructure projects conform with the specified requirements of project owners.

3. SCOPE

The guidelines shall be used in the performance evaluation of constructors undertaking government infrastructure projects as follows:

- 3.1 Local constructors licensed by and registered with the Philippine Contractors Accreditation Board (PCAB);
- 3.2 Foreign constructors licensed by the PCAB; and
- 3.3 Joint ventures and consortia licensed by the PCAB.

Full text of CPES Implementing Guidelines with amendments (in bold and underlined text) as approved by the NEDA INFRACOM under Resolution No. 03, Series of 2011.

4. DEFINITION OF TERMS

- 4.1 **CIAP** refers to the Construction Industry Authority of the Philippines, an attached agency of the Department of Trade & Industry created by Presidential Decree (PD) No. 1746 to promote, accelerate, and regulate the growth and development of the construction industry.
- 4.2 **Constructor** deemed synonymous with the term builder and hence, any entity including joint venture and consortium licensed by PCAB who undertakes or purports to have the capacity to undertake or submits a bid for infrastructure projects.
- 4.3 **Constructors' Performance Evaluation System (CPES)** a system of grading the performance of a constructor for a specific kind of projects using a set of criteria, approved by the NEDA-INFRACOM.
- 4.4 **Constructors' Performance Evaluator/s (CPE)** an individual or group of evaluators accredited by CIAP tasked to undertake performance evaluation of a constructor's project using the CPES guidelines and/or evaluation requirements of the construction industry.
- 4.5 **Corrective Action Plan (CAP)** is a plan of action proposed by the constructor to the concerned agency's implementing office which is aimed to correct the non-conformance findings on the project based on the CAR issued by the CPE(s). The CAP shall include the constructor's specific actions and timetable to immediately correct the findings subject to the approval by the head of the concerned implementing office or his authorized representative.
- 4.6 **Corrective Action Request (CAR)** a request form wherein the CPE records his/her validated finding(s) including corresponding location(s) which do not conform to any of the checklist indicators requiring immediate actions by the constructor.
- 4.7 **CPES Implementing Unit (IU)** the unit of an agency responsible for the implementation of CPES.
- 4.8 **Defects Liability Period** shall be one (1) year from project completion up to final acceptance by the Government.
- 4.9 **During Construction** reckoned from the time the construction is to start as stated in the Notice to Proceed (NTP) up to substantial completion of the project.
- 4.10 **GPPB** refers to the Government Procurement Policy Board established under Section 63, Article XX of RA 9184.
- 4.11 **Head of the Procuring Entity** refers to: (i) the head of the agency or body, or his duly authorized official, for NGAs and the constitutional commissions or offices, and branches of government; (ii) the governing board or its duly authorized official, for GOCCs, GFIs and SUCs; or (iii) the local chief executive, for LGUs: Provided, however, that in an agency, department, or office where the procurement is

decentralized, the Head of each decentralized unit shall be considered as the head of the procuring entity subject to the limitations and authority delegated by the head of the agency, department, or office.

- 4.12 **Implementing Office (IO) -** refer to the unit(s) or department(s) within the agency assigned to supervise the implementation of infrastructure projects.
- 4.13 **INFRACOM** refers to the NEDA Board Committee on Infrastructure created under Executive Order No. 230, Series of 1987.
- 4.14 **Infrastructure Projects** refers to construction, improvement or rehabilitation of roads and highways, airports and air navigation facilities, railways, ports, flood control and drainage, water supply and sewerage, irrigation systems, dams, buildings, communication facilities, dredging and reclamation, power generating plants, power transmission and distribution facilities and other related construction projects.
- 4.15 **NEDA** refers to the National Economic and Development Authority.
- 4.16 **PCAB** refers to the Philippine Contractors Accreditation Board, one of the implementing Boards of the CIAP which is tasked among others, to issue, deny, suspend, or revoke licenses of construction contractors by virtue of Republic Act 4566, as amended by PD 1746.
- 4.17 **PDCB** refers to the Philippine Domestic Construction Board, one of the implementing Boards of the CIAP which is tasked to formulate, recommend and implement policies, guidelines, plans and programs for the efficient implementation of public and private construction in the country.
- 4.18 **Percentage Weight -** the weight for a specific item of work, computed by dividing its cost by the total contract amount multiplied by one hundred (100).
- 4.19 **Preventive Action Plan -** is a plan of action proposed by the constructor to the concerned agency's implementing office which is aimed to prevent the recurrence of non-conformance findings on his on-going and/or future projects.
- 4.20 **Rate -** the score for each item of work evaluated, derived using the criteria in evaluating the workmanship and materials aspects.
- 4.21 **Relative Percentage Weight** refers to the weight of an item of work to be rated computed by dividing the percentage weight of the item of work to be rated by the sum of the percentage weight of all items.
- 4.22 **Relative Rate** the product of the relative percentage weight and the rate for each item of work.

- 4.23 **Spot -** an area selected from the identified location of on-going and/or completed items of work which will be subject for evaluation/inspection.
- 4.24 **Upon Completion** refers to 100% completion of the project as reported by the Implementing Office. Completion of project on time includes demobilization and final clean-up.

5. FUNCTIONAL/DEPLOYMENT FLOWCHART

The sequential activities to be undertaken by the CPES Implementing Unit (IU), Constructors Performance Evaluators (CPE), Constructor. Implementing Office (IO), and Construction Industry Authority of the Philippines (CIAP) are presented hereunder. The CPES Functional/Deployment Flowchart is illustrated in Annex 1.

5.1 Listing of Projects by the CPES-IU

The CPES-IU shall prepare the list of all infrastructure projects of the agency which have been issued Notice to Proceed (NTP) on a monthly basis upon receipt of documents "a" and "b" as listed in Section 10.1 hereof from the Implementing Offices concerned. Thereafter, the CPES-IU shall determine the frequency and tentative date(s) of the evaluation to be undertaken by the CPE for each project based on the following parameters:

- a. During Construction Except for those projects with a duration of 90 calendar days and below which may be subjected to at least one (1) visit, all projects shall be subjected to a minimum of two (2) evaluations to be performed by the CPE. The number of evaluations beyond the prescribed minimum shall be determined by the CPES-IU based on the size, nature and complexity of the project and shall be subject to approval by the proper authorities within the agency. The first evaluation shall be performed when the project is at least thirty percent (30%) physically complete or as maybe required by the CPES-IU using the S-curve or other appropriate means to determine whether there is substantial work completed for evaluation.
- b. Upon Completion only one evaluation shall be performed by the CPE right after the Implementing Office (IO) reports one hundred percent (100%) completion of the project.

5.2 **Consolidation and Review of Documents by the CPES-IU**

Prior to the tentative evaluation date(s), the CPES-IU shall require the IO concerned to submit copies of documents "c" to "f" as listed in Section 10.1 hereof and consolidate all of the submitted project documents for subsequent use of the CPE. The punch list listed as document "g" shall form part of the documentary requirement for the "upon completion" evaluation only. Based on the status of the project, the CPES-IU shall determine the most appropriate evaluation date(s)

and fills out the CPES Evaluation Forms to be used for such evaluation.

5.3 Assignment of CPE and Provision of Documents by the CPES-IU

The CPES-IU shall coordinate and schedule the most appropriate evaluation date(s) of the CPE. Also, the CPES-IU shall provide the CPE with all the necessary documents for evaluation. The CPE shall be selected by the CPES-IU from the evaluators accredited by CIAP.

5.4 Review of CPES-IU - Supplied Documents and Pre-determination of Spots for Evaluation by the CPE

The CPE upon receipt of the documents supplied by the CPES-IU shall review the same and enter pertinent data (e.g. standards and tolerances) in the appropriate spaces provided for in the CPES checklist. The CPE shall also select spots randomly for evaluation prior to site inspection.

5.5 Finalization of Evaluation Date(s) and Notification of Agency's and Constructor's Project Engineer and/or Authorized Representative

The CPES-IU shall finalize the date(s) of actual evaluation based on latest project updates provided by the concerned IO and the agreements made with the CPE. The CPES-IU shall, likewise, notify the agency's and constructor's project engineer and/or Authorized Representative before the actual evaluation date(s) within 24 hours for projects located in urban areas where means of communications are readily available and three (3) working days for projects located in remote areas. The presence of constructors and/or its authorized representatives is a requirement during CPES project site evaluation.

5.6 Notification of CPE, CPE Resource Persons/Witnesses by the CPES-IU.

The CPES-IU shall inform the CPE and CPE resource persons/witnesses as enumerated in Section 9.3 hereof of the evaluation date(s). The CPES-IU shall request their presence on said date(s) and specified venue. The resource persons/witnesses shall provide necessary information/inputs to the CPE.

5.7 **Consolidation and Submission of Documents by Constructor's Project Engineer and/or Authorized Representative**

The constructor's project engineer shall consolidate documents "a" & "b" as listed in Section 10.2 hereof and present the same during the on-site pre-evaluation meeting to be conducted by the CPE.

5.8 **Conduct of On-site Pre-Evaluation Meeting among CPE, Resource Persons and Witnesses**

Prior actual evaluation. the CPE and its to resource persons/witnesses shall meet to discuss the following: purpose and mechanics of CPES; scope and status of each work item (percentage of accomplishment) to be evaluated; documents supplied by the constructor's project engineer; and other factors affecting the implementation of the project. Based on said discussion, the CPE shall update/validate all of the standards/tolerances on relevant checklists to be used.

5.9 **Conduct of Actual Evaluation by CPE**

Based on the pre-determined spots to be evaluated, the CPE and its resource persons/witnesses, shall undertake the necessary evaluation and records findings in relevant checklists. The CPE may list additional indicators in relevant checklists if needed and corresponding findings. The CPE shall also take photos and/or videos to substantiate its findings.

Should there be a need to assess the constructor's performance during the defects liability period, the CPES-IU may request the CPE to undertake such evaluation. The evaluation results shall be submitted by the CPE to the CPES-IU and/or concerned units of the agency.

5.10 **Conduct of Post-Evaluation Meeting**

a. Validation of Findings by CPE

The CPE leader shall convene a meeting to be attended by the CPE members, resource persons and witnesses to deliberate on the findings and validate the causes for such.

b. Finalization of Evaluation Rating and CAR(s) by CPE

Based on validated findings, the CPE shall meet to finalize its evaluation rating as well as CAR(s), if any, using relevant forms. Each CAR, however, shall be prepared in duplicate copies.

c. Presentation /Issuance of Rating and CAR(s) by CPE

The CPE leader shall reconvene the meeting with the CPE members, resource persons and witnesses in order for him to present the evaluation rating and issue the duplicate copies of the CAR(s) to the constructor's project engineer.

d. Agreement on Rating and CAR(s) by Constructor's Project Engineer and/or Authorized Representative

If in agreement with the ratings and CAR(s), the Constructor's project engineer and/or Authorized Representative shall acknowledge the relevant documents. Thereafter, said engineer and/or Authorized Representative shall be given duplicate copies of the CAR(s). But in case of disagreements with the rating or any

of the CAR(s), the CPE leader shall inform said engineer and/or Authorized Representative that these shall be settled by an appropriate adjudicating body to be designated by the agency. In cases where the constructor and/or its representatives are absent during the CPES project evaluation, even after advance and proper notification, the CPES Rating of the constructor will be considered final and binding.

e. Monitoring of Constructor's Compliance on CAR by CPES-IU

To ensure and check constructor's compliance on CAR, the CPES-IU shall require the government project engineer to submit a Monitoring Report to the concerned Implementing Office, copy furnished the CPES-IU, to validate compliance with the CAR. Emphasis should be on projects with "Remove and Replace" proposed CAP and taking into consideration the pledged date of corrective action by the constructor. If possible, photos shall be attached to provide evidence on the works undertaken.

5.11 Submission of CPES Reports to CPES-IU

Immediately after the completion of the evaluation, the CPE leader shall submit to the CPES-IU the original copies of the accomplished CPES Evaluation Form (cover sheet, rating sheet, checklists and summary sheet), Constructor's Performance Summary Report and CAR(s). The CPE leader shall, likewise, prepare a report indicating the documents to be submitted to the agency's designated adjudicating body, in case when there is appeal made by the constructor.

5.12 **Preparation and Implementation of Corrective Action Plan (CAP)** and Preventive Action Plan (PAP) by the Constructor

Based on the non-conformance findings prepared by CPE, the constructor shall prepare and submit the corresponding CAP to the Head of the IO for his assessment and subsequent approval. If the CAP is approved by the Head of the Procuring Entity, the constructor's Project Engineer (PE) and/or Authorized Representative shall implement the plan which shall be monitored by the Project Owner's PE. The concerned IO shall monitor the constructor's implementation of all the recommendations made by the CPE on the noted non-conformances. This shall be supported by videos or photos before, during and after rectification has been made. After the constructor has satisfactorily completed all the corrections made, the IO shall submit the reports to the CPES-IU. However, if CAP is disapproved, the constructor's PE has to submit another CAP proposal for approval by the Head of the Procuring Entity. The constructor has to submit PAP proposal if similar findings by the CPE occurred twice or more. The process of PAP's approval is similar to CAP's.

5.13 Review of CPES Rating, Preparation of Reports, and Dissemination of Information by CPES - IU

The CPES-IU, upon receipt of the CPES Evaluation Report for a particular project shall review the completeness, accuracy and consistency of its contents. Should the contents be in order, the CPES-IU shall submit the reports to the CIAP, concerned IO and other departments/units which need the information.

After the required site visits for each project have been completed, the CPES-IU shall issue a CPES Rating to the constructor upon satisfactory completion of the necessary corrective actions listed in the CAR(s).

The CPES-IU shall submit to CIAP's PDCB an authenticated photocopy of the Constructor's Performance Summary Report within thirty (30) days after evaluation; except for implementing agencies evaluating more than one hundred (100) infrastructure projects which may submit the report within two (2) months after evaluation.

5.14 Databanking by CPES-IU and CIAP

All original copies of the CPES rating sheets shall be filed and pertinent data stored in a computer by the CPES-IU for easy access and processing of information in the future. This unit shall serve as the agency's databank for all CPES information and documents pertaining to its projects and constructors.

CIAP's PDCB, on the other hand, shall establish the CPES central data bank and maintain linkages with concerned agencies to ensure timely and continuous submission of authenticated copies of accomplished Constructor's Performance Summary Report and to facilitate information sharing among users of CPES data.

6. ASPECTS OF EVALUATION

The performance of the constructor shall be evaluated "during construction" and "upon completion" of a project. The assigned weights and aspects to be evaluated "during construction" and "upon completion" shall vary depending on the kind of project as follows:

6.1 During Construction - with a weight of 60% for horizontal projects, such as road, bridge, port and harbor, irrigation and flood control, water supply and sewerage, <u>mooring facilities for power barges</u>, etc., and 70% for vertical projects, such as housing and building, power transmission line, substation, <u>and diesel power plant</u>, etc., the maximum weight for the following criteria shall be:

<u>Criteria</u>	Maximum Rating
Workmanship	0.40
Materials	0.30
Time	0.15

Facilities	0.03
Environmental, Safety and Health (ESH)	0.07
Resources Deployment	<u>0.05</u>
Total	<u>1.00</u>

For contracts which do not involve the supply of construction materials or where the materials are supplied by the owner/agency, the maximum weights shall be:

<u>Criteria</u>	Maximum Rating
Workmanship	0.40
Time	0.20
Facilities	0.05
Environmental, Safety and Health (ESH)	0.10
Resources Deployment	<u>0.25</u>
Total	<u>1.00</u>

For projects which include both horizontal and vertical structures, the weight to be followed shall be that of the higher cost component of the project.

The assigned weight for vertical projects is higher than that for horizontal projects in view of the complexity of the nature of the former projects. In general, the evaluation "during construction" is assigned higher weight to ensure that constructors immediately attain satisfactory performance and maintain it until substantial work has been accomplished.

6.2 Upon Completion - with a weight of 40% for horizontal projects such as road, bridge, port and harbor, irrigation and flood control, water supply and sewerage, mooring facilities for power barges, etc., and 30% for vertical projects such as housing and building, power transmission line, substation, and diesel power plant, etc., the maximum weight for the following criteria shall be:

<u>Criteria</u>	Maximum Rating
Workmanship	0.50
Materials	0.20
Time	0.30
Total	1.00

For contracts which do not involve the supply of construction materials or where the materials are supplied by the owner/agency, the maximum weights shall be:

<u>Criteria</u>	Maximum Rating
Workmanship	0.50
Time	<u>0.50</u>
Total	<u>1.00</u>

7. CRITERIA FOR EVALUATION

7.1 **During Construction**

a. Workmanship [Maximum Rating of 0.40]

Workmanship refers to the quality and quantity of on-going and/or completed items of work, which are verifiable, in accordance to approved plans and specifications. This aspect covers the utilization of the correct methodology needed in producing the desired quantity and quality of work. In rating this aspect, efficiency of methodology shall be considered.

In assessing/evaluating workmanship, the following procedures shall be observed: a) before going to the project site, the CPE shall identify the location of on-going and/or completed items of works based on the approved plan, and b) from the location identified, the CPEs shall select spots randomly for evaluation. The combined area of spots shall not be less than 10% of the on-going and/or completed items of works. Checklists for Workmanship for roads and bridges, housing and building, ports and harbor, irrigation, flood control, power transmission line, substation, mooring facilities for power barges and diesel power plant projects are presented in Annex 2. Refer to Section 11.4a hereof in determining the rating for workmanship.

In case there are on-going or completed additional works or variation orders, which are verifiable, at the time of inspection, these shall be rated if said variations were approved by the Head of the Procuring Entity.

b. Materials [Maximum Rating of 0.30]

To impress upon the constructors the importance of materials in producing the desired quality of an item of work, this aspect is viewed separately from workmanship as another factor in assessing performance.

Materials means the quality, quantity and type of construction materials including asphalt and ready-mixed concrete, and components supplied by entities other than the constructors as required in the contract. The constructor gets the full rating of 0.30 for materials in a particular item of work if he complies with all the applicable indicators in the checklist for materials in Annex 3. Refer to Section 11.4b in rating materials.

Alternative construction materials used by the constructor may also be considered by the CPE in rating the materials aspect, provided there are supporting documents consisting of the approval by the owner's authorized personnel and test results. If a work item does not require the use of materials (e.g., demolition of existing structure, excavation, or scraping), the constructor automatically gets 0.30 in this aspect provided he gets the full rating in the workmanship aspect for such work item. However, if the particular item of work was not done or inadequately complied with, the rating for material shall be 0.00. Furthermore, when a particular item of work was not rated since it is no longer visible and cannot be verified, the material aspect for such item of work shall not be rated.

Materials for on-going or completed additional works, which are verifiable, at the time of inspection shall also be rated provided said variations were approved by the Head of the Procuring Entity.

Unlike the workmanship and materials aspects which are evaluated on a per item of work, the following four (4) aspects shall be appraised during each visit without particular attention to the work items completed/being completed by the constructor.

c. Time [Maximum Rating of 0.15]

This refers to the over-all accomplishment in accordance with the approved PERT/CPM or approved program of work. The constructor gets a full rating of <u>0.15</u> if he is on or ahead of schedule but gets a lower score if there is any delay or slippage attributable to his fault. The score shall depend on the percentage of delay as reflected in the checklist for time aspect presented in Annex 4. Refer to Section 11.4c in rating the time aspect.

For contracts with no materials or materials are supplied by the owner, the computation of score for Time aspect is presented in Annex 4 – For contracts with no materials or materials are supplied by the owner.

In case there are on-going or completed additional works or variation orders, time would be rated based on the effective PERT CPM and S-Curve approved by the Head of the Procuring Entity. In case it has not yet been approved by the Head of the Procuring Entity, time shall be rated based on the latest approved PERT CPM and S-curve.

d. Facilities [Maximum Rating of 0.03]

The facilities referred to are those set up by the constructor prior to the actual start of the project and maintained during the construction period. This aspect covers the provision of project signboard, sanitary and/or field and on-site office facilities which includes the surveying, transport and communication, testing and other equipment, appliances, utensils and other items as required in the contract. The constructor merits a full rating of <u>0.03</u> if he complies with the indicators enumerated in the checklist for facilities presented in Annex 5. Refer to Section 11.4d in rating this aspect.

In case the contract does not indicate any provision for camp facilities, to be checked are the sanitary, field and on-site office

facilities provided by the constructor for its technical staff and workers.

e. Environmental, Safety and Health (ESH) [Maximum Rating of 0.07]

The constructor must learn to care for his environment and must try his best not to pollute during project prosecution. He must observe safety and health measures as required in the general and/or special contract provisions, and safeguard the lives of his workers and those of the general public. The constructor gets a full rating of 0.07 if he complies with the applicable indicators enumerated in the checklist for ESH presented in Annex 6. Refer to Section 11.4e in rating this aspect.

f. Resources Deployment [Maximum Rating of 0.05]

In this aspect, to be evaluated is the constructor's ability to deploy on time, based on the approved PERT/CPM or program of work, the required/pledged facilities and resources such as materials, equipment in good running condition and manpower. Refer to Section 11.4f in rating this aspect. Resources deployment checklist is presented in Annex 7.

Should there be on-going additional works or variation orders at the time of inspection not yet covered by approved variation order, the provision on this matter as stated in Section 7.1-c shall likewise be adopted.

7.2 Upon Completion

a. Workmanship [Maximum Rating of 0.50]

Workmanship is one of the three aspects to be evaluated when the project is one hundred percent (100%) complete as reported by the IO.

The punch lists prepared by the inspectorate team may serve as additional reference for project evaluation. The constructor shall merit a full rating of 0.50 for a particular item of work if he satisfies the applicable indicators in the checklist. Spots comprising not less than ten percent (10%) of the entire project shall be the sample size used in evaluating this aspect.

b. Materials [Maximum Rating of 0.20]

In rating the aspect of material, a full rating of 0.20 shall be given to materials in a particular item of work if he complies with applicable indicators in the checklist for materials in Annex 3.

If a work item does not require the use of materials (e.g. demolition of existing structure, excavation, or scraping), the constructor automatically gets 0.20 in this aspect provided he

gets the full rating in the workmanship aspect for such work item. However, if the particular item of work was not done or inadequately complied with, the rating for material shall be <u>0.00</u>. Furthermore, when a particular item of work was not rated since it is no longer visible and cannot be verified, the material aspect for such item of work shall not be rated.

c. Time [Maximum Rating of 0.30]

In rating the aspect of time, comparison shall be made between the approved contract completion time including time extensions granted and actual project completion time. Completion of a project on time includes demobilization and final clean-up.

The constructor shall get a full rating of 0.30 if he is on or ahead of schedule but if the project is delayed due to his fault, he gets <u>a</u> lower score. The score shall depend on the percentage of delay as shown in Annex 4 – Upon Completion.

For contracts with no materials or materials are supplied by the owner, the computation of score for Time aspect is presented in Annex 4 – For contracts with no materials or materials are supplied by the owner for Upon Completion phase.

8. CPES IMPLEMENTING UNIT

To ensure the effective implementation of CPES, each government agency undertaking infrastructure projects shall either create an independent unit or integrate the CPES functions in an existing unit with similar functions which shall act as the CPES-IU. Ideally, the CPES-IU should be under the office of agency head but it could also be attached to the agency's audit or monitoring group. Its organization and functions are as follows:

8.1 Organization

The CPES-IU shall be composed of the following:

- a. Unit supervisor shall act as the head of the unit;
- b. Technical personnel shall assist the head in the performance of the unit's technical functions; and
- c. Administrative personnel shall perform all the administrative and coordinative requirements of the unit.

8.2 Functions

The CPES-IU shall have technical and administrative/coordinative functions as follows:

a. Technical

- a.1 Undertake accreditation processes which consist of: a) prescreening and endorsement of application of CPE applicants; and b) facilitate conduct of CPES required training and seminars;
- a.2 Undertake yearly performance evaluation of CPEs.
- a.3 Update CPE members on latest developments and other technical functions.
- a.4 Orient resource persons/witnesses.
- a.5 Review and prepare CPES reports and recommend appropriate actions based on the CPES Rating; and
- a.6 Assign its accredited CPE staff member/s to act as individual CPE/s or member/s of the CPE group/team as required.
- b. Administrative/Coordinative
 - b.1 List all projects to be subjected to evaluation using CPES and identify/assign personnel to compose the CPE.
 - b.2 Schedule orientation-seminar on CPES for in-house CPE members and resource persons/witnesses.
 - b.3 Generate latest project status, schedule CPE site visits, coordinate visit with the Head of the Procuring Entity and constructor concerned, and file/safe keep all CPES related documents.
 - b.4 Provide the CPE with CPES documents implementing guidelines and forms, and prepare CPE travel documents as required.
 - b.5 Data banking and dissemination of CPES reports and documents to all concerned users within the agency, CIAP's Philippine Domestic Construction Board (PDCB), and other interested users.

To ensure that constructors understand the mechanics of CPES and how they are rated, their Authorized Managing Officers (AMOs) or their duly authorized Sustaining Technical Employees (STEs) shall be required to undergo a one-time Orientation Seminar on CPES to be conducted by the CIAP-PDCB prior to contract implementation.

9. CONSTRUCTOR PERFORMANCE EVALUATOR/S (CPE)

Each government agency shall have the option of tapping in-house staff, third party evaluators or combination of both either as group/team or individual to compose the CPE. For those agencies whose CPE will be composed of in-house evaluators only or combination of in-house and third party evaluators, such in-house evaluators could either be assigned on a

permanent or ad-hoc basis. It is necessary that all CPE members are not in any way involved with the project to be evaluated in order for them to give an objective and unbiased evaluation of the constructor's performance.

9.1 Minimum Qualification of CPES Evaluators

All CPES evaluators shall be accredited by the CIAP based on the minimum qualifications as follows:

- a. Licensed Engineer or Architect.
- b. Must have at least 5 years experience in the actual implementation of project.
- c. In full enjoyment of his/her civil rights, must not have been convicted of a crime involving moral turpitude or of any other crime for which the penalty imposed upon him/her is over six (6) months of imprisonment.
- d. Willing to undergo all screening requirements and accreditation course for CPES evaluators to be conducted by the CIAP's PDCB or any of its accredited training institutions.

Professionals who have substantially complied with the minimum requirements stated in items "a" to "c" above, and who by reason of trainings or experiences in construction, conducted lectures on CPES accreditation courses upon invitation by the CIAP's PDCB are automatically accredited as CPES evaluators.

9.2 **Procedure and Requirements for Renewal of CPE Accreditation**

CPE accreditation shall be valid for a period of three (3) years from the date of accreditation. An application for renewal of CPE accreditation may be filed with the CIAP's PDCB not later than two (2) years from expiry date.

The CPES-IU shall endorse the renewal application based on the performance of the CPE. For renewal of CPE Accreditation, it is required that a CPE:

- a. be endorsed by the CPES Implementing Unit Head; and
- b. must have evaluated at least one (1) infrastructure project.

In cases where the CPEs did not have the chance to evaluate projects due to limited number of infrastructure projects of the agency, the following options may be applied:

Option 1

Require CPE to attend Enhancement/Orientation Seminar conducted by the Agency CPES-IU in coordination with PDCB;

Option 2

CPE applying for renewal of accreditation must have been involved in various CPES related activities such as but not limited to:

- a. Agency representative tasked to formulate/amend the CPES Guidelines, checklist, etc.;
- b. Resource person during seminars conducted on CPES; and
- c. Served as CPE for other agencies.

9.3 **Composition of CPES Evaluators**

The composition of each CPE, individual or group, who have voting power, shall be:

Options	In-house CPE	Third Party CPE	Combination of In- House and Third Party CPE
Group or Team	One (1) CPE occupying supervisory position who shall act as the CPE leader.	Two (2) or more CPEs from other agencies and not directly involved with the project to be evaluated.	One (1) CPE occupying supervisory position.
	One (1) or more CPE/s as members.		One (1) or more CPE/s from other agencies, and not directly involved with the project to be evaluated.
Individual	One (1) CPE not directly involved with the project.	One (1) CPE from other agencies, and not directly involved with the project to be evaluated.	

The resource persons/witnesses, who have no voting power, shall include the following:

RESOURCE PERSONS/WITNESSES

- one (1) or more Owner's and Constructor's Project Engineer and/or Consultant assigned in the project to act as resource person(s);
- one (1) (Optional) Representative from any of the CIAP accredited constructors' associations nearest to the project site, knowledgeable in project implementation to act as witness;
- one (1) (Optional) Representative from the Local Government Unit (LGU) where the project is located to act as witness;
- one (1) (Optional) Representative from the end-user (e.g. social, religious, or civic organization).

10. DOCUMENTS REQUIRED FOR EVALUATION

The CPE should have the following documents for its review and reference during actual evaluation which shall be supplied by the IO and the constructor's project engineer:

10.1 **IO-Supplied Documents**

- a. Contract documents: approved contract agreement, contract drawing, general and special/local provisions including plans and specifications, method of construction, safety and health measures
- b. Approved constructor's construction program: CPM work schedule or bar chart, materials/manpower schedule, equipment schedule, organizational chart, financial chart such as S-curve or cash flow
- c. Constructor's statistical reports: physical progress/status, equipment and manpower schedules based on the latest approved PERT/CPM
- d. Materials testing procedures, records of tests and results, materials quality control program
- e. Constructor's operational set-up: general lay-out of facilities, project office and quarters, warehouse, shops for repair/maintenance/carpentry/rebar
- f. List of subcontractors or suppliers
- g. Punch list (for final visit upon completion)
- h. Relevant checklists, CPES evaluation form and cover sheet

10.2 **Constructor's Project Engineer-Supplied Documents**

- a. Project log book
- b. Updated records of tests/results and materials quality control program monitoring reports
- c. Other related reports

11. CPES EVALUATION FORMS

The CPES evaluation form and cover sheet to be used by the CPE is contained in Annex 8 and this shall be reproduced by the CPES-IU for distribution to all CPE(s) concerned prior to site visits.

11.1 Part 1 - Cover Sheet

Part 1 of the form is the cover sheet, which is to be filled up by the owner's project engineer contains the following general information: name and address of constructor; name and address of owner/authorized managing officer; valid license number; ARC category; nationality of constructor; project name, location; funding source; name of constructor's project manager and materials engineer; name of government construction manager; original and revised contract amount and duration; scheduled date of project start and actual date started; and scheduled date of project completion and actual date completed (number of days advance/delayed are also indicated). Other necessary information pertaining to the project may also be included on this portion.

11.2 **Part II - Rating Sheet During Construction**

The CPE shall use Part II of the form during the "construction phase" first and second visits, respectively. In case the CPE intends to

conduct more than two (2) visits during this phase, Part II of the form may be reproduced to correspond to the additional number of visits it shall make. Part III shall be used for the final visit.

For Part II, the CPE shall list the items of work evaluated during the visit, their corresponding percentage weights and relative percentage weights, and their rates and relative rates for both workmanship and material aspects. As defined in Section 4 hereof, the percentage weight of a particular item of work subjected to evaluation shall be computed by dividing its total cost by the total contract amount while the relative percentage weight of said item of work shall be computed by dividing its percentage weight by the sum of the percentage weight of all evaluated items of work. The relative rate for each item of work for both aspects, which shall be computed by multiplying the rate for each item of work with corresponding relative percentage weight, shall be added and later on reflected in the Summary of Ratings along with ratings for the other aspects covered.

However, in case there are on-going or completed additional works not yet covered by an approved variation order or request for time extension which is not yet approved during the visit, the CPE using a separate form shall fill up all relevant portions such as the Rate column for the workmanship and material aspects, time and resource deployment. The ratings therewith shall be used in updating the appropriate form, either Part II or III, only upon approval of the variation order or time extension.

For Part II, the CPE after completing the Summary of Ratings shall compute the "During Construction" Weighted Rating (A). This can be computed by adding all of the Ratings obtained for each visit during construction phase, dividing the sum of Ratings by the number of visits made, and then multiplying the quotient by sixty (60%) for horizontal projects or seventy (70%) for vertical projects.

11.3 Part III - Rating Sheet Upon Completion and Summary Sheet

For Part III, which will be used for the "upon completion" visit, the CPE shall list the items of work evaluated and their corresponding percentage weights and relative percentage weights, and their rates and relative rates for the workmanship aspect. After adding all of the relative rates, the sum along with the ratings for the time and materials aspects shall be reflected in the Summary of Ratings.

To determine the "upon completion" Weighted Rating (B), the CPE shall multiply the Total Rating by forty percent (40%) for horizontal projects and thirty percent (30%) for vertical projects. The Over-all Rating, on the other hand, shall be computed by adding the "during construction" Weighted Rating (A) and "upon completion" Weighted Rating (B) and multiply the sum by one hundred percent (100%).

The CPE head and members, resource persons/and witnesses present during each visit shall always affix their signature in the spaces provided for in Parts II and III. After the over-all CPES rating of the constructor has been computed, this shall be reflected in the box marked "Qualitative Description" based on the range of constructor's CPES rating for the specific project undertaken. Annex 8 shall be revised by the CIAP's PDCB to indicate the new ranges of CPES ratings and their equivalent qualitative descriptions, as follows:

CPES Qualitative	Ranges of CPES	
Description	Rating	
Outstanding	> 96%	
Very Satisfactory	> 89% <u><</u> 96%	
Satisfactory	> 82% <u><</u> 89%	
Unsatisfactory	<u>></u> 75% <u><</u> 82%	
Poor	< 75%	

11.4 CPES Checklists

The checklists for each indicator are made to aid the accredited CPEs in the objective evaluation of constructors' performance. These checklists are coded mainly for data banking purposes.

a. Checklist for Workmanship

For identification purposes, the checklist for workmanship for Road, Bridge, Housing, Building, Port and Harbor are coded with letters RBWS, HBWS, and PHWS, respectively. The first two letters refer to type, e.g. RB stands for Road and Bridge, and WS refers to workmanship.

The checklists for Workmanship for Road and Bridge, Housing and Building, Port and Harbor, Irrigation, Flood Control, Power Transmission Line, Substation, <u>Mooring Facilities for Power</u> <u>Barges and Diesel Power Plant</u> Projects are contained in Annex 2.

The CPE shall select from the checklists those items of work which are applicable for evaluation/assessment. Indicators are set for each items of work but the CPE may add other indicators in the blank spaces provided for. All additional indicators shall be submitted to CIAP for coding purposes.

The checklists for workmanship in Annex 2 shall be revised by the CIAP's PDCB to reflect, among others, specific indicators for major and minor defects, and additional indicators as needed.

The CPE shall evaluate/assess the pre-determined spots based on the indicators set for each item of work. If there is non-compliance, the CPE shall determine if such is a major or minor defect. If an indicator is not applicable, the CPE should place NA (not applicable) at results box. Defects are considered major on the following basis:

- 1. Entail losses to the government;
- 2. Seriously affect the stability of the structure;
- 3. Cause severe damage to the aesthetics (depends on the items of work involved).

Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).

Determining Results, Score, Total Score and Rate.

- a.1 Determine the number of non-compliance or full compliance per indicator
- a.2 Results = Compliance / Number of spots
- a.3 Score = Results x 0.40 (During Construction); Score = Results x 0.50 (Upon Completion)
- a.4 Total Score = Sum of all the scores
- a.5 Rate of an Item of Work = Total Score (a)/No. of Indicator (b)
- b. Checklist for Materials

The checklist for Materials is contained in Annex 3 and starts with MAT followed by the blank space which is for the corresponding number of the item of work being evaluated. There are five (5) indicators for this aspect and all indicators shall be rated. Compliance to each indicator means full score of one (1) and non-compliance means score of zero (0).

If the constructor complies with indicator number 1 which is compliance to test requirements, then the remaining four (4) indicators need to be evaluated. If the constructor does not comply with indicator number 1, however, the remaining four (4) indicators shall also be evaluated for CAR purposes but the final rating is automatic zero (0).

If a work item does not require the use of materials (e.g. demolition of existing structure, excavation, or scraping), the constructor automatically gets 0.30 during construction and 0.20 upon completion in this aspect provided he gets the full rating in the workmanship aspect for such work item. However, if the particular item of work was not done or inadequately complied with, the rating for materials shall be 0.00. Furthermore, when a particular item of work was not rated since it is no longer visible and cannot be verified, the material aspect for such item of work shall not be rated.

Determining Results, Score, Total Score and Rate.

a.1 Results = If indicator is complied (C) = 1 and if not complied (NC) = 0

- a.2 Score = Compliance = 1×0.30 (During Construction); Score = Compliance = 1×0.20 (Upon Completion); Score = Non-Compliance = 0×0.00
- a.3 Total Score = Sum of all the Score (a)
- a.4 Determine number of indicators = 5(b)
- a.5 Rate = Total Score (a) / No. of Indicators (b)
- c. Checklist for Time

The checklist for Time is contained in Annex 4. Part One is for "During Construction" and Part Two is for "Upon Completion". The checklist shall be revised by the CIAP's PDCB to incorporate the new procedure for scoring of Time aspect which is through "calibration" instead of "bracketed" during construction phase.

For Part One – "During Construction" Form

Determining Results, Score and Rate

- a.1 Deduct the corresponding percentage of delay from 15% which is the maximum score for Time. The result is the score.
- a.2 Rate is equal to score (Rate = Score)

For Part Two – Upon Completion Form

The checklist shall be revised by the CIAP's PDCB to incorporate the amendment during "Upon Completion" phase and delete the provision of incentive when the project is completed ahead of schedule with perfect score for workmanship.

Determining Results, Score and Rate

- a.1 Place check in the results box for the corresponding performance in time aspect.
- a.2 Equivalent score is set for each criteria.
- a.3 Rate is equal to score. (Rate = Score)
- d. Checklist for Facilities

The checklist for Facilities is contained in Annex 5. The CPE should verify from the site if the indicators set for facilities are complied (C) or not complied (NC). Compliance means score of one (1) and non-compliance means score of zero (0). The CPE shall select only the indicators which are applicable.

Determining Results, Score, Total Score and Rate

- a.1 Results = If indicator is complied (C) = 1 or not complied (NC) = 0.
- a.2 Score = Compliance = 1 x 0.03; Non-compliance = 0 x 0.00
- a.3 Total Score = Sum of all the Scores (a).
- a.4 Determine number of indicators = 5 (b).
- a.5 Rate = Total Score (a) / No. of Indicators (b).

e. Checklist for Environmental, Safety and Health (ESH)

The checklist for ESH is contained in Annex 6. These were lifted from Department Order (DO) No. 13, series of 1998 of the Department of Labor and Employment (DOLE) entitled Guidelines Governing Occupational Safety and Health in the Construction Industry. The CPE should verify if each indicator set for this aspect is being strictly implemented by the constructor. The CPE shall select only the indicators which are applicable.

Determining Results, Score, Total Score and Final Rating

- a.1 Results = If indicator is complied (C) = 1 and if not complied (NC) = 0.
- a.2 Score = Compliance = 1×0.07 ; Non-compliance = 0×0.00
- a.3 Total Score = Sum of all the Scores (a).
- a.4 Determine number of indicators = 16 (b).
- a.5 Rate = Total Score (a) / No. of indicators (b).
- f. Checklist for Resources Deployment

The checklist for Resources Deployment is contained in Annex 7. The CPE should check the actual deployment of resources (materials, manpower and equipment) and verify if the constructor complies or does not comply as per latest approved resources schedule. All indicators shall be rated.

Determining Results, Score, Total Score and Rate

- a.1 Results = If indicator is complied (C) = 1 and if not complied (NC) = 0.
- a.2 Score = Compliance = 1×0.05 ; Non-compliance = 0×0.00
- a.3 Total score = Sum of all the scores (a)
- a.4 Determine number of indicators = 3(b)
- a.5 Rate = Total Score (a)/No. of Indicators (b)

11.5 Corrective Action Request (CAR)

The CPE shall issue CARs to the constructor for each finding of nonconformance, using the form attached as Annex 9. The IO shall approve and monitor the implementation of the corrective action plan submitted by the constructor.

11.6 **Constructors Performance Summary Report**

The CPEs shall process and summarize all their findings on the project in the Constructor's Performance Summary Report (Annex 10) and submit it to CPES-IU. The CPES-IU shall review and finalize the report prior to submission to the CIAP and other departments within the agency for data banking and other purposes.

12. INFORMATION UTILIZATION AND DATA BANKING

The CPES rating and other information contained in the authenticated copies of Constructors Performance Summary Report (Annex 10) to be regularly

provided by government agencies concerned to CIAP's PDCB and centrally maintained by the same shall be made available to all interested users either electronically or in hard copy/diskette.

Pursuant to Section 12 (5), Annex E of the IRR of R.A. 9184, and to provide for a common and uniform application by all heads of agencies and instrumentalities of the national government, including government-owned and/or controlled corporations (GOCCs), government financial institutions (GFIs), state universities and colleges (SUCs), and local government units (LGUs), the CPES rating results shall be used for, but not limited to, the following purposes:

- 12.1 **Eligibility Check of Constructors** The CPES rating shall form part of the requirements of the Bids and Award Committees (BACs) for eligibility check in the procurement of infrastructure projects pursuant to Item 4, Section 23.11.2 of the IRR of R.A. No. 9184, which provides that the CPES rating and/or certificate of completion and owner's acceptance of the contract must at least be satisfactory.
- 12.2 Agency Shortlist The CPES rating shall be considered in the shortlisting and selection of constructors for Negotiated Procurement under Section 53.1; 53.2; 53.3; 53.4 of the IRR of RA 9184. Constructors with CPES ratings of at least "Satisfactory" may be considered by the BAC in the shortlist of eligible constructors to be invited for negotiation pursuant to Section 54.2 of the IRR of R.A. No. 9184.
- 12.3 **Post-Qualification** The CPES rating shall be used in the review of the technical capabilities of a constructor-bidder during the postqualification stage pursuant to Section 34.<u>3.b.ii</u> of the IRR of RA 9184 which requires the agency to "check the performance of the bidder in its on-going government and private contracts." For this purpose, the BACs shall ensure that the following conditions are met:
 - a) The constructor must not have a zero (0) rating for "Time" for ongoing projects; and
 - b) The constructor must have a CPES rating of at least "Satisfactory" in all of his on-going projects.
- 12.4 **Awarding of Contracts** The CPES ratings may be used by the agencies as additional reference to ensure appropriate awarding of contract.
- 12.5 Issuance of Certificate of Completion for Projects Subjected to CPES Evaluation - The CPES Rating shall be used as basis for the issuance of the Certificate of Completion of projects evaluated using the CPES. If applicable, the concerned Implementing Office of each government agency is required to check compliance of constructors to all the Corrective Action Requests (CARs) recommended by the accredited CPES evaluators and issued by the Implementing Agency. The constructors' compliance with all the CARs issued and other

requirements of the project owner shall be the basis for the issuance of the Certificate of Completion.

- 12.6 **Project Monitoring and Control** The CPES rating/information shall be used by agencies as a reference for project monitoring, audit, and quality control in ensuring the following, among others: a) compliance with contract provisions and specifications; b) prompt and effective action on problems encountered; c) compliance with safety and health regulations and d) compliance with environmental regulations.
- 12.7 Blacklisting of Constructors A constructor with a CPES rating of "Poor" or "Unsatisfactory" in any of his projects shall be blacklisted from participating in any <u>government project in accordance with</u> <u>Section 4.2 (f) of the GPPB Guidelines for Blacklisting of</u> <u>Constructors.</u>
- 12.8 **Policy Formulation/Review** The CPES rating and other related information shall serve as reference materials in the formulation and review of policies and procedures pertaining to, among others, eligibility check, bidding, award and contract implementation.
- 12.9 Industry Planning The CPES rating and other information shall serve as additional reference by the agency's Planning Department/Division, and the CIAP and PDCB in the preparation of plans and programs for the development of the construction sector, including measures to improve constructor's performance in government projects.
- 12.<u>10</u> Granting of Awards & Recognition Constructors with CPES ratings of "Outstanding" shall be considered for awards and/or recognition for outstanding performance. For this purpose, the agency's CPES-IU and CIAP's PDCB shall ensure that the following conditions are met:
 - a. The nominee must have at least three (3) projects with a consistent CPES final rating of "Outstanding (at least 96%)" within the period of review which is 3 years;
 - b. Projects already included in previous nominations shall no longer be considered;
 - c. No final CPES ratings of "Poor" and/or "Unsatisfactory" for the period under evaluation; and
 - d. The nominee has fully complied with and passed the CPES requirement on environmental, safety, and health concerns which include the submission to, and approval by, the DOLE of the Constructor's Construction Safety and Health Program.

The list of constructors who are awardees and granted recognition shall be posted conspicuously in the bulletin boards of government agencies and the GPPB's website. CIAP's PDCB shall issue Certificates of Recognition to constructors with consistent CPES final ratings of "Outstanding".

12.<u>11</u> PCAB Registration and Classification - When applicable, the CPES ratings shall form part of the requirements for Registration and Classification of government constructors pursuant to the guidelines to be issued by the PCAB.

13. APPLICABILITY

These guidelines shall be applied to all constructors of all national government agencies, department, bureau, office, or instrumentality of the Government, including government-owned and/or controlled corporations (GOCCs), government financial institution (GFIs), state universities and colleges (SUCs), and local government units (LGUs) undertaking infrastructure projects.

Private entities may also use these guidelines to evaluate their constructors' project performance.

14. EFFECTIVITY

These guidelines shall become effective upon approval by the National Economic and Development Authority (NEDA) Board's Committee on Infrastructure (INFRACOM) and fifteen (15) days after publication by CIAP.

LIST OF ACRONYMS

1.	AMO	-	Authorized Managing Officer
2.	BAC	-	Bids and Award Committee
3.	CAP	-	Corrective Action Plan
4.	CAR	-	Corrective Action Request
5.	CIAP	-	Construction Industry Authority of the Philippines
6.	CPE	-	Constructors' Performance Evaluator
7.	CPES	-	Constructors' Performance Evaluation System
8.	DOLE	-	Department of Labor and Employment
9.	ESH	-	Environmental, Safety and Health
10.	GFIs	-	Government Financial Institutions
11.	GOCCs	-	Government-Owned and/or Controlled Corporations
12.	GPPB	-	Government Procurement Policy Board
13.	INFRACOM	-	NEDA Board Committee on Infrastructure
14.	Ю	-	Implementing Office
15.	IU	-	Implementing Unit
16.	LGU	-	Local Government Unit
17.	NEDA	-	National Economic and Development Authority
18.	NGAs	-	National Government Agencies
19.	NTP	-	Notice to Proceed
20.	PAP	-	Preventive Action Plan
21.	PCAB	-	Philippine Contractors Accreditation Board
22.	PDCB	-	Philippine Domestic Construction Board
23.	PE	-	Project Engineer
24.	STE	-	Sustaining Technical Employee
25.	SUCs	-	State Universities and Colleges

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- Annex 2 Checklists for Workmanship
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 - B. Housing and Building Projects
 - C. Port and Harbor Projects
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 - I. Mooring Facilities for Power Barges Projects
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- Annex 3 Checklist for Materials
- Annex 4 Checklist for Time
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- Annex 8 CPES Evaluation Form
- Annex 9 Corrective Action Request (CAR) Form
- Annex 10 Constructors Performance Summary Report
- Annex 11 Schedule of Minimum Test Requirements Governing Items of Work of the DPWH Standard Specifications for Highways, Bridges and Airports, 1995 (Vol. II)

Schedule of Minimum Test Requirements Governing Items of Work of the DPWH Standard Specifications for Highways, Bridges and Airports Using Test Requirements as Practiced by the National Transmission Corporation (TRANSCO) for Power Transmission Line and Substation Projects

Annex 12 - List of Philippine National Standards (Construction Materials) for Mandatory Implementation

CPES FUNCTIONAL/DEPLOYMENT FLOWCHART

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- A. ROAD AND BRIDGE PROJECTS
- **B. HOUSING AND BUILDING PROJECTS**
- C. PORT AND HARBOR PROJECTS
- D. IRRIGATION PROJECTS
- E. FLOOD CONTROL PROJECTS
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Item 701	Submarine Cable Laying	2F-14
Item 702	Installation of Accessories	2F-14
Item 703	Backfilling Works (Going to CTS)	2F-14
Underground Cab		
Item 800	Trenching Works (Offshore)	2F-15
Item 801	Grounding Hole	2F-15
Item 802	Underground Cable Laying	2F-15
Item 803	Terminating Cable	2F-16
Item 804	Splice Joint	2F-16
Item 805	Splicing of Cable	2F-16
Pre-Commissioni		0
Item 900	Pre-Commissioning	2F-17
		,

ANNEX 2-G

CHECKLIST FOR SUBSTATION

Site Development

Item 100	Boundary Establishment	2G-1
Item 101	Clearing and Grabbing	2G-1
Item 102	Removal of Structure and Obstruction	2G-1
Item 103	Grading Excavation	2G-1
Item 104	Structure Excavation	2G-1
Item 105	Embankment	2G-2
Item 106	Subgrade Preparation	2G-2
Item 107	Grading Fill	2G-2
Item 108	Backfill	2G-2
Item 109	Selected Fill	2G-2
Item 110	Aggregate Sub-base Course	2G-3
Item 111	Aggregate Base Course	2G-3
Item 112	Portland Cement Concrete Pavement	2G-4
Item 113	Pipe Culvert and Storm Drains	2G-5
Item 114	Manholes, Inlets, and Catch Basins	2G-5
Item 115	Riprap and Grouted Riprap	2G-6
Item 116	Gabion	2G-6
Item 117	Topsoil	2G-7
Item 118	Sprigging	2G-7
Item 119	Sodding	2G-7
Item 120	Ornament Plant/Tree Planting	2G-7
Item 121	Perimeter Fence	2G-7
Item 122	Gate Outdoor, Doodwoy and Parimeter Lighting System	2G-8
Item 123 Item 124	Outdoor, Roadway and Perimeter Lighting System	2G-8 2G-9
Item 125	Deepwell Drilling and Development Deepwell Submersible Pump	2G-9 2G-9
Item 126	Elevated Steel Water Tank	2G-3 2G-10
Item 127	Domestic Water Supply Piping System	2G-10 2G-10
Building	Domestic Water Supply I Iping System	2010
Item 200	Excavation	2G-11
Item 200	Fill and Backfill, Selected Fill	2G-11 2G-11
Item 202	Soil Poisoning	2G-11
Item 203	CHB Wall	2G-12
Item 204	Brick Wall	2G-12
Item 205	Tiled Finish	2G-13
Item 206	Carpet	2G-13
Item 207	Wood Parquet	2G-13
Item 208	Trowelled Floor Finish	2G-14
Item 209	Pebble Wash-Out	2G-14
Item 210	Waterproofing	2G-14
Item 211	Wall Paper	2G-15
Item 212	Wall Plaster Finish	2G-15
Item 213	Wall Cladding	2G-15
Item 214	Wall Painting	2G-16
Item 215	Ceiling Suspension	2G-16
Item 216	Ceiling Board	2G-17
Item 217	Ceiling Moulding	2G-17
Item 218	Roofing Frames	2G-17
Item 219	Roofing Sheets	2G-18
Item 220	Doors	2G-18
Item 221	Windows	2G-18
Item 222	Railings	2G-18
Item 223	Plumbing	2G-19
Item 224	Sanitary	2G-19
Item 225	Structural Steel Works	2G-20
Item 226	Electrical Works	2G-21
Item 227	Air Conditioning System	2G-22
Item 228	Ventilation System	2G-22

Item 300	Excavation
Item 301	Fill and Backfill
Item 302	Anchor Bolt Setting
Item 303	Cable Trench Cover and Supports
Item 304	Gravel Surfacing
Common Iten	ns of Work
Item 400	Formworks
Item 401	Reinforcing Steel Bars (including tendons for
	Pre/Post-Stressed Concrete)
Item 402	Concrete
S/S Equipme	nt Installation
Item 500	Gantries, Steel Structures and Supports
Item 501	Bus Conductors and Hardwares
Item 502	Grounding System
Item 503	Power Transformer
Item 504	Power Circuit Breaker
Item 505	Disconnect/Earthing Switch
Item 506	Current Transformer
Item 507	Voltage Transformer
Item 508	Surge Arrester
Item 509	Metal Clad Switch Gear
Item 510	Station Service Transformer
Item 511	AC and DC Station Auxiliary Switchboard
Item 512	Battery Charger
Item 513	Storage Battery
Item 514	Power/Control Instrumentation Cables
Item 515	Uninterruptible Power Supply
Item 516	Insulating Oil Treatment Plant
Item 517	Emergency Diesel Generator Set
Item 518	Lighting System
Item 519	Conduits and Cable Tray System
_	
Telecom Syst	
Item 600	Microwave Equipment
Item 601	Fiber Optic Terminal Equipment
Item 602	Power Line Carrier Equipment
Item 603	Telephone Equipment
Item 604	UHF/VHF Radio Equipment
Item 605	Antenna Tower
Item 606	Fiber Optic Cable (Linking the Station)
Control Syste	
Item 700	Microprocessor Based Control System
Item 701	Closed Circuit Television System
Item 702	Access Control and Alarm Monitoring System
Protection Sy	
Item 800	Line Protection System
Item 801	Substation Protection
Item 802	Network Disturbance Monitoring System
Item 803	Protection Signaling Equipment
Fire Protectic	
Item 900	Fire Pumping System
Item 901	Fire Protection Piping System
Item 902	Outdoor Hydrant
Item 903	Hydrant for Transformer Area

Portable Fire Extinguisher

Fire Detection and Alarm System

Portable Foam Equipment with Foam Concentrate

(For Control Relay Room and Auxiliary Room)

Transformer Deluge Water Sprinkler System

Total Gas Flooding Fire Suppression System

2G-23 2G-23 2G-23 2G-24 2G-24

2G-25

2G-25 2G-26

2G-27 2G-27 2G-28 2G-29 2G-29 2G-30 2G-30 2G-30 2G-31 2G-31 2G-31 2G-32 2G-32 2G-33 2G-33 2G-34 2G-35 2G-35 2G-36 2G-37

2G-38 2G-39 2G-39 2G-40 2G-40 2G-41 2G-42

2G-43 2G-43 2G-44

2G-45 2G-45 2G-46 2G-46

2G-47 2G-47 2G-48

2G-48

2G-48

2G-48

2G-48

2G-49

2G-49

Equipment Equadations

Item 904

Item 905

Item 906

Item 907

Item 908

ANNEX 2-H

CHECKLIST FOR DIESEL POWER PLANT

Site Development		
Item 100	Boundary Establishment	2H-1
Item 101	Clearing and Grabbing	2H-1
Item 102	Removal of Structure and Obstruction	2H-1
Item 103	Grading Excavation	2H-1
Item 104	Structure Excavation	2H-1
Item 105	Embankment	2H-2
Item 106	Subgrade Preparation	2H-2
Item 107	Grading Fill	2H-3
Item 108	Selected Fill/Engineered fill	2H-3
Item 109	Aggregate Sub-base Course/Aggregate Base Course	2H-4
Item 110	Portland Cement Concrete Pavement	2H-5
Item 111	Pipe Culvert and Storm Drains	2H-6
Item 112	Manholes, Inlets, and Catch Basins	2H-6
Item 113	Riprap and Grouted Riprap	2H-7
Item 114	Gabion /Mattresses	2H-7
Item 115	Topsoil	2H-8
Item 116	Sprigging/Sodding	2H-8
Item 117	Ornament Plant/Tree Planting	2H-8
Item 118	Perimeter/Seclusion Fence	2H-9
Item 119	Gate / Guardhouse	2H-10
Item 120	Outdoor, Roadway and Perimeter Lighting System	2H-10
Item 121	Deepwell Drilling and Development	2H-10
Item 122	Deepwell Submersible Pump	2H-11
Item 123	Elevated Steel Water Tank	2H-11
Item 124	Domestic Water Supply Piping System	2H-12
Item 125	Gravel Surfacing	2H-12
Item 126	Concrete Drainage Canal	2H-13
Item 127	Oil-Water Separator	2H-13
Item 128	Rockwall/Retaining Wall	2H-13
Powerhouse Buildi	ing	
Item 200	Fill and Selected Fill	2H-14
Item 201	Soil Poisoning	2H-14
Item 202	CHB Wall	2H-14
Item 203	Brick Wall	2H-15
Item 204	Tiled Finish	2H-15
Item 205	Trowelled Floor Finish	2H-15
Item 206	Pebble Wash-Out	2H-16
Item 207	Waterproofing	2H-16
Item 208	Wall Paper	2H-16
Item 209	Wall Plaster Finish	2H-16
Item 210	Wall Cladding	2H-17
Item 211	Wall/Roof Painting	2H-17
Item 212	Ceiling Suspension	2H-17
Item 213	Ceiling Board	2H-18
Item 214	Ceiling Moulding	2H-18
Item 215	Roofing Frames	2H-18
Item 216	Roofing Sheets	2H-18
Item 217	Doors	2H-19
Item 218	Windows	2H-19
Item 219	Railings	2H-19
Item 220	Plumbing	2H- 20
Item 221	Sanitary	2H- 20
Item 222	Structural Steel Works	2H- 21

2H- 22

2H- 23

2H- 23

2H- 23

Item 223

Item 224

Item 225

Item 226

Electrical Works

Septic Vaults

Ventilation System

Air Conditioning System

Equipment Founda	tions	
Item 300	Fill / Sand and Gravel Bedding	2H-24
Item 301	Lean Concrete	2H-24
Item 302	Anchor Bolt Setting	2H-24
Item 303	Epoxy and Non-Cementitous Grouting	2H-24
Item 304	Cable Trench Cover and Supports	2H-25
Item 305	Gravel Surfacing	2H-25
Common Items of V	Works	
Item 400	Excavation	2H-26
Item 401	Backfill	2H-26
Item 402	Formworks	2H-26
Item 403	Reinforcing Steel Bars (including tendons for Pre/Post-Stressed Concrete)	2H-27
Item 404	Concrete	2H-28
Equipment Installa	tion	
Item 500	Diesel Generator Set and its Appurtenances	2H-29
Item 501	Fuel Oil System	2H-29
Item 502	Cooling System	2H-30
Item 503	Cooling Water Supply System	2H-30
Item 504	Lubrication Oil System	2H-31
Item 505	Compressed Air System	2H-31
Item 506	Exhaust System	2H-32
Item 507	Domestic Water Supply System	2H-32
Item 508	Power Transformer	2H-33
Item 509	Power Circuit Breaker	2H-34
Item 510	Station Service Transformer	2H-34
Item 511	Kilowatt Hour Billing Meter	2H-35
Item 512	Current Transformer	2H-35
Item 513	Potential/Voltage Transformer	2H-35
Item 514	Metal Clad Switch Gear	2H-36
Item 515	Disconnect/Earthing Switch	2H-36
Item 516	Power/Control and Protection Panel	2H-37
Item 517	Surge/Lightning Arrester	2H-37
Item 518	Uninterruptible Power Supply	2H-38
Item 519	Storage Battery	2H-38
Item 520	Battery Charger	2H-39
Item 521	Grounding System	2H-40
Item 522	Bus Conductors and Hardwares	2H-41
Item 523	Gantries, Steel Structures and Supports	2H-41
Item 524	Power/Control/Instrumentation Cables	2H-42
Item 525	Conduits and Cable Tray System	2H-43

ANNEX 2-I

CHECKLIST FOR MOORING FACILITIES FOR POWER BARGES

Item 100	Site Development	21 -1
Item 101	Breakwater, Bulkhead, Causeway, Jetty Groin, Shore	21 -1
	Protection Works, i.e, Slope Protection (Riprap, Rubble,	
	Stone Masonry)	
Item 102	Gabions/Mattresses	21 -2
Item 103	Reinforced Concrete Piles	21 -3
Item 104	Timber/Wooden Piles	21 -4
Item 105	Steel Piles	21 -5
Item 106	Breasting and Mooring Dolphins	21 -6
Item 107	Bitts/Cleats/Bollards	21 -6
Item 108	Take-Off Structures	21 -7
Item 109	Rubber Fender	21 -7
Item 110	Reclamation Works	21 -8
Item 111	Dredging Works	21 -8
Item 112	Formworks	21 -8
Item 113	Reinforcing Steel Bars (Including Tendons for Pre/	21 -9
	Post-stressed Concrete	
Item 114	Concrete Works	21 -9
Item 115	Catwalk/Stair Landing/Ladder	2I -10
Item 116	Piping Works	2I -10
Item 117	Painting Works	2I -10
Item 118	Electrical Works	2I -11
Item 119	Grounding System	2I -12

ANNEX 2-J

CHECKLIST FOR SITE DEVELOPMENT

Item 100	Clearing and Grubbing	2J-1
Item 101	Excavation	2J-1
Item 102	Earthfill	2J-1
Item 103	Planting of Trees and Shrubs	2J-1
Item 200	Formworks	2J-2
Item 201	Reinforcing Steel Bars (Including Tendons for Pre/	2J-2
	Post-stressed Concrete	
Item 300	Concrete Works	2J-3
Item 301	CHB Wall	2J-4
Item 400	Paver Blocks/Concrete Blocks	2J-5
Item 401	stamped Concrete	2J-5
Item 402	Grass Pavers	2J-5
Item 403	Trowelled Finish/Broomed Finish	2J-6
Item 404	Pebble Wash-out	2J-6
Item 405	Decorative Boulders	2J-6
Item 406	Garden Tile/Stone Finish	2J-7
Item 407	Wall Bricks/Stone Finish	2J-7
Item 408	Plaster Finish	2J-7
Item 409	Cladding	2J-7
Item 500	Painting	2J-8
Item 600	Play Facilities	2J-9
Item 601	Trellis/Gazebo	2J-9
Item 602	Moulding/Moulding Strips	2J-9
Item 603	Entrance Gate	2J-10
Item 604	Park Fence	2J-10
Item 605	Railings	2J-10
Item 700	Plumbing	2J-11
Item 701	Sanitary	2J-11
Item 800	Electrical Works	2J-12
Item 900	Pipe Culvert and Storm Drain	2J-13
Item 901	Manhole, Inlets and Catch Basin	2J-13

CHECKLIST FOR MATERIALS

CHECKLIST FOR TIME

CHECKLIST FOR FACILITIES

CHECKLIST FOR ENVIRONMENTAL, SAFETY AND HEALTH

CHECKLIST FOR RESOURCES DEPLOYMENT

CPES EVALUATION FORM

Part I	General Information Sheet	8-1
Part II	During Construction Rating Sheet	8-2
Part III	Upon Completion Rating Sheet	8-3

CORRECTIVE ACTION REQUEST (CAR) FORM

CONSTRUCTORS PERFORMANCE SUMMARY REPORT

General Information Sheet	10-1
Non-Compliance Findings	10-2
List of Problems Encountered	10-3
Proposed Corrective Actions	10-3

Note: This summary report shall be submitted by the CPES-IU to CIAP based on the evaluation results.

SCHEDULE OF MINIMUM TEST REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORTS

A. Applicable for Irrigation and Flood Control Projects

Part C	Earthworks (Items 102, 103, 104, 105, 106)	11-1
Part D	Sub-base and Base Course (Items 200, 201, 202, 203, 204, 205, 206, 207)	11-1
Part E	Surface Course (Items 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310)	11-3
Part F	Bridge Construction (Items 311, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411)	11-7
Part G	Drainage and Slope Protection (Items 500, 501, 502, 503, 504, 505, 506, 507, 508, 509)	11-9
Part H	Miscellaneous Structure (Item 600, 601, 602, 604, 605, 606, 607, 608, 609, 610, 611)	11-10
Part I	Materials Details (Items 700, 701, 702, 703, 703A, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714)	11-11

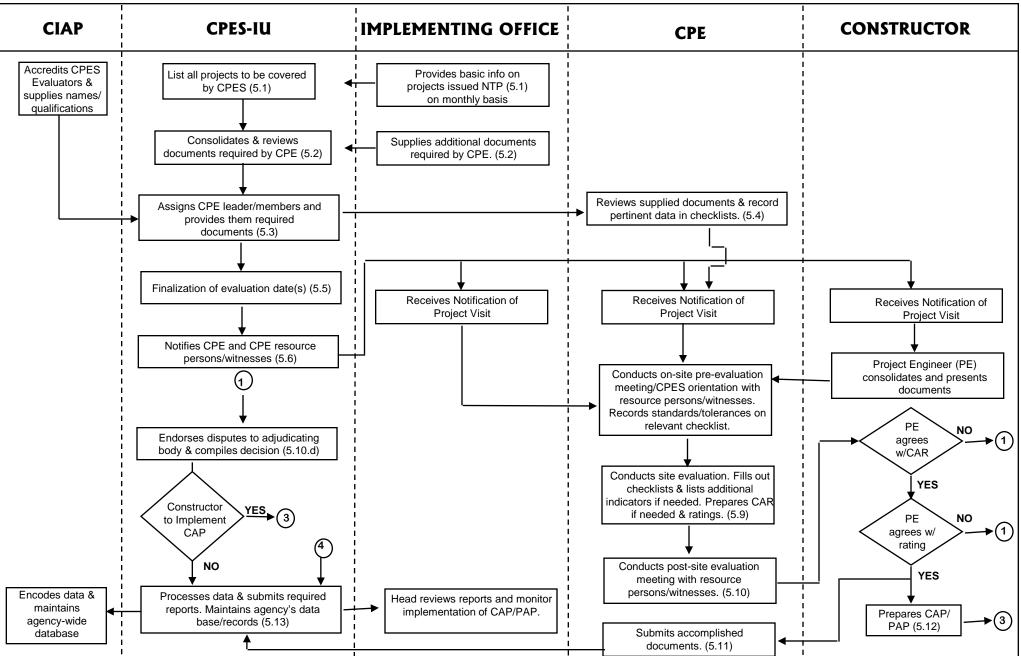
ANNEX 11-B

SCHEDULE OF MINIMUM TEST REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORTS AS PRACTICED BY THE NATIONAL TRANSMISSION CORPORATION (TRANSCO)

Part C	Earthworks (Items 100, 101, 102, 103, 104, 105)	11B-1
Part D	Sub-base and Base Course (Items 200, 201, 202)	11B-1
Part E	Surface Course (Items 311)	11B-2
Part F	Bridge Construction (Items 400, 404, 405, 407)	11B-3
Part G	Drainage and Slope Protection (Items 504, 505, 508)	11B-4
Part H	Miscellaneous Structure (Item 600, 601)	11B-4
Part I	Materials Details (Items 704, 708)	11B-4

PHILIPPINE NATIONAL STANDARDS (CONSTRUCTION MATERIALS) FOR MANDATORY IMPLEMENTATION

CPES FUNCTIONAL/DEPLOYMENT FLOWCHART



PROJECT ID/NO.:	PROJECT TYPE: Road	ITEM: Earthworks
VISIT	LOCATION:	DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50		-	
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 100 Clearing	& Grubbing, Item 101 Removal of Structure and Obstruction			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	S	
RBWS-1001	Proper removal of undisputed stumps roots and non-perishable solid objects/structures, vegetation, debris,tree and other obstructions (within carriageway)	/	X	
Minor				
RBWS-1001	Proper removal of undisputed stumps roots and non-perishable solid objects/structures, vegetation, debris,tree and other obstructions (outside carriageway)	/	X	
RBWS-1002	Conformance to proper disposal	/	=X	
		/	=X	
	on, Item 103 Structure Excavation			
<i>Major</i> RBWS-1001	Conformance with approved/specified tolerances for lines, grades, cross- section, elevation, & dimensions (if no longer correctible, e.g., with in- placed structure)	/	x	
Minor			_	
RBWS-1001	Conformance with approved/specified tolerances for lines, grades, cross- section, elevation, & dimensions (correctible)	/	=X	
RBWS-1002	Adherence to proper construction methodology	/	=X	
RBWS-1003	Conformance to proper disposal	/	=X	
		/	=X	
	nent, Item 105 Subgrade Preparation			
Major				
RBWS-1001	Adherence to proper construction methodology (if no longer correctible, e.g., layering, Item 105 not undertaken)	/	=X	
RBWS-1002	Conformance with approved/specified tolerances for lines, grades, cross- section, elevation, & dimensions (if no longer correctible, e.g., with in- placed structure)	/	X	
RBWS-1003	Adherence to compaction procedure and required equipment (if no longer correctible, e.g., done in layers but do not meet required compaction and succeeding layer was laid)	/	X	
Minor				ī
RBWS-1001	Adherence to proper construction methodology	/	=X	
RBWS-1002	Conformance with approved/specified tolerances for lines, grades, cross- section, elevation, & dimensions (correctible)	/	=X	
RBWS-1003	Adherence to compaction procedure and required equipment (correctible)	/	=X	
		/	=X	
	ion Eqpt. & Density Control Strips, Item 107 Overhaul			
<i>Major</i> RBWS-1001	Hauling distance for excavated materials claimed/considered overhaul	/	X	
	beyond freehaul distance	,	= X	
		,	= Total Score (a)	CAR Total
vvas subcontracto	or used? If yes, name of company and owner:		= No. of Indicators (b) -	

Entered by:_____

Date: / /

Rate = (a) / (b)

Rate

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE: Road LOCATION: _____

ITEM:Base & Sub-Base Course DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Course, 202 Crush Cement Stabilized	COURSE / Item 200, Aggregate Sub-Base Course, Item 201 Agg. Base ed Aggregate Base, 203 Lime Stabilized Road Mix Base, 204 Portland Road Mix Base, 205 Asphalt Stabilized Road Base, 206 Portland ant Mix Base, 300 Aggregate Surface Course.			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	6	
RBWS-2001	Conformance of in-placed materials to plans and specifications	/	X	
RBWS-2002	Adherence to proper construction methodology (if no longer correctible, e.g., layering)	/	=X	
RBWS-2003	Conformance w/ approved/specified tolerances on lines, grades, cross- section, thickness, elevation, dimensions & plans (if no longer correctible, e.g., not extended to shoulder and other succeeding items are already in- placed)	/	X	
RBWS-2004	Conformance to the required compaction	/	=X	
Minor			X	
RBWS-2001	Conformance of in-placed materials to plans and specifications	/	=	
RBWS-2002	Conformance to required layering	/	=X	
RBWS-2003	Conformance w/ approved/specified tolerances on lines, grades, cross- section, thickness, elevation, dimensions & plans (correctible)	/	X	
RBWS-2004	Conformance to the required compaction	/	X	
RBWS-2005	Sub-base/Base extended to shoulders	/	X	
RBWS-2006	Non-occurrence of subbase settlement/upheaval	/	=X	
RBWS-2007	Provision of required stakes	/	=X	
		/	=^	
		/	=^ X	
		/	=^	
		/	=^	
		/	=^	
		/	=^	
		/	=	
Nas subcontracto	or used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Road
LOCATION: _____

ITEM: Surface Course DATE OF VISIT: / /

Rate

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 301 Bituminol Seal Coat	us Prime Coat, Item 302 Bituminous Tack Coat, Item 303 Bituminous			
Major				
RBWS-3001	Conformance of in-placed materials to plans and specifications	/	X	
RBWS-3002	Observance of the required drying time	/	X	
Minor				
RBWS-3003	Conformance to the required rate and method of application	/	=X	
		/	X	
		/	X	
Rd. Mix Surface Co	us Surface Treatment, 305 Bit. Penetration Macadam Pavement, 306 Bit. Durse, 307 Bit. Plant Mix Surface Course, 308 Bit. Plant Mix Surface ant Mix (Stockpile Maintenance Mixture), 310 Bituminous Concrete ot Laid)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	\$	
RBWS-3001	Conformance of in-placed materials to plans and specifications	/	X	
RBWS-3002	Monitoring/checking of temperature mix prior to placing/spreading/compaction	/	X	
RBWS-3003	Conformance to the temperature requirement	/	X	
RBWS-3004	No alligator and longitudinal cracks	/	X	
RBWS-3005	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (>10% deficient)	/	X	
RBWS-3006	No bleeding on asphalt pavement (> 1 sq. m.)	/	X	
RBWS-3007	No upheaval (severe and needs R/R)	/	X	
RBWS-3008	No ravelling (severe and needs R/R)	/	X	
Minor				
RBWS-3005	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (\leq 10% deficient)	/	X	
RBWS-3006	No bleeding on asphalt pavement (≤1 sq.m)	/	=X	
RBWS-3007	No upheaval	/	=X	
RBWS-3008	No ravelling	/	=X	
RBWS-3009	No temperature cracks	/	=X	
RBWS-3010	Conformance to the required density	/	=X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		– Total Score (a) = No of Indicators (b)	CAR Total
	∝ Date: / /		Rate = (a) / (b)	

PROJECT ID/NO.: _____ _____VISIT PROJECT TYPE: Road
LOCATION: _____

ITEM:Surface Course DATE OF VISIT: / /

Rate

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 311 Portland	Cement Concrete Pavement (PCCP)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	3	
RBWS-311-01	No longitudinal cracks	/	=X	
RBWS-311-02	Conformance to vibration requirement	/	=X	
RBWS-311-03	Conformance to quality of concrete mix	/	=X	
RBWS-311-04	Conformance to requirements of construction joints (outside middle thirds)	/	X	
RBWS-311-05	No through cracks (all types of cracks)	/	X	
RBWS-311-06	No scaling (severe, needs Removal and Replacement)	/	X	
RBWS-311-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (>10% deficient)	/	=X	
Minor				
RBWS-311-05	No cracks e.g. transverse, diagonal, temperature, corner, restraint	/	=X	
RBWS-311-06	No scaling	/	=X	
RBWS-311-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (<10% deficient)	/	=X	
RBWS-311-08	No honeycomb	/	=X	
RBWS-311-09	No spalling	/	=X	
RBWS-311-10	No chipped-off edges	/	X	
RBWS-311-11	Conformance to required size, location & spacing of tie bars and dowel bars as per specifications	/	=X	
RBWS-311-12	Conformance to proper curing procedures	/	=X	
RBWS-311-13	Utilization of templates prior to pouring	/	=X	
RBWS-311-14	Conformance to placing requirement which will not result to segregation of aggregates, cold joints, misalignment	/	=X	
RBWS-311-15	Conformance to required amount of asphalt sealant on weakened plane joints (insufficient and excessive application)	/	=X	
RBWS-311-16	Conformance to requirement of pavement blockings (include depths and widths of weakened plane joints)	/	=X	
RBWS-311-17	No hardened/spilled concrete on pavement	/	=X	
RBWS-311-18	No pokemarks/tire marks/animal footmarks/skid marks, etc.	/	=X	
RBWS-311-19	Conformance to proper finishing of concrete (brooming)	/	=X	
RBWS-311-20	Conformance to formworks requirements (wooden, defective steel and not applied with oil/grease)	/	=X	
		/	=X	
		/	=X	
	or used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Bridge
LOCATION:_____

ITEM: Piling DATE OF VISIT: / /

Sub-item Code Note: Spots with a single major defect shall forfix all points for the resid in the said scale. Further, if the number of spots, the rating for that specific item of work is zero (0). Results Score the midatoria in the said scale. Further, if the number of spots, the rating for that specific item of work is zero (0). Results Score Major * Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects RBWS-400-1-02 Conformance to construction methodology (installation, location in and type). / _				Construction" = 0.40; "Upon Completion" = 0.50	Factor : "During (
400-1 Timber Piles Image: Timber Piles Image: Timber Piles Major* Refer to Section 11.4 ao f the CPES Guidelines for definition of Major Defects RBWS-400-1-02 Conformance of in-placed materials to plans and specifications // = RBWS-400-1-02 Conformance to construction methodology (installation, location and type) // = RBWS-400-1-03 Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm /m), elevation, location (>150 mm) & spacing // =	Action Monitor		Results	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Sub-item Code
Major* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects RBWS-400-1-01 Conformance of in-placed materials to plans and specifications /					
RRWS-400-1-01 Conformance to construction methodology (installation, location and type) // =		3	or Defects		
RRWS-400-1-02 and type) / =	-	x	/	Conformance of in-placed materials to plans and specifications	RBWS-400-1-01
ReWS-400-1-03 Conformance to splicing requirements /		X	/		RBWS-400-1-02
RBWS-400-1-04 slope, embedment, alignment, plumbness (>20 mm / m), elevation, /	-	X	/	Conformance to splicing requirements	RBWS-400-1-03
RBWS-400-1-05 Piles provided with gradation marks (driven) // =		X	/	slope, embedment, alignment, plumbness (>20 mm / m), elevation,	RBWS-400-1-04
RBWS-400-1-04 Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing / X		x	/	Piles provided with gradation marks (driven)	RBWS-400-1-05
RBWS-400-1-04 slope, embedment, alignment, plumbness (≤20 mm / m), elevation, location (≤150 mm) & spacing /		_			Minor
RBWS-400-1-05 Piles provided with gradation marks (stockpile) /		X	/	slope, embedment, alignment, plumbness (<20 mm / m), elevation,	RBWS-400-1-04
RBWS-400-1-00 thickness and or diameter / =		x	/	Piles provided with gradation marks (stockpile)	RBWS-400-1-05
RBWS-400-1-07 No loose knots, decay, splits, worm noies, and warp / =		=X	/		RBWS-400-1-06
RBWS-400-1-09 No cracks // = X		X	/	No loose knots, decay, splits, worm holes, and warp	RBWS-400-1-07
RBWS-400-1-09 No cracks / $=$ $-$ RBWS-400-1-10 Provision of pile cap / $=$ \times / / $=$ \times /	-	=X	/		RBWS-400-1-08
RBWS-400-1-10 Provision of pile cap / =	-	x	/	No cracks	RBWS-400-1-09
// = // =<	-	=X	/	Provision of pile cap	RBWS-400-1-10
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/ = / = / / = X _ Was subcontractor used? If yes, name of company and owner: Total Score (a) = CA =		=X	/		
/ =		X	/		
Was subcontractor used? If yes, name of company and owner:		=X	/		
	CAR Total	=			
Entered by: Date: / / Rate = (a) / (b)	┨────	=			
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PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Bridge LOCATION:_____ ITEM: Piling DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
400-2 Steel Piles				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects	\$	
RBWS-400-2-01	Conformance of in-placed materials to plans and specifications	/	X	
RBWS-400-2-02	Conformance to construction methodology (installation, location and type)	/	X	
RBWS-400-2-03	Conformance to splicing requirements	/	X	
RBWS-400-2-04	Conformance to the required length, width, thickness, and/or diameter	/	X	
RBWS-400-2-05	Piles provided with gradation marks (driven)	/	X	
RBWS-400-2-06	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	X	
Minor				
RBWS-400-2-05	Piles provided with gradation marks (stockpile)	/	=X	
RBWS-400-2-06	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (\leq 20 mm / m), elevation, location (\leq 150 mm) & spacing	/	X	
RBWS-400-2-07	No corrosions on steel piles	/	X	
RBWS-400-2-08	No deformation on steel piles	/	x	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	

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Rate

PROJECT ID/NO.: _____ PROJECT TYPE: Bridge ____VISIT LOCATION: _____

ITEM: Piling DATE OF VISIT: / /

			-	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monito
400-3 Concrete F for formworks, c	Pile (see Common Items of Work for checklist			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defect	S	
RBWS-400-3-01	Conformance of in-placed materials to plans and specifications	/	X	
RBWS-400-3-02	Conformance to construction methodology (installation, location and type)	/	= X	
RBWS-400-3-03	Conformance to splicing requirements	/	x	
RBWS-400-3-04	Conformance to the required length, width, thickness, and/or diameter	/	X	
RBWS-400-3-05	Provision of pile shoe	/	X	
RBWS-400-3-06	No through cracks			
RBWS-400-3-07	No honeycomb (exposed rebars/aggregates)	/	=X	
RBWS-400-3-08	Piles provided with gradation marks (driven)	/	=X	
RBWS-400-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	X	
Vinor				
RBWS-400-3-06	No cracks	/	=X	
RBWS-400-3-07	No honeycomb	/	X	
RBWS-400-3-08	Piles provided with gradation marks (stockpile)	/	X	
RBWS-400-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (\leq 20 mm / m), elevation, location (\leq 150 mm), spacing & champering	/	x	
RBWS-400-3-10	Conformance to specified curing on casted RC piles	/	X	
RBWS-400-3-11	Conformance to casting length	/	X	
RBWS-400-3-12	Conformance to required lifting procedure	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	=X	
		/	=X	
	or used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Intered by:	Date: / /		Rate = (a) / (b)	
,			= Rate	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Bridge
LOCATION: _____

ITEM: Railings DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 401 Railings	· · · · · · · · · · · · · · · · · · ·			
401-1 Steel Railir				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma		S X	
RBWS-401-1-01	Conformance of in-placed materials to plans & specifications	/	=	
RBWS-401-1-02	Conformance to alignment & jointing requirement	/	=X	
RBWS-401-1-03	No corrosion	/	=X	
Minor			X	
RBWS-401-1-03	No rust	/	=	
RBWS-401-1-04	No damage to painting and galvanized coating	/	X	
RBWS-401-1-05	Adequacy of bolts and nuts	/	=X	
RBWS-401-1-06	Conformance to finishing requirement	/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	= X	
		/	= X	
401-2 Timber Rai	lings		=	
Major				
RBWS-401-2-01	Conformance of in-placed materials to plans & specifications	/	=X	
RBWS-401-2-02	Conformance to alignment & jointing requirement	/	=X	
Minor				
RBWS-401-2-03	No splitting of timber	/	=X	
RBWS-401-2-04	Free from any form of damages	/	X	
RBWS-401-2-05	Provision of wood preservatives e.g. oils, creosote-oil, etc.	/	X	
		/	x	
		/	X	
		/	X	
		/	= X	
		/	= X	
			= Total Score (a)	CAR Total
	r used? If yes, name of company and owner:		= No. of Indicators (b)	
			=	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

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PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Bridge LOCATION: _____

ITEM: Railings DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			-
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
401-3 Masonry R	ailings			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	S	
RBWS-401-3-01	Conformance of in-placed materials to plans & specifications	/	=X	
RBWS-401-3-02	Conformance to required alignment	/	X	
RBWS-401-3-03	Conformance to required quality of mortar mix, CHB, stones, aggregates & boulders	/	X	
Minor				
RBWS-401-3-03	No cracks	/	=X	
RBWS-401-3-04	Sufficiency of mortar	/	X	
		/	X	
		/	X	
		/	X	
	Railings (see Common Items of Work for checklist for		=	
Formworks, RSB Major	& Concrete)			
RBWS-401-4-01	Conformance of in-placed materials to plans & specifications	/	X	
RBWS-401-4-02	Conformance to required alignment	/	X	
RBWS-401-4-03	Conformance to required quality of concrete mix		-	
Minor				
RBWS-401-4-04	Conformance to finishing requirements	/	=X	
RBWS-401-4-05	No cracks	/	X	
		/	X	
		/	X	
		/	X	
Item 402 Trowelle	ed			
RBWS-402-01	Smooth and even floor finish	/	X	
RBWS-402-02	No temperature cracks	/	X	
RBWS-402-03	No sign of deflection/settlement	/	= X	
		/	= X	
		/	= X	
M/			= Total Score (a)	CAR Total
	r used? If yes, name of company and owner:		= No. of Indicators (b)	
Entered by:	Date: / /		= Rate = (a) / (b)	
,			= Rate	
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____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Bridge

ITEM: Metal Structures DATE OF VISIT: / /

CAR Total

Total Score (a)

No. of Indicators (b)

Rate = (a) / (b) Rate

Factor : "During (Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 403 Metal St	ructures			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects	3	
RBWS-403-01	Structural steel conforms to the required size and dimension as per specification	/	=X	
RBWS-403-02	No corrosion (conditon that already affects structural soundness)	/	=X	
RBWS-403-03	No sagging/deflection (beyond 50% of the maximum tolerance)	/	=X	
RBWS-403-04	Conformance to proper installation/assembly	/	=X	
RBWS-403-05	Conformance to the required number of bolts/rivets as per plan	/	=X	
RBWS-403-06	Conformance to the required size and dimension for welding	/	=X	
RBWS-403-07	Fasteners, anchor bolts, base plates, bolts/nuts and washers conforms to specified size and dimension	/	=X	
		/	=X	
Minor				
RBWS-403-02	No rust/corrosion	/	=X	
RBWS-403-03	No sagging/deflection (within 50% of the maximum tolerance)	/	=X	
RBWS-403-08	Provided with appropriate paints (primer and surface coatings) in accordance with the specifications	/	=X	
RBWS-403-09	Structural members are true to line and free from twist, bends and open joints	/	=X	
RBWS-403-10	Pin holes/fastener holes (bolts & rivets) conforms to the required diameter as per specification	/	=X	
RBWS-403-11	Rivets are installed according to proper procedure per specifications	/	=X	
RBWS-403-12	Bolts are tightened to at least the minimum bolt tension, or at a required tension per specification	/	=X	
RBWS-403-13	Conformance to use of appropriate tightening tools	/	=X	
RBWS-403-14	Conformance to proper splicing/jointing	/	=X	
RBWS-403-15	Provision of camber for truss/beams/girder	/	=X	
RBWS-403-16	Complete number of bolts/rivets installed	/	=X	
RBWS-403-17	Painted metal surface are free of loose and bubbled paints, etc.	/	=X	
		/	=X	

Was subcontractor used? If yes, name of company and owner: _____ & _____

Entered by:_____

Date: / /

__VISIT

PROJECT ID/NO.:____ PROJECT TYPE: Road & Bridge LOCATION:

ITEM: Drainage & Slope Protection DATE OF VISIT: / /

racion: During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 500 Pipe Cເ	Ilverts & Storm Drains			
Major				
RBWS-500-01	Conformance to the required/approved tolerance for slope, alignment, elevation and dimensions	/	X	
Minor				
RBWS-500-02	No cracks, honeycombs, chipping of edges	/	=X	
RBWS-500-03	Compliance to joint mortar mixing proportions	/	=X	
RBWS-500-04	Sufficient collaring and flushing	/	=X	
RBWS-500-05	Compliance to the required thickness, compaction & materials requirement of gravel bedding	/	X	
RBWS-500-06	Compliance to the required thickness & compaction of backfill	/	=X	
RBWS-500-07	Conformance to trenching requirements	/	=X	
RBWS-500-08	Free from debris, siltation, etc.	/	X	
		/	X	
ltem 502 Manhol	e, Inlets and Catch Basins			
Major				
RBWS-502-01	Conformance to connection requirements between pipes & inlet wall	/	=X	
RBWS-502-02	Conformance to approved/specified tolerance for dimensions and elevations	/	X	
Minor				
RBWS-502-03	No damage on manhole, inlets & catch basins	/	=X	
RBWS-502-04	No cracks	/	=X	
RBWS-502-05	No honeycomb	/	=X	
RBWS-502-06	Free from debris, siltation, etc.	/	=X	
RBWS-502-07	Covers and gratings are well fitted and can easily be opened during maintenance work	/	=X	
		/	=X	
tem 504 Cleaning	g and Recondition of Existing Drainage Structures			
RBWS-504-01	Conformance to the approved/required tolerances for alignment	/	X	
RBWS-504-02	Proper spacing of rebars	/	X	
RBWS-504-03	Compliance to scope of work	/	X	
RBWS-504-04	Conformance to plans and specifications	/	X	
		/	X	
Noo aubaartra da	I support of company and support		= Total Score (a)	CAR Total
	r used? If yes, name of company and owner:		= No. of Indicators (b)	
Entered by:	Date: / /		= Rate = (a) / (b)	
· /			=	

Rate

_VISIT

PROJECT ID/NO.:____ PROJECT TYPE: Road & Bridge LOCATION:

ITEM: Drainage & Slope Protection DATE OF VISIT: / /

Factor . During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 505 Riprap Concrete	and Grouted Riprap, Item 506 Stone Masonry, Item 507 Rubble			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects	6	
RBWS-5001	No through cracks	/	X	
RBWS-5002	Conformance to specifications (size, type, weight, etc. of boulders)	/	X	
RBWS-5003	Sufficient grout/mortar	/	=X	
RBWS-5004	Observance to proper placing of stones/boulders	/	=X	
RBWS-5005	Conformance to the approved/required tolerance for slope and thickness	/	=X	
RBWS-5006	Compliance to the specified compaction and preparation of bedding	/	=X	
Minor				
RBWS-5001	No cracks	/	=X	
RBWS-5007	Adequate and proper spacing of weepholes	/	X	
RBWS-5008	Compliance to design mix of mortar	/	=X	
RBWS-5009	Conformance with approved tolerance for lines, grades, cross- sections and elevations	/	=X	
		/	=X	
		/	X	
ltem 508 Hand-la	id Rock Embankment			
Major				
RBWS-508-01	Conformance to the required size of boulders	/	=X	
RBWS-508-02	Observance to proper placement of stones/boulders	/	=X	
RBWS-508-03	Conformance to the approved/required tolerance for length, slope, and thickness	/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

__VISIT

PROJECT ID/NO.:____ PROJECT TYPE: Road & Bridge LOCATION:

ITEM: Drainage & Slope Protection DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of Score Action Sub-item Code the indicators in the said spot. Further, if the number of complying spots is Results _ x factor Monitor less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Item 509 Sheet Piles 509-1 Steel Sheet Pile * Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects Major* х RBWS-509-1-01 Conformance of in-placed materials to plans & specifications 1 Conformance to proper installation, e.g. conformance to required x RBWS-509-1-02 slope, embedment, alignment, plumbness (>20 mm / m), elevation, 1 location (>150 mm) & spacing _X_ RBWS-509-1-03 Piles provided with gradation marks (driven) 1 Conformance to the approved/required tolerances for length, width, х 1 RBWS-509-1-04 thickness and/or diameter x / Minor Conformance to proper installation, e.g. conformance to required RBWS-509-1-02 slope, embedment, alignment, plumbness (<20 mm / m), elevation, / location (<150 mm) & spacing х RBWS-509-1-03 Piles provided with gradation marks (stockpile) / Χ RBWS-509-1-05 Compliance to the required splicing / RBWS-509-1-06 No corrosion on steel sheet piles 1 х 1 RBWS-509-1-07 Non-use of deformed steel bars х RBWS-509-1-08 Attainment of required number of piles / х 1 х / х 1 х 1 Х 1 Х 1 х 1 1 Х 1 х 1 х / _X_ 1 Total Score (a) CAR Total Was subcontractor used? If yes, name of company and owner: _____ & __ No. of Indicators (b) Date: / / Entered by:___ Rate = (a) / (b) Rate

VISIT

PROJECT ID/NO.:____ PROJECT TYPE: Road & Bridge LOCATION:

ITEM: Drainage & Slope Protection DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
509-2 Concrete S	heet Pile			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	3	
RBWS-509-2-01	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm)	/	X	
RBWS-509-2-02	Piles provided with gradation marks (driven)	/	=X	
RBWS-509-2-03	Conformance to the required quality of concrete mix	/	X	
RBWS-509-2-04	No cracks	/	=X	
RBWS-509-2-05	Conformance to the approved/required tolerances for length, width, thickness and/or diameter	/	X	
		/	=X	
Minor				
RBWS-509-2-01	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (\leq 20 mm / m), elevation, location (\leq 150 mm)	/	X	
RBWS-509-2-02	Piles provided with gradation marks (stockpile)	/	=X	
RBWS-509-2-06	Conformance to the required casting length	/	=X	
RBWS-509-2-07	Provision of pile shoe	/	=X	
RBWS-509-2-08	Compliance to required curing of casted sheet piles	/	=X	
RBWS-509-2-09	Compliance to required splicing	/	=X	
RBWS-509-2-10	No honeycomb, stone pockets and bulging	/	=X	
RBWS-509-2-11	Conformance to the required centerline and cut-off elevation	/	=X	
RBWS-509-2-12	Attainment of required number of piles	/	=X	
		/	=X	
_		/	=X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /		= Rate = (a) / (b)	
			= Rate	

__VISIT

PROJECT ID/NO.:____ PROJECT TYPE: Road & Bridge LOCATION:

ITEM: Drainage & Slope Protection DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
509-3 Timber She	eet Piles			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	6	
RBWS-509-3-01	Conformance of in-placed materials to plans & specifications	/	X	
RBWS-509-3-02	Conformance to construction methodology (installation, location and type)	/	X	
RBWS-509-3-03	Conformance to splicing requirements	/	=X	
RBWS-509-3-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	X	
RBWS-509-3-05	Piles provided with gradation marks (driven)	/	X	
RBWS-509-3-06	Conformance to approved/specified tolerances for length, width, thickness and/or diameter	/	X	
Minor				
RBWS-509-3-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (\leq 20 mm / m), elevation, location (\leq 150 mm) & spacing	/	X	
RBWS-509-3-05	Piles provided with gradation marks (stockpile)	/	=X	
RBWS-509-3-07	No worm holes, decays, warps, ring, segregation, splits and loose knots	/	=X	
RBWS-509-3-08	Non-splintering/brooming of timber pile end beyond specified allowance	/	=X	
RBWS-509-3-09	No cracks	/	=X	
RBWS-509-3-10	Provision of pile cap	/	=X	
RBWS-509-3-11	Attainment of required number of piles	/	=X	
		/	=X	
	r used? If yes, name of company and owner:	-	Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /		= Rate = (a) / (b)	

Rate

__VISIT

PROJECT ID/NO.:____ PROJECT TYPE: Road & Bridge LOCATION:

ITEM: Drainage & Slope Protection DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 510 Concret	e Slope Protection			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects	S	
RBWS-510-01	No honeycomb (exposed rebars/aggregates)	/	=X	
RBWS-510-02	No through cracks	/	=X	
Minor		/	X	
RBWS-510-01	No honeycomb	/	X	
RBWS-510-02	No cracks	/	=X	
RBWS-510-03	Conformance to the required curing	/	=X	
RBWS-510-04	Proper vibration	/	=X	
RBWS-510-05	Proper finishes/plastering	/	=X	
RBWS-510-06	No corrosion on steel bars	/	=X	
RBWS-510-07	Forms applied with specified form oil	/	=X	
RBWS-510-08	Conformance to the required splicing and installation of rebars	/	=X	
RBWS-510-09	Adequate and proper spacing of weepholes	/	=X	
		/	X	
		/	=X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	& Date: / /		No. of Indicators (b) = Rate = (a) / (b)	
			= Rate	

_VISIT

PROJECT ID/NO.:____ PROJECT TYPE: Road & Bridge LOCATION:__

ITEM: Drainage & Slope Protection DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 511 Gabions	s & Mattresses			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	ior Defects	S	
RBWS-511-01	Conformance to the required/approved tolerance for lines grades, dimensions and arrangements as shown on the plans and designated location (>10%)	/	X	
RBWS-511-02	Conformance to specifications (size, type, weight, etc. of boulders)	/	X	
Minor				
RBWS-511-01	Conformance to the required/approved tolerance for lines grades, dimensions and arrangements as shown on the plans and designated location (\leq 10%)	/	X	
RBWS-511-03	Conformance to the required wire mesh cage fabrication requirement	/	=X	
RBWS-511-04	No misalignment, bulging	/	=X	
RBWS-511-05	Conformance to the required lapping requirement	/	=X	
		/	X	
		/	X	
		/	=X	
		/	=X	
		/	X	
		/	X	
Item 602 Monum	ents, Markers and Guide Posts			
RBWS-602-01	Conformance to required/approved tolerance for lines, grades and dimensions	/	X	
RBWS-602-02	Conformance to painting requirement	/	=X	
RBWS-602-03	Provision of the required warning reflectors	/	=X	
RBWS-602-04	Conformance to the design and location as shown on the plans	/	=X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner:	-	Total Score (a) =	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			– Rate	

 PROJECT ID/NO.:
 PROJECT TYPE: Bridge

 ____VISIT
 LOCATION:

ITEM: Guardrail DATE OF VISIT: / /

Factor . During				
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 603 - Guard				
603-1 Steel or Al		an Defect		
<i>Major*</i> RBWS-603-1-01	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj Conformance to the required/approved tolerance for lines, grades		sx	
	and dimensions (>6%)	/	=	
<i>Minor</i> RBWS-603-1-01	Conformance to the required/approved tolerance for lines, grade,		~	
KBWS-603-1-01	and dimensions (<6%)	/	=X	
RBWS-603-1-02	Sufficient paint	/	=X	
RBWS-603-1-03	Sufficient galvanizing	/	=X	
RBWS-603-1-04	Non-appearance of rust on steel	/	=X	
RBWS-603-1-05	Conformance with the design and location as shown on the plans	/	=X	
RBWS-603-1-06	Conformance to required installation (lapping, provision of bolts, nuts & washers)	/	=X	
		/	=X	
		/	=X	
		/	X	
reinforcing steel b	ns of works for checklist on formworks, ars and concrete)	/	X	
603-3 Timber			=	
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defect	<u>م</u>	
RBWS-603-3-01	Conformance to the required/approved tolerance for lines, grades	/	x	[
	and dimensions	/	=	
<i>Minor</i> RBWS-603-3-01	Conformance to the approved/required tolerance for lines, grades and dimensions	/	X	
RBWS-603-3-02	No splitting of timber	/	X	
RBWS-603-3-03	No insect attack	/	X	
RBWS-603-3-04	No decay of timber especially at the base of the posts and joints between posts and rails	/	=X	
RBWS-603-3-05	Conformity with the design and location as shown on the plans	/	=X	
RBWS-603-3-06	Proper application of preservatives	/	=X	
		/	=X	
		/	=X	
Was subcontracto	or used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	
			=	

PROJECT ID/NO.: _____ ____VISIT

PROJECT TYPE: Bridge
LOCATION: _____

ITEM: Guardrail DATE OF VISIT: / /

	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of		Score	
Sub-item Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Action Monitor
03-4 Masonry				
Major				
RBWS-603-4-01	Conformance to the required quality of mixture	/	=X	
RBWS-603-4-02	Conformance to the required quality of CHB, stones and boulders	/	=X	
BWS-603-4-03	Conformance to the required/approved tolerance for lines grades and dimensions	/	X	
Ninor				
RBWS-603-4-03	Conformance to the required/approved tolerance for lines, grades and dimensions	/	=X	
BWS-603-4-04	No cracks	/	=X	
BWS-603-4-05	Conformance to the design and location as shown on the plan	/	=X	
		/	=X	
		/	X	
		/	x	
		/	x	
		/	X	
		/	=X	
		/	= X	
		,	= X	
		/	= X	
		/	= X	
			=X	
		/	=X	
		/	=	CAR Total
	or used? If yes, name of company and owner:		= No. of Indicators (b)	
			=	
ntered by:	Date: / /		Rate = (a) / (b) =	
			= Rate	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Road
LOCATION: _____

ITEM: Miscellaneous Work DATE OF VISIT: / /

Sub-item Code Note: Space with a single major defect shall forbit all points for the rest of the incidence in the said syst. Finther, if the number of compling subscripts. Results	-actor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
tem 607 Topsol, tem 609 Spriggings, tem 610 Sodding, tem 611 Tree Planting /		Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results		Action Monitor
Idejor Conformance to the required materials for road signs pavement /					
NBW-60_0_01 markings and reflective pavement studs / =					
RBWS-6002 Proper preparation of pavement surface prior to paint application / = X RBWS-6003 Specifications for Public Works & Highways, Vol.II, 1995 / = X RBWS-6004 Cracking, peeling off of paints / = X = RBWS-6004 Cracking, peeling off of paints / = X <td>RBWS-6001</td> <td></td> <td>/</td> <td>X</td> <td></td>	RBWS-6001		/	X	
KBWS-60_02 (Item 606) / = RBWS-60_03 Conformance to provisions stipulated in the DPWH Standard / =	Minor				
KBWS-60_00 Specifications for Public Works & Highways, Vol.II, 1995 / = XBWS-60_04 Cracking, peeling off of paints // =		(Item 606)	/	=	
description of paints // =	RBWS-6003		/	=	
Image: space of the second state of	RBWS-6004	Cracking, peeling off of paints	/	=	
Image: space of the system of company and owner: // =			/	=	
// =			/	=	
Image: state of the second state of			/	=	
// =			/	=	
// =			/	=	
tem 608 Topsoil, Item 609 Spriggings, Item 610 Sodding, Item 611 Tree Planting RBWS-601 Conformance to appropriate type, thickness and density of soil / = X			/	=	
RBWS-601 Conformance to appropriate type, thickness and density of soil / X RBWS-602 Conformance to approved slope // X RBWS-603 Conformance to the required type of grass/planting materials // X RBWS-604 Healthy, dense, well rooted // X X RBWS-605 Free from weeds or undesirable grasses // X X RBWS-605 Free from weeds or undesirable grasses // X			/	=X	
RBWS-601 Conformance to appropriate type, thickness and density of soil / RBWS-602 Conformance to approved slope / RBWS-603 Conformance to the required type of grass/planting materials / RBWS-604 Healthy, dense, well rooted / RBWS-605 Free from weeds or undesirable grasses /	tem 608 Topsoil,	Item 609 Spriggings, Item 610 Sodding, Item 611 Tree Planting			-
RBWS-602 Conformance to approved slope / RBWS-603 Conformance to the required type of grass/planting materials / RBWS-604 Healthy, dense, well rooted / RBWS-605 Free from weeds or undesirable grasses / RBWS-605 Free from weeds or undesirable grasses / 1	RBWS-6 01	Conformance to appropriate type, thickness and density of soil	/	=X	
RBWS-603 Conformance to the required type of grass/planting materials / =	RBWS-6 02	Conformance to approved slope	/	=X	
RBWS-604 Healthy, dense, well rooted / =	RBWS-6 03	Conformance to the required type of grass/planting materials	/	=X	
KBWS-60 Free from weeds or undesirable grasses / X / X // X / X // X / X // X // X // // // // // //	RBWS-6 04	Healthy, dense, well rooted	/	=X	
/ = / = / / = / = / / = / = / / = / = / / = / / / = / / / = / / / = / / / = / / = / / = / = / = / = // = // = // = // = // = // <td>RBWS-6 05</td> <td>Free from weeds or undesirable grasses</td> <td>/</td> <td>=</td> <td></td>	RBWS-6 05	Free from weeds or undesirable grasses	/	=	
/ = / = / / = / = / / = / / / = / / / = / / / = / / / = / / / = / / = / / = / = / = / = / = // = // = // = // = // = // =			/	=X	
/ = / = / / = / = / / = / / = / = / / / = / / / = / / / = / / = / / = / = / = Vas subcontractor used? If yes, name of company and owner: Total Score (a) CAR T			/	=	
/ = / = / / = / = / / = / / = / = / / = / = / / / = . / . / = . . . / = . . . Vas subcontractor used? If yes, name of company and owner: Total Score (a) CAR T			/	=	
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/ = / = / / = X Vas subcontractor used? If yes, name of company and owner: Total Score (a) CAR T			/	=	
Vas subcontractor used? If yes, name of company and owner:			/	=	
Vas subcontractor used? If yes, name of company and owner:			/	=	
X.				=	CAR Total
=					
Entered by: Date: / / Rate = (a) / (b) =	Intered by:	Date: / /		Rate = (a) / (b) =	
Rate =				Rate	

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE: Road & Bridge

ITEM: Common Items of Work DATE OF VISIT: / /

			Soore	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 900 Formw	orks			
RBWS-900-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	X	
RBWS-900-02	Forms coated with mould oil as required	/	=X	
RBWS-900-03	Sufficient bracing/support provided	/	=X	
RBWS-900-04	No loose knots, splits, cracks, etc.	/	=X	
RBWS-900-05	Provision of required concrete or steel spacer	/	=X	
RBWS-900-06	Conformance to dimensions, location, plumbness and alignment	/	=X	
RBWS-900-07	Provision of camber during construction stage	/	=X	
		/	=X	
Item 901 Reinfo Stressed concre	cing Steel Bars (including tendons for Pre/Post-			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects	6	
RBWS-901-01	Conformance of in-placed materials to plans & specifications	/	X	
RBWS-901-02	Non-appearance of corrosion on steel reinforcement	/	X	
Minor				
RBWS-901-02	Non-appearance of rust on steel reinforcement	/	=X	
RBWS-901-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	=X	
RBWS-901-04	No sign of oil, paint and other deleterious materials on reinforcements	/	=X	
RBWS-901-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	=X	
RBWS-901-06	Conformance to the required installation of ducktube e.g. (spacing, location and distance)	/	=X	
RBWS-901-07	Conformance to the required steel plate and lock	/	X	
RBWS-901-08	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	/	X	
		/	X	
		/	X	
		/	X	
Was subcontract	or used? If yes, name of company and owner:		– Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	
			=	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Road & Bridge LOCATION: _____

ITEM: Common Items of Work DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 902 Concret	te Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects		
RBWS-902-01	No through of cracks	/	=X	
RBWS-902-02	No honeycomb or spalling (no exposed rebars/aggregates)	/	=X	
RBWS-902-03	No sagging or bulging	/	X	
RBWS-902-04	Conformance to the required quality of concrete mix	/	X	
RBWS-902-05	Provision of camber for RCDG (reinforced concrete for deck girder)	/	X	
Minor				
RBWS-902-01	No cracks	/	=X	
RBWS-902-02	No honeycomb or spalling	/	X	
RBWS-902-03	No sagging or bulging	/	X	
RBWS-902-06	No chipping off of concrete cover	/	X	
RBWS-902-07	Proper and adequate vibration	/	=X	
RBWS-902-08	Conformance to finishing/plastering requirement	/	=X	
RBWS-902-09	Conformance to the required concrete cover for rebars	/	=X	
RBWS-902-10	Conformance to the batching, mixing, transporting and discharge time requirements	/	=X	
RBWS-902-11	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	=X	
RBWS-902-12	Conformance to the jointing requirement	/	X	
RBWS-902-13	Proper curing	/	X	
RBWS-902-14	Conformance to required dimensions, lines, grades/elevation locations and crown (for pier)	/	=X	
RBWS-902-15	No water ponding on bearing plates	/	=X	
RBWS-902-16	Conformance to elevation of expansion joints	/	=X	
		/	=X	
	or used? If yes, name of company and owner:		Total Score (a) No. of Indicators (b)	CAR Total
	Date: / /		Rate = (a) / (b)	
			= Rate -	

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE: Road & Bridge LOCATION: _____

ITEM: Shotcrete DATE OF VISIT: / /

	INDICATORS		Sooro	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 903 Shotcre				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects		
RBWS-903-01	Conformance to the required quality of concrete mix as per	/	X	
	specification		= X	
RBWS-903-02	Conformance to the required thickness of concrete	/	=	
RBWS-903-03	Anchor bolts delivered/installed in accordance with the required size and dimension as per plan	/	=X	
RBWS-903-04	Steel reinforcement/wire mesh delivered/installed conforms to size and dimension per specification	/	X	
RBWS-903-05	Compliance to use of appropriate shotcrete machine/equipment	/	X	
		/	X	
Minor				
RBWS-903-06	No cracks, honeycomb or spalling	/	=X	
RBWS-903-07	Rockbolt filling materials conforms to the required specification	/	=X	
RBWS-903-08	Conformance to the required concrete cover for rebar/wire mesh	/	=X	
RBWS-903-09	Adequate and proper spacing of weepholes	/	=X	
RBWS-903-10	Conformance to the required size and type of materials for weepholes as per specification	/	X	
		/	X	
		/	X	
		/	=X	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

/

PROJECT ID/NO.:	_ PROJECT TYPE: Building & Housing	ITEM: Earthworks
VISIT	LOCATION/LOT:	DATE OF VISIT: /

		-		
	INDICATORS		Score	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 100 Cleari	ng and Grubbing			
HBWS-100-02	Conformance to the approved/specified tolerance for extent of clearing and grubbing work	/	X	
		/	X	
		/	X	
Item 101 Excav	ration			
HBWS-101-01	Conformance to the approved/specified tolerances for lines, grades, dimensions, elevations	/	X =	
HBWS-101-02	Conformance to the excavation support systems, e.g. angle of repose, bracing, shoring, sheet piling	/	X	
		/	X	
		/	X =	
Item 102 Fill				
HBWS-102-01	Conformance of in-placed materials to plans and specifications	/	X	
HBWS-102-02	Conformance to the required thickness of fill or backfill per layer	/	X =	
HBWS-102-03	Conformance to the required density or degree of compaction	/	X	
		/	X	
		/	X	
Item 103 Soil F	Poisoning			
HBWS-103-01	Conformance to the specified concentration of soil poisoning solution	/	X	
HBWS-103-02	Conformance to the specified rate of application	/	X =	
		/	X =	
		/	X	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =)
Entered by:	Date:	/ /	Rate= (a) / (b) =	
			Rate	

 PROJECT ID/NO.:
 PROJECT TYPE: Building & Housing
 ITEM: Structural Steel

 USIT
 LOCATION:
 DATE OF VISIT:
 /

Sub-item Code Note: Spots with a single major defect shall forhist for the rest of the indicators in the said spot. Further, if the number of compying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific tem of work is zero (0). Score X factor Major* * Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects Image: Conformance of in-placed materials to plans & specifications / X				INDICATORS	
Major* * Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects HBWS-300-01 Conformance of in-placed materials to plans & specifications / X	Action Monitor		Results	indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Sub-item Code
HBWS-300-01 Conformance of in-placed materials to plans & specifications / X				tural Steel Works	tem 300 Struc
HSWS-300-01 Conformance or in-placed materials to plans & specifications /		efects	f Major D	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major*
HBWS-300-02 and washers (not provided) / = X HBWS-300-03 Free from corrosion and any other form of damages / = X Minor Image: Solid Conformance to the specified type of welding / = X HBWS-300-04 Conformance to the specified type of welding / = X = HBWS-300-05 Fasteners, anchor bolts, bolts / nuts & washers conforms to specified size, strength, etc. / = X = HBWS-300-06 Installed according to plans / = X = <			/	Conformance of in-placed materials to plans & specifications	HBWS-300-01
International on your of damages /			/		HBWS-300-02
HBWS-300-03 Free from rust and any other form of damages / X			/	Free from corrosion and any other form of damages	HBWS-300-03
International and any other form of damages /					Minor
HBWS-300-04 Conformance to the specified type of welding /		X	/	Free from rust and any other form of damages	HBWS-300-03
HBWS-300-05 specified size, strength, etc. / = HBWS-300-06 Installed according to plans / = / X		X	/	Conformance to the specified type of welding	HBWS-300-04
HBWS-300-06 Installed according to plans / = /		X	/		HBWS-300-05
		X	/	Installed according to plans	HBWS-300-06
/ = /		X	/		
Image: state of the state			/		
/ = / = / = / = / = / = / = / = / = / / / = /		X	/		
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/ = Total Score (a)		X	/		
		X	/		
Was subcontractor used? If yes, name of company and owner: =	CAR Total			tor used? If yes, name of company and owner:	Was subcontrac
)	No. of Indicators (b)			
Entered by: Date: / / Rate = (a) / (b)		Rate = (a) / (b) =		Date: / /	Entered by:
- Rate		Rate			

PROJECT ID/NO.: _____ PRO-____VISIT LOC/

PROJECT TYPE: Housing & Building LOCATION: _____

ITEM: Common Items of Work DATE OF VISIT: / /

Factor: Durin				
	INDICATORS		Score	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Action Monitor
Item 301 Form	works			
HBWS-301-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	X	
HBWS-301-02	Forms coated with mould oil as required	/	X	
HBWS-301-03	Sufficient bracing/support provided	/	X	
HBWS-301-04	No loose knots, splits, cracks, etc.	/	X	
HBWS-301-05	Provision of required concrete or steel spacer	/	X	
HBWS-301-06	Conformance to dimensions, location, plumbness and alignment	/	X =	
HBWS-301-07	No use of dilapidated/salvage forms (use more than 3x)	/	X =	
		/	X =	
		/	X	
	brcing Steel Bars (including tendons for Pre/Post-			
Stressed concl	rete)	of Major De	footo	
Stressed concl Major*	rete) * Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects x	
Stressed conci Major*	rete)	of Major De /	X =	
Stressed concl Major* HBWS-302-01 HBWS-302-02	rete) * Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De / /		
Stressed concl Major* HBWS-302-01 HBWS-302-02	rete) * Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications	of Major De / /	X X =	
Stressed concl Major* HBWS-302-01 HBWS-302-02 Minor	rete) * Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications	of Major De / / /	X =	
Stressed concl Major* HBWS-302-01 HBWS-302-02 Minor HBWS-302-02	 * Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications Non-appearance of corrosion on steel reinforcement Non-appearance of rust on steel reinforcement Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements 	/ / /	X X X	
Stressed conci Major* HBWS-302-01 HBWS-302-02 Minor HBWS-302-02 HBWS-302-03	* Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications Non-appearance of corrosion on steel reinforcement Non-appearance of rust on steel reinforcement Conformance to approved bar cutting schedule, proper	/ / /	X X X	
Stressed conci Major* HBWS-302-01 HBWS-302-02 Minor HBWS-302-02 HBWS-302-03 HBWS-302-04	 * Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications Non-appearance of corrosion on steel reinforcement Non-appearance of rust on steel reinforcement Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements No sign of oil, paint and other deleterious materials on 	/ / /	X = X = X = X	
Stressed conci Major* HBWS-302-01 HBWS-302-02 Minor HBWS-302-02 HBWS-302-03 HBWS-302-04 HBWS-302-05	 * Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications Non-appearance of corrosion on steel reinforcement Non-appearance of rust on steel reinforcement Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements No sign of oil, paint and other deleterious materials on reinforcements 	/ / /	X = X = X = X = X = X	
Stressed conci Major* HBWS-302-01 HBWS-302-02 Minor HBWS-302-02 HBWS-302-03 HBWS-302-04 HBWS-302-05	 * Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications Non-appearance of corrosion on steel reinforcement Non-appearance of rust on steel reinforcement Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements No sign of oil, paint and other deleterious materials on reinforcements Conformance to jointing requirement, i.e.splicing, welding, etc. 	/ / /	X = X = X = X = X = X = X	
Stressed conci Major* HBWS-302-01 HBWS-302-02 Minor HBWS-302-02 HBWS-302-03 HBWS-302-04 HBWS-302-05	 * Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications Non-appearance of corrosion on steel reinforcement Non-appearance of rust on steel reinforcement Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements No sign of oil, paint and other deleterious materials on reinforcements Conformance to jointing requirement, i.e.splicing, welding, etc. 	/ / /	X = X = X = X = X = X = X =	
Stressed conci Major* HBWS-302-01 HBWS-302-02 Minor HBWS-302-02 HBWS-302-03 HBWS-302-04 HBWS-302-05 HBWS-302-06	 * Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications Non-appearance of corrosion on steel reinforcement Non-appearance of rust on steel reinforcement Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements No sign of oil, paint and other deleterious materials on reinforcements Conformance to jointing requirement, i.e.splicing, welding, etc. 	/ / /	X = X = X = X = X = X = X = X =	CAR Total
Stressed conci Major* HBWS-302-01 HBWS-302-02 Minor HBWS-302-02 HBWS-302-03 HBWS-302-03 HBWS-302-04 HBWS-302-05 HBWS-302-06	 * Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications Non-appearance of corrosion on steel reinforcement Non-appearance of rust on steel reinforcement Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements No sign of oil, paint and other deleterious materials on reinforcements Conformance to proper bending of stirrups 	/ / /	X = X = X = X = X = X = X = X = X = X =	
Stressed conci Major* HBWS-302-01 HBWS-302-02 Minor HBWS-302-02 HBWS-302-03 HBWS-302-03 HBWS-302-04 HBWS-302-05 HBWS-302-06	* Refer to Section 11.4a of the CPES Guidelines for definition of Conformance of in-placed materials to plans & specifications Non-appearance of corrosion on steel reinforcement Non-appearance of rust on steel reinforcement Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements No sign of oil, paint and other deleterious materials on reinforcements Conformance to jointing requirement, i.e.splicing, welding, etc. Conformance to proper bending of stirrups	/ / /	X = _X = _X _ = _	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Housing & Building ITEM: Common Items of Work

DATE OF VISIT: / /

Rate

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 303 Concr	ete Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
HBWS-303-01	No through cracks	/	X =	
HBWS-303-02	No honeycomb (no exposed rebars/aggregates)	/	X =	
HBWS-303-03	No sagging or bulging	/	X =	
HBWS-303-04	Conformance to required quality of concrete mix	/	X =	
Minor				
HBWS-303-01	No cracks	/	X =	
HBWS-303-02	No honeycomb	/	X =	
HBWS-303-03	No sagging or bulging	/	X =	
HBWS-303-05	Proper and adequate vibration	/	X	
HBWS-303-06	Conformance to finishing/plastering requirement	/	X =	
HBWS-303-07	No chipping off of concrete cover	/	X	
HBWS-303-08	Conformance to the required concrete cover for rebars	/	X =	
HBWS-303-09	Conformance to the batching, mixing, transporting and discharge time requirements	/	X	
HBWS-303-10	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	X =	
HBWS-303-11	Conformance to the jointing requirement	/	X =	
HBWS-303-12	Proper curing	/	X =	
HBWS-303-13	Conformance to required dimensions, lines, grades/elevation, and location	/	X =	
		/	X =	
		/	X =	
	tor used? If yes, name of company and owner:		Total Score (a) No. of Indicators (b)	CAR Total
	Q Date: / /		Rate = (a) / (b)	,

 PROJECT ID/NO.: _____
 PROJECT TYPE: Building & Housing LOCATION: _____
 ITEM: Masonry Works DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 304 CHB	Vall			
Major				
HBWS-304-01	Conformance to required quality of CHB	/	X	
HBWS-304-02	Conformance to required quality of mortar mix	/	X	
Minor				
HBWS-304-03	Conformance to specified tolerances for dimension, location, plumbness and alignment	/	X	
HBWS-304-04	Proper spacing of horizontal and vertical bars	/	X	
HBWS-304-05	Rebars used free from corrosion	/	X	
		/	X =	
		/	X =	
		/	X	
Item 305 Brick	Wall			
Major				
HBWS-305-01	Conformance to required quality of mortar mix	/	X	
Minor				
HBWS-305-02	Conformance to specified tolerances for dimension, location, plumbness and alignment	/	X =	
HBWS-305-03	Proper spacing of horizontal and vertical bars	/	X	
HBWS-305-04	Rebars used free from corrosion	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
	tor used? If yes, name of company and owner:		=	CAR Total
	&		No. of Indicators (b)	
	Date: / /		Rate = (a) / (b) =	

 PROJECT ID/NO.:
 PROJECT TYPE: Building & Housing
 ITEM:

 _____VISIT
 LOCATION:
 DATE

ITEM: Floor Finishes
DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action Monitor
Item 400 Tiled	Finish			
HBWS-400-01	Installed tiles free from chipping, cracks or any form of damages	/	X =	
HBWS-400-02	Mortar/Grout consistency and color conform to specification	/	X =	
HBWS-400-03	Joints are perfectly aligned and consistent with skirting and wall tiles	/	X =	
HBWS-400-04	Tiles are evenly placed/laid	/	X	
HBWS-400-05	Tiles in wet areas sloped down to drain	/	X	
HBWS-400-06	Tiles are properly bonded to floor	/	X	
		/	X =	
Item 401 Carpe	t			
HBWS-401-01	Evenly stretched and of even surface	/	X	
HBWS-401-02	Properly anchored at all edges	/	X	
HBWS-401-03	Provided with underlining	/	X	
HBWS-401-04	Free fron any form of damages	/	X =	
HBWS-401-05	Materials conform to specification as per plan	/	X =	
		/	X =	
Item 402 Wood	Parquet			
HBWS-402-01	Conforms to designed layout	/	X	
HBWS-402-02	Even surfaces	/	X	
HBWS-402-03	Free from any form of damages	/	X =	
HBWS-402-04	Adhesive conforms to specifications	/	X	
HBWS-402-05	Parquet properly bonded to floor	/	X =	
	tor used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____ PROJECT TYPE: Building & Housing ITEM: _____VISIT LOCATION: _____ DATE 0

ITEM: Floor Finishes
DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 403 Trowe	lled			
HBWS-403-01	Smooth and even floor finish	/	X	
HBWS-403-02	No temperature cracks	/	X	
HBWS-403-03	No sign of deflection/settlement	/	X	
		/	X	
		/	X	
tem 404 Pebbl	e Wash-out			
HBWS-404-01	Installed pebbles are evenly distributed	/	X	
HBWS-404-02	No temperature cracks	/	X	
HBWS-404-03	Installed pebbles surface are thoroughly clean from cement	/	X	
		/	X	
		/	X	
Item 405 Water	Proofing			
HBWS-405-01	Conforms to specified method of application	/	X	
HBWS-405-02	Conforms to number of coats/layers required	/	X	
HBWS-405-03	Passed required leak test	/	X	
HBWS-405-04	Conformance to the required materials specifications as per plan	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Nas subcontrac	tor used? If yes, name of company and owner:		Total Score (a) (CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			– Rate	

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing	ITEM: Wall Finishes
VISIT	LOCATION:	DATE OF VISIT: / /

Factor . During	g construction = 0.40; Open completion = 0.50		-	
	INDICATORS		Score	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Action Monitor
Item 500 Tiled I	Finish			
HBWS-500-01	Installed tiles free from chipping, cracks or any form of damages	/	X	
HBWS-500-02	Joints are perfectly aligned and consistent with skirting and floor tiles	/	X	
HBWS-500-03	Tiles are evenly placed/layed	/	X	
HBWS-500-04	Installed tiles are true to alignment	/	X =	
HBWS-500-05	Mortar/grout/adhesive consistency and color conform to specification	/	X	
HBWS-500-06	Tiles properly bonded to wall	/	X	
Item 501 Wall F	Paper			
HBWS-501-01	Smooth and evenly pasted	/	X	
HBWS-501-02	Free from scratches, stains, etc.	/	X	
		/	X	
Item 502 Plaste	er Finish			
HBWS-502-01	Conformance to designed mixture of plastering materials	/	X	
HBWS-502-02	Conformance to specified method of application and thickness of plastering	/	X	
HBWS-502-03	True to alignment	/	X	
HBWS-502-04	Free from any form of damages e.g. cracks, peeled-off plaster finish	/	X	
Item 503 Clado	ling			
HBWS-503-01	Panels properly anchored	/	X	
HBWS-503-02	True to alignment, plumbness	/	X	
HBWS-503-03	Free from any form of damages	/	X	
HBWS-503-04	Panels conforms to construction procedure	/	X	
	tor used? If yes, name of company and owner:		=	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.:	PROJECT TYPE: Building & Housing	ITEM: Wall Finishes
VISIT	LOCATION:	DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 504 Paint	ing			
HBWS-504-01	Surface prepared according to specification	/	X	
HBWS-504-02	Required neutralizers, etc. applied	/	X	
HBWS-504-03	Applied paint appropriate to the surface	/	X	
HBWS-504-04	Specified number of coats applied	/	X	
HBWS-504-05	Surfaces evenly painted, proper opacity	/	X	
HBWS-504-06	No discoloration and peeling-off of paint	/	X	
HBWS-504-07	Paints conform to specification/requirements	/	X	
HBWS-504-08	Surface are properly applied with putty/patching compound	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	x	
		/	X	
		/	X	
		/	X	
		/	X =	
		/	X	
Vas subcontrac	tor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b))
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	

PROJECT NO.: _____ ____VISIT

LOCATION: _____

PROJECT TYPE: Building & Housing ITEM: Ceiling Works DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 600 Suspe	ension			
HBWS-600-01	Conformance to the specified spacing and length of hangers, clips and joists	/	X	
HBWS-600-02	Installed hangers are properly anchored and firm	/	X =	
HBWS-600-03	True to alignment and elevation in conformance to the approved specified tolerance	/	X =	
HBWS-600-04	Free from any form of damages	/	X =	
		/	X	
		/	X	
Item 601 Ceilin	g Board			
HBWS-601-01	Materials free from any form of damages	/	X	
HBWS-601-02	Smooth surface and true to elevation and alignment	/	X =	
HBWS-601-03	Location of holes for utilities conforms to plans	/	X	
HBWS-601-04	Ceiling boards are properly fastened	/	X	
		/	X	
		/	X	
tem 602 Mould	ling			
HBWS-602-01	True to elevation and alignment	/	X	
HBWS-602-02	Installed materials are free from any form of damages	/	X	
		/	X	
		/	X	
		/	X =	
		/	X =	
Nas subcontrac	tor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT NO.: _____ ____VISIT

PROJECT TYPE: Building & Housing ITEM: Ceiling Works LOCATION: _____

DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 603 Painti	ng			
HBWS-603-01	Surface prepared according to specification	/	X =	
HBWS-603-02	Required neutralizers applied	/	X =	
HBWS-603-03	Applied paint appropriate to the surface	/	X =	
HBWS-603-04	Specified number of coats applied	/	X =	
HBWS-603-05	Surfaces evenly painted, proper opacity	/	X =	
HBWS-603-06	No discoloration and peeling-off of paint	/	X =	
HBWS-603-07	Surface are evenly applied with putty/patching compound	/	X	
HBWS-603-08	Paint conform to the requirements	/	X =	
		/	X =	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X =	
		/	X	
		/	X	
Nas subcontrac	tor used? If yes, name of company and owner:	-	Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			– Rate	

PROJECT ID/ NO.: _____ PROJECT TYPE: Building & Housing ____VISIT

LOCATION/LOT:_____

ITEM: Roofing System DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 604 Fram	es			
HBWS-604-01	Conformance to the required size, spacing, slope, anchorage, etc.	/	X	
HBWS-604-02	Free from any form of damage	/	X	
HBWS-604-03	Cleats are properly provided	/	X	
		/	X =	
		/	X =	
Item 605 Shee	ts			
HBWS-605-01	Conformance to the specified gauge, length, etc.	/	X	
HBWS-605-02	Conformance to the specified overlapping, sealing of joints, fastening	/	X	
HBWS-605-03	Installation of flashing, gutters, ridge rolls, downspouts, etc. according to plans	/	X	
HBWS-605-04	Non-occurrence of leaks	/	X	
HBWS-605-05	Free from any form of damage	/	X	
		/	X =	
		/	X =	
Item 606 Tiles				
HBWS-606-01	Conformance to the specified method of installation	/	X	
HBWS-606-02	Non-occurrence of leaks	/	X	
HBWS-606-03	Free from any form of damage	/	X =	
		/	X =	
		/	X	
		/	X	
	tor used? If yes, name of company and owner:			CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/ NO.: _____ PROJECT TYPE: Building & Housing ITEM: Roofing System ____VISIT

LOCATION/LOT:

DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 607 Painti	ng			
HBWS-607-01	Surface prepared according to specifications	/	X	
HBWS-607-02	Specified number of coats applied	/	X	
HBWS-607-03	Evenly painted surfaces	/	X =	
HBWS-607-04	No discoloration and peeling of paint	/	X =	
HBWS-607-05	Paints conforms to requirements	/	X	
		/	X =	
		/	X =	
		/	X =	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X =	
		/	X	
		/	X	
		/	X	
Vas subcontrac	tor used? If yes, name of company and owner:	•	Total Score (a)	CAR Total
	&&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	

PROJECT NO.: _____ ____VISIT

PROJECT TYPE: Building & Housing ITEM: Doors, Windows, Railings LOCATION: _____

DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 700 Doors	5			
HBWS-700-01	True to alignment, plumbness in conformance to the approved/specified tolerance	/	X	
HBWS-700-02	Doors are well fitted to the door frames	/	X =	
HBWS-700-03	Door accessories installed according to plans, e.g. locksets, door closers, hinges, door stoppers	/	X =	
HBWS-700-04	Free from any form of damages	/	X =	
HBWS-700-05	Doors conforms to specification requirements e.g. panel door, flush door polyvinyl, steel doors, etc.	/	x	
		/	X =	
Item 701 Wind	ows			
HBWS-701-01	True to alignment and elevation in conformance to the approved/specified tolerance	/	X	
HBWS-701-02	Windows are well fitted to the window frames	/	X =	
HBWS-701-03	Window accessories installed according to plans, e.g. handles, seals, glazing for glass window, etc.	/	X	
HBWS-701-04	Free from any form of damage	/	X =	
HBWS-701-05	Window conforms to specification requirements, e.g. sliding, jalousies (glass & wooden) steel casement windows	/	X	
		/	X =	
Item 702 Railin	igs			
HBWS-702-01	Installed according to plans	/	X	
HBWS-702-02	Free from dents, scratches or any form of damage	/	X	
HBWS-702-03	Bends and curves are smooth	/	X =	
HBWS-702-04	Conforms to approved tolerance size, dimension, height and type e.g. concrete, steel, stainless, aluminum, etc.	/	X	
		/	X =	
		/	X =	
	tor used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____ PROJECT TYPE: Building & Housing ____VISIT LOCATION:_____

ITEM: Basic Services
DATE OF VISIT: / /

Rate

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 800 Plum	bing			
HBWS-800-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports	/	X	
HBWS-800-02	Conducted and passed the required leak test	/	X	
HBWS-800-03	Pipes not clogged	/	X	
HBWS-800-04	Free from any form of damages	/	X	
HBWS-800-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location	/	X	
HBWS-800-06	Adhesive conform to specification	/	X	
HBWS-800-07	Water closet, lavatory conform to specification	/	X	
		/	X	
		/	X	
Item 801 Sanit	ary			
HBWS-801-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports	/	X	
HBWS-801-02	Conducted and passed the required pressure/leak test	/	X	
HBWS-801-03	Pipes not clogged	/	X	
HBWS-801-04	Free from any form of damages	/	X =	
HBWS-801-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location	/	X	
HBWS-801-06	Adhesive conforms to specification	/	X	
		/	X	
		/	X	
		/	X	
		/	X =	
Was subcontrac	ctor used? If yes, name of company and owner :		=	CAR Total
	_		No. of Indicators (b) =)
Entered by:	Date: / /		Rate = (a) / (b) =	
			Pate	

PROJECT ID/NO.: _____ PROJECT TYPE: Building & Housing ITEM: Basic Services ____VISIT

LOCATION:_____

DATE OF VISIT: / /

Rate

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 802 Electi	rical Works			
HBWS-802-01	Pipes installed according to plans and laid out according to approved construction drawings	/	X	
HBWS-802-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed	/	X	
HBWS-802-03	Pipes properly bended	/	X =	
HBWS-802-04	Allowable number of wires in a pipe properly observed	/	X	
HBWS-802-05	Splicing and connection provided with adequate rubber and pvc tapes	/	X =	
HBWS-802-06	Adequate length of wire provided for termination and splicing	/	X =	
HBWS-802-07	Wire color coding complied and observed	/	X	
HBWS-802-08	Wire insulation not damaged during pulling	/	X	
HBWS-802-09	Adequate number, correct size and gauge of pull boxes installed and properly covered	/	X	
HBWS-802-10	Boxes and enclosures provided according to intended purpose	/	X	
HBWS-802-11	Fittings and accessories provided and properly installed	/	X =	
HBWS-802-12	Block-outs and sleeves provided and properly secured	/	X	
HBWS-802-13	Cable ties provided	/	X	
HBWS-802-14	Blank covers provided for outlets and switches that are not utilized	/	X =	
HBWS-802-15	Use of tools and equipment properly observed	/	X	
HBWS-802-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages	/	X	
HBWS-802-17	Meager, clamp, phase sequence tests and load test conducted	/	X	
HBWS-802-18	Shop drawings, as-built plan maintained	/	X =	
		/	X =	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner :		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b) =	

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2B-17

CPES CHECKLIST FOR WORKMANSHIP

PROJECT ID/NO.: _____ PROJECT TYPE: Building _ PROJECT TYPE: Building LOCATION: _____ ____VISIT

ITEM: Mechanical Works DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 900 Gene	rator Set			
HBWS-900-01	Installation of auxillary, piping and control panel according to plans	/	X	
HBWS-900-02	Installed materials free from any form of damages	/	X =	
HBWS-900-03	Pipes sufficiently braced	/	X =	
HBWS-900-04	Passed the required test	/	X =	
	/ =X	X =		
Item 901 Air-co	onditioning System			
HBWS-901-01	Air-conditioning units, transfer fans, pipes, ducts, condensers, installed according to plans	/	X =	
HBWS-901-02	Jointing of pipes and ducts conform to specified jointing system	/	X	
HBWS-901-03	Pipes and ducts free from leaks	/	X	
HBWS-901-04	Pipes and ducts sufficiently braced/supported	/	X	
HBWS-901-05	Installed materials free from any form of damage	/	X =	
HBWS-901-06	Conducted and passed required tests	/	X	
		/	X	
ltem 902 Eleva	tors			
HBWS-902-01	Installed according to plans	/	X	
HBWS-902-02	Installed cables, pulleys, rails, tracks and bearings free from any form of damage	/	X	
HBWS-902-03	Smooth riding operation	/	X	
		/	X	
		/	X	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b =)
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJ. ID/NO.: _____ VISIT

PROJ. TYPE: BuildingITEM: Sewer & Drainage SystemLOCATION/LOT:_____DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 903 Pipe	Culvert and Storm Drain			
HBWS-903-01	Bedding and backfill materials compacted to the required density	/	X	
HBWS-903-02	Proper jointing of pipes	/	X =	
HBWS-903-03	Mortar for jointing of reinforced concrete culvert pipes conforms to specified mixture type	/	X	
HBWS-903-04	Adequate collaring of reinforced concrete culvert pipes	/	X =	
HBWS-903-05	Conformance to the approved/specified tolerance for elevation, slope, and alignment	/	X	
HBWS-903-06	Cracks, honeycomb, chipping-off within specified tolerances	/	X =	
HBWS-903-07	Sufficient collaring & flushing	/	X	
HBWS-903-08	Conformance to the approved quality of concrete mix	/	X	
HBWS-903-09	Spacing and sizes of rebars conform to specification	/	X	
		/	X	
ltem 904 Manh	oles, Inlets and Catch Basin			
HBWS-904-01	Conformance to approved/specified tolerances for	/	X	
	dimensions, elevations		=	
HBWS-904-02	dimensions, elevations Covers and gratings well fitted and can easily be opened during maintenance work	/	=X =X	
	Covers and gratings well fitted and can easily be opened	/	=X =X =X	
HBWS-904-03	Covers and gratings well fitted and can easily be opened during maintenance work		=	
HBWS-904-03 HBWS-904-04	Covers and gratings well fitted and can easily be opened during maintenance work Honeycomb, cracks, spalling, etc. within specified tolerance	/ / /	=X	
HBWS-904-03 HBWS-904-04	Covers and gratings well fitted and can easily be opened during maintenance work Honeycomb, cracks, spalling, etc. within specified tolerance Conformance to approved quality of concrete mix	/ / / /	=X =X =X	
HBWS-904-02 HBWS-904-03 HBWS-904-04 HBWS-904-05	Covers and gratings well fitted and can easily be opened during maintenance work Honeycomb, cracks, spalling, etc. within specified tolerance Conformance to approved quality of concrete mix Spacing and sizes of rebars conform to specification	/ / / /	=X =X =X =X =X	
HBWS-904-03 HBWS-904-04 HBWS-904-05	Covers and gratings well fitted and can easily be opened during maintenance work Honeycomb, cracks, spalling, etc. within specified tolerance Conformance to approved quality of concrete mix Spacing and sizes of rebars conform to specification	/ / / /	=X =X =X =X =X	
HBWS-904-03 HBWS-904-04 HBWS-904-05 Item 905 Fenci HBWS-905-01	Covers and gratings well fitted and can easily be opened during maintenance work Honeycomb, cracks, spalling, etc. within specified tolerance Conformance to approved quality of concrete mix Spacing and sizes of rebars conform to specification <i>ng, Gates</i> Conformance to the approved/specified tolerance for	/ / / / /	=X =X =X =X =X =X	
HBWS-904-03 HBWS-904-04 HBWS-904-05 Hem 905 Fenci HBWS-905-01 HBWS-905-02	Covers and gratings well fitted and can easily be opened during maintenance work Honeycomb, cracks, spalling, etc. within specified tolerance Conformance to approved quality of concrete mix Spacing and sizes of rebars conform to specification ng, Gates Conformance to the approved/specified tolerance for alignment, dimension and elevation	/ / / / /	=X =X =X =X =X =X =X =X =X	CAR Total
HBWS-904-03 HBWS-904-04 HBWS-904-05 Item 905 Fenci HBWS-905-01 HBWS-905-02 Was subcontrac	Covers and gratings well fitted and can easily be opened during maintenance work Honeycomb, cracks, spalling, etc. within specified tolerance Conformance to approved quality of concrete mix Spacing and sizes of rebars conform to specification <i>ng, Gates</i> Conformance to the approved/specified tolerance for alignment, dimension and elevation Installed according to plans and specifications	/ / / / /	=X =X =X =X =X =X =X =X =X =X =X =X =X =X	CAR Total

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Rockworks DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 100 Breakwate	er, Bulkhead, Causeway, Jetty Groin, Shore, Protection Works, i.e.,			
	prap, rubble, stone masonry)			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defect	ts	
PHWS-100-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=X	
PHWS-100-02	Conformance to the design elevations	/	=X	
PHWS-100-03	Conformance to the side slopes or berm as per design and specifications	/	=X	
PHWS-100-04	Conformance to the location as per design and specifications	/	=X	
PHWS-100-05	Conformance to the alignment as per design and specifications	/	=X	
PHWS-100-06	Conformance to the rock placement methodology and/or construction methodology	/	=X	
PHWS-100-07	Compliance/conformance to the designed foundation, e.g. toe	/	=X	
		/	X	
Vinor				
PHWS-100-01	Conformance within approved/specified tolerance for cross-section	/	=X	
PHWS-100-02	Conformance within approved/specified tolerance for elevation	/	=X	
PHWS-100-05	Conformance within approved/specified tolerance for alignment	/	=X	
PHWS-100-08	Provision of adequate bedding as required	/	=X	
PHWS-100-09	Non-occurrence of displaced/sucked-out rocks	/	=X	
PHWS-100-10	Conformance within approved/specified tolerance of in-between gaps for rocks in-place	/	=X	
PHWS-100-11	Provision of settlement plates/blocks	/	=X	
		/	=^	
		/	=X	
		/	=^	
		/	=X	
		/	=^ X	
		/	= Total Score (a)	CAR Total
	r used? If yes, name of company and owner:		= No. of Indicators (b)	
	Date: / /		= Rate = (a) / (b)	
			= Rate	
			=	I

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Rockworks DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 101 Gabions				
<i>Major*</i>	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defect	ts	
PHWS-101-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=X	
PHWS-101-02	Conformance to the design elevations	/	=X	
PHWS-101-03	Conformance to the location as per design and specifications	/	=X	
PHWS-101-04	Conformance to the alignment as per design and specifications	/	=X	
PHWS-101-05	Conformance to the wire mesh cage fabrication requirements (alignment, lapping, etc.)	/	=X	
PHWS-101-06	Proper construction methodology, e.g., placing of rock fill materials, lapping and twisting of mesh wire	/	=X	
PHWS-101-07	Conformance to minimum density requirements (in kg./cu.m.) for filled gabions	/	=X	
		/	X	
		/	X	
		/	X	
Minor				
PHWS-101-01	Conformance within the approved/specified tolerance for cross- sectional dimensions	/	=X	
PHWS-101-02	Conformance within the approved/specified tolerance for elevations	/	=X	
PHWS-101-04	Conformance within the approved/specified tolerance vs. the actual alignment	/	=X	
PHWS-101-08	Provision of adequate bedding as required	/	=X	
		/	X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Piers/Wharves/Slipways DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 200 R.C. Piles				
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defec	ts	
PHWS-200-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=X	
PHWS-200-02	Conformance to the design length as per design and specifications	/	=X	
PHWS-200-03	Conformance to the minimum required embedment of spliced joint	/	=X	
PHWS-200-04	Use of metal collar and/or protective caps during driving	/	=X	
PHWS-200-05	Attainment of required pile penetration/bearing capacity	/	=X	
PHWS-200-06	Pile shoe is provided for each pile	/	=X	
PHWS-200-07	Conformance to required number of piles supplied and driven in-place	/	X	
PHWS-200-08	Lifting of each pile is at designed lifting points	/	X	
PHWS-200-09	Vertical piles are driven plumb	/	X	
PHWS-200-10	Batter piles are driven in accordance with the designed slope	/	x	
		/	X	
		/	X	
Minor			-	
PHWS-200-01	Conformance within the approved/specified tolerance for dimension	/	=X	
PHWS-200-02	Conformance within the approved/specified tolerance for pile length	/	X	
PHWS-200-09	Conformance within the approved/specified tolerance for plumbness/verticality	/	X	
PHWS-200-10	Conformance within the approved/specified tolerance for slope of the batter piles	/	X	
PHWS-200-11	Proper graduation/markings	/	X	
PHWS-200-12	Steel lifting hooks are cut-off and applied with approved type of sealant	/	X	
PHWS-200-13	Alignment of the piles driven in-place are within the approved/specified tolerance	/	X	
PHWS-200-14	Pile cut-off elevations are chipped-off properly. Free from excessive chipping below the cut-off elevations	/	X	
		/	X	
		/	X	
		/	X	
		/	x	
Mas subcontracto	or used? If yes, name of company and owner:		= Total Score (a) =	CAR Total
			 No of Indicators (b) 	
Entered by:	Date: / /		= Rate = (a) / (b)	
			= Rate	
			_	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM:Piers/Wharves/Slipways DATE OF VISIT: / /

-actor : "During	Construction" = 0.40; "Upon Completion" = 0.50		1	-
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 201 Timber Pi	les			
Major	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defect	ts	
PHWS-201-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=X	
PHWS-201-02	Conformance to the design length as per design and specifications	/	=X	
PHWS-201-03	Use of metal collar and/or protective caps during driving	/	=X	
PHWS-201-04	Attainment of required pile penetration/bearing capacity	/	=X	
PHWS-201-05	Conformance to the required number of piles supplied and driven in-place	/	=X	
PHWS-201-06	Lifting is at designated lifting points of each pile	/	=X	
PHWS-201-07	Vertical piles are driven plumb	/	X	
PHWS-201-08	Batter piles are driven in accordance with the designed slope	/	=X	
PHWS-201-09	No massive splitting is visible perpendicular to the pile length	/	=X	
		/	X	
		/	X	
Minor				
PHWS-201-01	Conformance within the approved/specified tolerance for dimension	/	=X	
PHWS-201-02	Conformance within the approved/specified tolerance for pile length	/	=X	
PHWS-201-07	Conformance within the approved/specified tolerance for plumbness/verticality	/	=X	
PHWS-201-08	Conformance within the approved/specified tolerance for slope of the batter piles	/	=X	
PHWS-201-10	Proper graduation/markings	/	=X	
PHWS-201-11	Alignment of the piles driven in-place are within the approved/specified tolerance	/	=X	
PHWS-201-12	Pile butt is free from brooming	/	=X	
		/	=X	
		/	=X	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:	-	Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	1
				-

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Ports and Harbor LOCATION:_____

ITEM: Piers/Wharves/Slipways DATE OF VISIT: / /

actor . During	Construction" = 0.40; "Upon Completion" = 0.50	1		
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 202 Steel Pil	es			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defec	ts	
PHWS-202-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=X	
PHWS-202-02	Conformance to the design length as per design and specifications	/	=X	
PHWS-202-03	Use of metal collar and/or protective caps during driving	/	=X	
PHWS-202-04	Attainment of required pile penetration/bearing capacity	/	=X	
PHWS-202-05	Conformance to the splicing requirements as per design and specifications	/	=X	
PHWS-202-06	Conformance to required number of piles supplied and driven in-place	/	=X	
PHWS-202-07	Lifting of each pile is at designed lifting points	/	=X	
PHWS-202-08	Vertical piles are driven plumb	/	=X	
PHWS-202-09	Batter piles are driven in accordance with the specified slope	/	=X	
PHWS-202-10	Driven piles are free from massive dents or damages	/	=X	
PHWS-202-11	Each pile is properly applied with protective coating as required	/	=X	
		/	=X	
		/	X	
Minor				
PHWS-202-01	Conformance within the approved/specified tolerance for dimension	/	=X	
PHWS-202-02	Conformance within the approved/specified tolerance for pile length	/	=X	
PHWS-202-08	Conformance within the approved/specified tolerance for plumbness/verticality	/	=X	
PHWS-202-09	Conformance within the approved/specified tolerance for slope of the batter piles	/	=X	
PHWS-202-12	Proper graduation/markings	/	=X	
PHWS-202-13	Alignment of the piles driven in-place are within the approved/specified tolerance	/	=X	
PHWS-202-14	Pile cut-off are properly cut with appropriate cutting outfits at the established pile cut-off elevations	/	=X	
		/	=X	
	r used? If yes, name of company and owner:	-	Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			=	

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Piers/Wharves/Slipways DATE OF VISIT: / /

Lotor . During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monito
tem 203 Timber	Structural Member			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defec		
PHWS-203-01	Non-apperance of decay or insect attack	/	=X	
PHWS-203-02	Non-apperance of massive splitting	/	=X	
PHWS-203-03	Non-apperance of bends or warping	/	X	
PHWS-203-04	Conformance with the cross-sectional dimensions per design and specifications	/	X	
PHWS-203-05	Conformance to the design length as per design and specifications	/	=X	
PHWS-203-06	Splicing/lapping is in accordance with the design and specifications	/	=X	
PHWS-203-07	Conformance with the installation fixtures including fittings	/	=X	
Minor				
PHWS-203-04	Conformance within the specified tolerance for cross-sectional dimensions	/	=X	
PHWS-203-05	Conformance within the specified tolerance for length	/	=X	
		/	=X	
tem 204 Metal St	ructural Member			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defec	ts	
PHWS-204-01	Conformance with the cross-sectional dimensions per design and specifications	/	=X	
PHWS-204-02	Conformance to the design length as per design and specifications	/	=X	
PHWS-204-03	Connections or joints are welded in accordance with the design and specifications	/	=X	
PHWS-204-04	Splicing/lapping is in accordance with the design and specifications	/	X	
PHWS-204-05	Non-occurrence of bending or warping, cracking on metal and fixings	/	=X	
PHWS-204-06	Non-occurrence of cracks on metal and fixings	/	=X	
PHWS-204-07	Non-occurrence of cracks on metal components and fixtures	/	=X	
PHWS-204-08	Non-occurrence of corrosion	/	=X	
Minor				
PHWS-204-01	Conformance within the specified tolerance for cross-sectional dimensions	/	=X	
PHWS-204-02	Conformance within the specified tolerance for length	/	=X	
PHWS-204-08	Non-occurrence of rust	/	=X	
PHWS-204-09	Sufficient coating applied for rust protection	/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
				1

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Ports and Harbor LOCATION: _____ ITEM: Protective Works DATE OF VISIT: / /

	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 300 Rubber	Dock Fender, Rubber Fender on RC Pile			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defec	ts	
PHWS-300-01	Conformance with the cross-sectional dimensions per design and specifications	/	=X	
PHWS-300-02	Conformance to the design length as per design and specifications	/	=X	
PHWS-300-03	Free from damages such as chipped-off edges, etc. during transport and handling	/	X	
PHWS-300-04	Installation in accordance with the locations as per design and specifications	/	=X	
PHWS-300-05	Installation in accordance with the designed elevation	/	X	
PHWS-300-06	Proper alignment of installed fenders	/	=X	
PHWS-300-07	Complete installation of fixtures and accessories	/	=X	
		/	=X	
Minor				
PHWS-300-01	Conformance within the specified tolerance for cross-sectional dimensions	/	X	
PHWS-300-02	Conformance within the specified tolerance for length	/	=X	
		/	=X	
		/	=X	
tem 301 Timber	Pile Fender, Rubbing Timber, Timber Wailing			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defec	ts	
PHWS-301-01	Non-appearance of decay or insect attack	/	=X	
PHWS-301-02	Non-apperance of massive splitting	/	X	
PHWS-301-03	Non-apperance of bends or warping	/	=X	
PHWS-301-04	Conformance with the cross-sectional dimensions per design and specifications	/	=X	
PHWS-301-05	Conformance to the design length as per design and specifications	/	X	
		/	X	
Minor				
PHWS-301-04	Conformance within the specified tolerance for cross-sectional dimensions	/	X	
PHWS-301-05	Conformance within the specified tolerance for length	/	X	
PHWS-301-06	No chipped-off edges	/	=X	
		/	=X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
merea by:	Date: / /		Rate = (a) / (b)	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Protective Works DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 302 Mooring	J Fixture: Cleat, Post, Bitt, Bollard			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defec	ts	
PHWS-302-01	Supplied/installed mooring fixtures in accordance with the plans and specifications	/	=X	
PHWS-302-02	Conformance to the required number of anchor bolts, nuts and washers in accordance with the plans and specifications	/	=X	
PHWS-302-03	Conformance to pedestal/foundation requirements in accordance with the plans and specifications	/	=X	
PHWS-302-04	Conformance to the anchoring/embedment requirements of the anchor bolts	/	=X	
PHWS-302-05	Conformance to the number of mooring fixtures in accordance with the plans and specifications	/	=X	
PHWS-302-06	Conformance to the location of the mooring fixtures in accordance with the plans and specifications	/	=X	
PHWS-302-07	Conformance to the type and installation requirements for sealers of anchor bolts and nuts	/	X	
PHWS-302-08	Non-occurrence of corrosion	/	=X	
PHWS-302-09	Non-occurrence of damages e.g. breakage, cracks or chipped-off portions on the mooring fixtures including accessories	/	X	
		/	=X	
Minor				
PHWS-302-01	Supplied/installed mooring fixtures and accessories within the approved/specified tolerances	/	=X	
PHWS-302-03	Conformance to pedestal/foundation within the approved/specified tolerances	/	=X	
PHWS-302-08	Non-occurrence of rust	/	=X	
		/	=X	
		/	=X	
ltem 303 Filter Fa	bric/Reinforcing Mattress			
Minor				
PHWS-303-01	Conformance to the elevation and extent of application as shown on the plan	/	=X	
PHWS-303-02	Conformance to the required installation procedure, e.g. lapping requirement, etc.	/	=X	
PHWS-303-03	Installed material is free from damage e.g. tears or holes	/	=X	
		/	=X	
Minor				
PHWS-303-04	Installed material is not exposed to traffic loads	/	=X	
		/	=X	
		/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /		= Rate = (a) / (b)	
•			=	

VISIT

PROJECT ID/NO.:_____ PROJECT TYPE: Ports and Harbor LOCATION:_____

ITEM: Protective Works DATE OF VISIT: / /

ractor : "During	Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action Monitor
Item 304 Stair La	nding/Ladder			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defec	ts	
PHWS-304-01	Conformance to the dimensions as per design and specifications	/	=X	
PHWS-304-02	Conformance to the required number of steps, risers	/	=x	
		/	=X	
		/	=X	
Minor				
PHWS-304-01	Conformance within the approved/specified tolerance for dimensions	/	=X	
		/	=X	
	For reinforced concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	X	
		/	=X	
		/	=X	
		/	=X	
Item 305 Bulkhe	ad Curves and Deflector Wall			
<i>Major*</i>	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defec		
PHWS-305-01	Conformance to the dimensions as per design and specifications	/	=X	
		/	=X	
		/	=X	
Minor	Conformance within the energy of lange ified to be needed for			
PHWS-305-01	Conformance within the approved/specified tolerance for dimensions	/	=X	
		/	=X	
	For reinforced concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	=X	
		/	=X	
		/	=X	
		/	=X	
			=X =X =X	
	r used? If yes, name of company and owner:	/	=X =X = Total Score (a) =	CAR Total
		/	=X =X = Total Score (a) = No. of Indicators (b) =	CAR Total
		/	=X =X = Total Score (a) =	CAR Total

_____VISIT

PROJECT ID/NO.:____ PROJECT TYPE: Ports and Harbor LOCATION:_____

ITEM: Roll-on / Roll-off DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 400 Roll-on	/ Roll-off			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defect	ts	
PHWS-400-01	Conformance with the ramp dimensions in accordance with the plans and specifications	/	X	
PHWS-400-02	Conformance with the deck inclination in accordance with the plans and specifications	/	X	
PHWS-400-03	Conformance with the ramp location in accordance with the plans and specifications	/	=X	
		/	=X	
		/	=X	
		/	X	
Minor				
PHWS-400-01	Conformance within the approved/specified tolerance for dimensions	/	=X	
PHWS-400-02	Conformance within the approved/specified tolerance for deck inclination	/	=X	
		/	=X	
		/	=X	
	For reinforced concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902	/	=X	
		/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
	or used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	

_____VISIT

PROJECT ID/NO.:____ PROJECT TYPE: Ports and Harbor LOCATION:_____

ITEM: Electrical Works DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 500 Lighting	System (includes lighting tower)			
<i>Major*</i>	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	aior Defec	ts	
PHWS-500-01	Supplied/installed type of lamps in accordance with the design and	/	X	
PHWS-500-02	specifications Supplied/installed number of lamps in accordance with the design	/	= X	
PHWS-500-03	and specifications Conformance to the cross-sectional dimensions of lighting poles in	,	= X	
PHWS-500-04	accordance with the design and specifications Conformance to the height/length of lighting poles in accordance	/	= X	
PHWS-500-05	with the design and specifications Conformance to the location of lighting poles in accordance with	/	= X	
PHWS-500-05	the design and specifications Lighting poles are erected plumb	/	= X	
11100-00-00		/	=	
PHWS-500-07	Conformance to the wiring sizes in accordance with the design and specifications	/	=X	
PHWS-500-08	Conformance with electrical fixtures (e.g. switches, wire cables, load break switch, power fuse)	/	=X	
PHWS-500-09	Electrical wiring installed are fully insulated e.g. insulation are not peeled-off	/	=X	
PHWS-500-10	Electrical conduits and pipes conformed with the design and specifications	/	=X	
		/	=X	
		/	=X	
Minor				
PHWS-500-03	Conformance within the approved/specified tolerance for dimensions of lighting poles	/	=X	
PHWS-500-04	Conformance within the approved/specified tolerance for height/length of lighting poles	/	=X	
PHWS-500-06	Conformance within the approved/specified tolerance for plumbness of lighting poles	/	=X	
PHWS-500-11	Conformance with the illumination distribution or direction of illumination in accordance with the design and specs	/	=X	
PHWS-500-12	Lighting poles and cage platforms properly coated against rust in accordance with the plans and specifications	/	=X	
		/	=X	
		/	=X	
	For r.c. pedestals and foundation of lighting poles, r.c. ductbanks and r.c. handholes: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	

_____VISIT LOCATION:_____

PROJECT ID/NO.:_____ PROJECT TYPE: Ports and Harbor

ITEM: Electrical Works DATE OF VISIT: / /

	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
Sub-item Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Action Monitor
em 501 Reefer C Power Panel)	Container Power Terminal (Receptacle-Socket Outlet			
lajor				
PHWS-501-01	Compliance with the quantity of Receptacle-Socket Outlets as required in the design and specifications	/	=X	
PHWS-501-02	Compliance with the quality requirements of Receptacle-Socket Outlets as indicated in the design and specifications	/	=X	
		/	=X	
		/	X	
	For reinforced concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902		-	
		/	=X	
	For steel racks: refer to PHWS 204			
		/	X	
	For electrical works: refer to PHWS 903			
		/	=X	
		/	X	
		/	=X	
		/	=X X	
		/	=^	
		/	=X	
		/	= Total Score (a)	CAR Total
	r used? If yes, name of company and owner:		= No. of Indicators (b)	
	Date: / /		= Rate = (a) / (b)	
· ,			=	
			Rate	

VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Ports and Harbor LOCATION:_____

ITEM: Electrical Works DATE OF VISIT: / /

Factor : "During				
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	rm System (Manual Stations, Fire Alarm Bells, Control Panels, tors, Pre-design Horn, Visual Anusciator, Power Supply)			
PHWS-502-01	Compliance with the number of automatic detectors as required in the design and specifications	/	X	
PHWS-502-02	Compliance with the number of sprinklers as required in the design and specifications		=X	
PHWS-502-03	Compliance with the number of fire alarms/bells as required in the design and specifications		X	
PHWS-502-04	Compliance with the installation for detectors as required in the design and specifications		X	
PHWS-502-05	Compliance with the installation for sprinkler system as required in the design and specifications	/	X	
PHWS-502-06	Compliance with the type of power supply for the alarm system as required in the design and specifications	/	X	
PHWS-502-07	Compliance with the installation of water supply system for fire emergencies as required in the design and specifications	/	=X	
PHWS-502-08	Compliance with the installation of water piping inlets/outlets for fire emergencies as required in the design and specs	/	X	
		/	X	
		/	=X	
		/	=X	
tem 503 Transfo	rmer (Voltage, phase, load capacity, types, location fencing)			
Major				
PHWS-503-01	Compliance with the voltage rating input/output as required in the design and specifications	/	=X	
PHWS-503-02	Compliance with the number of phase as required in the design and specifications	/	X	
PHWS-503-03	Compliance with the load capacity as required in the design and specifications	/	X	
PHWS-503-04			=	
	Compliance with the location and installation as required in the design and specifications	1	= X =	
PHWS-503-05	Compliance with the location and installation as required in the	1	=X =X =X	
PHWS-503-05	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as	1	=X =X =X	
PHWS-503-05	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as	/	=X	
PHWS-503-05	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as	/ /	=X =X =X	
PHWS-503-05	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as required in the design and specifications	/ /	=X =X =X	
PHWS-503-05	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as required in the design and specifications	/ / /	=X =X =X =X =X =X	
PHWS-503-05	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as required in the design and specifications	/ / / /	=X =X =X =X =X =X =X	
PHWS-503-05	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as required in the design and specifications	/ / / / /	=X =X =X =X =X =X =X =X =X	
	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as required in the design and specifications For electrical works: refer to PHWS 903	/ / / / /	=X =	CAR Total
Vas subcontracto	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as required in the design and specifications For electrical works: refer to PHWS 903 r used? If yes, name of company and owner:	/ / / / /	=X =X =X =X =X =X =X =X =X	CAR Total
Vas subcontracto	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as required in the design and specifications For electrical works: refer to PHWS 903	/ / / / /	=X =	CAR Total
Vas subcontracto	Compliance with the location and installation as required in the design and specifications Compliance with the circuit safety protection and accessories as required in the design and specifications For electrical works: refer to PHWS 903 r used? If yes, name of company and owner:	/ / / / /	=X =X_	CAR Total

_____VISIT

PROJECT ID/NO.:____ PROJECT TYPE: Ports and Harbor LOCATION:_____

ITEM: Electrical Works DATE OF VISIT: / /

tem 504 Protection System for Outdoor Electrical Works (Lightning arrester, Grounding wire/rod, Air Terminal complete with accessories) Image: Conformance to the type/size of lightning arresters installed as / =	Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Agior Conformance to the type/size of lightning arresters installed as /		on System for Outdoor Electrical Works (Lightning arrester,			
PHWS-504-01 Conformance to the type/size of lightning arresters installed as required in the design and specifications /	-	od, Air Terminal complete with accessories)			
PHWS-504-02 required in the design and specifications // =		Conformance to the type/size of lightning arresters installed as	,	X	
PHWS-504-02 required in the design and specifications / = <	PHWS-504-01		/	=	
PHWS-504-05 design and specifications / =	PHWS-504-02	required in the design and specifications	/	=X	
PHWS-504-05 Conformance to the wire splicing requirements as required in the design and specifications / = PHWS-504-05 Conformance to the wire splicing requirements as required in the design and specifications / = PHWS-504-05 Conformance to the wire splicing requirements as required in the design and specifications / = PHWS-504-05 Conformance to the wire splicing requirements as required in the design and specifications / = PHWS-504-05 For electrical works: refer to PHWS 903 // = For electrical works: refer to PHWS 903 // = // =	PHWS-504-03	design and specifications	/	=X	
PHWS-504-05 design and specifications / =	PHWS-504-04	required in the design and specifications	/	=X	
// =	PHWS-504-05		/	=X	
For electrical works: refer to PHWS 903 //			/	=X	
Image: space of company and owner: /			/	X	
/ = // = </td <td></td> <td>For electrical works: refer to PHWS 903</td> <td></td> <td></td> <td></td>		For electrical works: refer to PHWS 903			
// =			/	=X	
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Vas subcontractor used? If yes, name of company and owner: = &			/	=	015 -
=				=	CAR Total
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Intered by: Date: / Rate = (a) / (b) = Rate Rate Rate Rate	mereu by:			=	

PROJECT ID/NO.: _____ PROJECT TYPE: Ports and Harbor _____VISIT LOCATION: _____

ITEM: Mechanical Works DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 600 Stand-b	y Generators System			
Major				
PHWS-600-01	Conformance to the rated capacity of the generator set as required in the design and specifications	/	=X	
PHWS-600-02	Conformance to the engine type and engine power requirements as required in the design and specifications	/	=X	
PHWS-600-03	Conformance to the exhaust piping system as required in the design and specifications	/	=X	
		/	X	
	For foundation and housing requirements of the generator set: refer to PHWS 900, 901, 902, 904, 905, 906, 907, 908 and 909			
		/	=X	
	For electrical works: refer to PHWS 903			
		/	X	
		/	X	
		/	X	
tem 601 A.C. Sys	stem / Cold Storage			
Major				
PHWS-601-01	Conformance with the quantity of cooling equipment as required in the design and specifications	/	=X	
PHWS-601-02	Conformance with the required type/class of cooling equipment as required in the design and specifications	/	=X	
PHWS-601-03	Conformance with the installation location of equipment as required in the design and specifications	/	=X	
PHWS-601-04	Dimensions of the ducting are in accordance with the plans	/	=X	
		/	=X	
		/	X	
Minor				
PHWS-601-05	Ventilation/air ducting are free from leaks	/	X	
PHWS-601-06	Ducting is provided with insulation as required	/	X	
		/	=X	
	For metal sheet ducting: refer to PHWS 910			
		/	=X	
	For electrical works: refer to PHWS 903			
		/	=X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	

 PROJECT ID/NO.:
 PROJECT TYPE: Ports and Harbor

 _____VISIT
 LOCATION:

ITEM: Mechanical Works DATE OF VISIT: / /

Sub-item Code em 602 Mechan ood, Elevator Ex lajor PHWS-602-01 PHWS-602-02	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). ical Ventilation (Roof Exhaust Fans, Kitchen Exhaust, Range chaust Fan) Installed equipment and accessories are free from damage e.g. dents Conformance to the size and shape as required in the design and specifications	Results	Score x factor	Action Monitor
ood, Elevator Ex lajor PHWS-602-01 PHWS-602-02	thaust Fan) Installed equipment and accessories are free from damage e.g. dents Conformance to the size and shape as required in the design and	/	=X	
PHWS-602-01	Installed equipment and accessories are free from damage e.g. dents Conformance to the size and shape as required in the design and		X	
PHWS-602-01	dents Conformance to the size and shape as required in the design and		=X	
		/		1
			=X	
		/	=X	
		/	=X	
	For metal sheet ducting: refer to PHWS 910			
		/	=X	
		/	=X	
		/	=X X	
		/	=^	
		/	=^ X	
		/	=X	
		/	=X	
		/	=X	
		/	= X	
		,	=X	
		/	= X	
/as subcontractor	used? If yes, name of company and owner:		= Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
ntered by:	Date: / /		Rate = (a) / (b) =	

PROJECT ID/NO.: _____ PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Reclamation Works DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 700 Reclama	ation Works			
Major				
PHWS-700-01	Excavation/displacement of unsuitable materials to required depth	/	=X	
PHWS-700-02	Use of suitable filling materials	/	=X	
PHWS-700-03	Unsuitable materials are properly segregated from the other materials to be used for the project	/	X	
PHWS-700-04	Unsuitable materials are properly disposed to the approved disposal site	/	X	
PHWS-700-05	Conformance to lines and grades as per plans and specifications	/	X	
PHWS-700-06	Installed approved surcharge materials, drain materials	/	X	
PHWS-700-07	Provision of drainage for surface run-off	/	X	
PHWS-700-08	Adequate compaction above sea level	/	x	
		/	X	
		/	x	
Minor				
PHWS-700-09	Provision of settlement plate	/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE: Ports and Harbor LOCATION: _____ ITEM: Dredging Works DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

	Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 710 Dredgin	ng Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defect	ts	
PHWS-710-01	Conformance to the dredging limits or areas to be dredged	/	X	
PHWS-710-02	Conformance to the dredged depth as per plans and specifications	/	X	
PHWS-710-03	Conformance to the appropriate dredging and support equipments as per specifications	/	X	
PHWS-710-04	Proper disposal of dredged materials to the designated disposal area/site	/	=X	
		/	=X	
		/	=X	
Minor				
PHWS-710-02	Conformance to the allowable or approved tolerance for dredged depth	/	=X	
PHWS-710-05	Marking buoys evident on designated areas to be dredged	/	X	
		/	=X	
		/	X	
		/	X	
		/	=X	
	or used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
<pre>=ntered by:</pre>	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Special Items
DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	Type Breakwater (Formworks, Rebars, Concrete Bedding and			
Alling Materials	 see common items of work for checklists/criteria) 			
PHWS-800-01	Conformance to the approved/specified tolerances for lines, grades and elevation	/	=X	
		/	X	
	For concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	X	
		/	X	
		/	=X	
tem 801 Concret	e Blocks/Tetropods (Dissipators)			
		/	=X	
	For concrete structure: refer to Common Items of Work - PHWS 900, 901 and 902			
		/	=X	
		/	=X	
		/	=X	
tem 802 Navigati	ional Aids (Beacon Poles and Lighting Fixtures, Marking Buoys)			
PHWS-802-01	Conformance to required location of Beacon Poles and Lighting Fixtures and Marking Buoys	/	=X	
PHWS-802-02	Conformance to the required cross-section and details	/	=X	
PHWS-802-03	Conformance to the required effective intensity of navigational light	/	=X	
PHWS-802-04	Conformance to the required luminous range of navigational light	/	=X	
PHWS-802-05	Conformance to the required number of flashes/flashing sign and color of navigational light	/	X	
PHWS-802-06	Conformance to the required installation method	/	=X	
		/	X	
		/	= Total Score (a)	CAR Total

Entered by:_____

Date: / /

Rate = (a) / (b) Rate

PROJECT ID/NO.: _____ _____VISIT PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Common Items of Work DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 900 Formwo	vrks			
PHWS-900-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	X	
PHWS-900-02	Forms coated with mould oil as required	/	=X	
PHWS-900-03	Sufficient bracing/support provided	/	=X	
PHWS-900-04	No loose knots, splits, cracks, etc.	/	=X	
PHWS-900-05	Provision of required concrete or steel spacer	/	=X	
PHWS-900-06	Conformance to dimensions, location, plumbness and alignment	/	=X	
PHWS-900-07	Provision of camber during construction stage	/	=X	
		/	=X	
		/	=X	
		/	=X	
tem 901 Reinford concrete)	cing Steel Bars (including tendons for Pre/Post-stressed			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defect	S	
PHWS-901-01	Conformance of in-placed materials to plans & specifications	/	=X	
PHWS-901-02	Non-appearance of corrosion on steel reinforcement	/	=X	
Minor				
PHWS-901-02	Non-appearance of rust on steel reinforcement	/	=X	
PHWS-901-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	=X	
PHWS-901-04	No sign of oil, paint and other deleterious materials on reinforcements	/	=X	
PHWS-901-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	=X	
PHWS-901-06	Conformance to the required installation of ducktube e.g. (spacing, location and distance)	/	X	
PHWS-901-07	Conformance to the required steel plate and lock	/	X	
PHWS-901-08	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	/	X	
		/	=X	
		/	=X	
		/	=X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	

PROJECT ID/NO.: _____ _____VISIT PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Common Items of Work DATE OF VISIT: / /

PHWS-902-02 PHWS-902-03 PHWS-902-04 PHWS-902-04 PHWS-902-05 PHWS-902-05	Works * Refer to Section 11.4.a of the CPES Guidelines for definition of Ma No through cracks No honeycomb or spalling (no exposed rebars/aggregates) No chipping off of concrete cover Proper and adequate vibration Conformance to finishing/plastering requirement No sagging or bulging	ijor Defect / / / /	=X =X =X =X =X	
PHWS-902-01 PHWS-902-02 PHWS-902-03 PHWS-902-03 PHWS-902-04 PHWS-902-05	No through cracks No honeycomb or spalling (no exposed rebars/aggregates) No chipping off of concrete cover Proper and adequate vibration Conformance to finishing/plastering requirement	/ / /	=X =X =X =X =X	
PHWS-902-02 PHWS-902-03 PHWS-902-04 PHWS-902-04 PHWS-902-05 PHWS-902-05	No honeycomb or spalling (no exposed rebars/aggregates) No chipping off of concrete cover Proper and adequate vibration Conformance to finishing/plastering requirement	/ / /	=X =X =X =X	
PHWS-902-03 PHWS-902-04 PHWS-902-05 C	No chipping off of concrete cover Proper and adequate vibration Conformance to finishing/plastering requirement	/ /	=X =X =X	
PHWS-902-04 F	Proper and adequate vibration Conformance to finishing/plastering requirement	/	=X	
PHWS-902-05 (Conformance to finishing/plastering requirement		=	
		/		
PHWS-902-06	No sagging or bulging		=X	
		/	=X	
	Conformance to the required concrete cover for rebars	/	X	
PHV/S-902-08	Conformance to the batching, mixing, transporting and discharge time requirements	/	X	
	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	=X	
PHWS-902-10	Conformance to the jointing requirement	/	=X	
PHWS-902-11 F	Proper curing	/	=X	
	Conformance to required dimensions, lines, grades/elevation locations and crown (for pier)	/	=X	
PHWS-902-13	Conformance to the required quality of concrete mix	/	=X	
PHWS-902-14	Provision of camber for RCDG	/	=X	
		/	X	
Minor				
PHWS-902-01	No cracks	/	=X	
PHWS-902-02	No honeycomb or spalling	/	=X	
PHWS-902-06	No sagging or bulging	/	=X	
PHWS-902-15	No water ponding on bearing plates	/	=X	
PHWS-902-16	Conformance to elevation of expansion joints	/	=X	
		/	=X	
	used? If yes, name of company and owner: &		Total Score (a) No. of Indicators (b)	CAR Total
Entered by:	Date: / /		Rate = (a) / (b) =	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Electrical Works DATE OF VISIT: / /

	INDICATORS		Score	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Action Monitor
tem 903 Electric	al Works			
PHWS-903-01	Pipes installed according to plans and laid out according to approved construction drawings	/	=X	
PHWS-903-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed	/	=X	
PHWS-903-03	Pipes properly bended	/	=X	
PHWS-903-04	Allowable number of wires in a pipe properly observed	/	=X	
PHWS-903-05	Splicing and connection provided with adequate rubber and pvc tapes	/	=X	
PHWS-903-06	Adequate length of wire provided for termination and splicing	/	=X	
PHWS-903-07	Wire color coding complied and observed	/	=X	
PHWS-903-08	Wire insulation not damaged during pulling	/	=X	
PHWS-903-09	Adequate number, correct size and gauge of pull boxes installed and properly covered	/	=X	
PHWS-903-10	Boxes and enclosures provided according to intended purpose	/	=X	
PHWS-903-11	Fittings and accessories provided and properly installed	/	=X	
PHWS-903-12	Block-outs and sleeves provided and properly secured	/	=X	
PHWS-903-13	Cable ties provided	/	=X	
PHWS-903-14	Blank covers provided for outlets and switches that are not utilized	/	=X	
PHWS-903-15	Use of tools and equipment properly observed	/	=X	
PHWS-903-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages	/	=X	
PHWS-903-17	Meager, clamp, phase sequence tests and load test conducted	/	=X	
PHWS-903-18	Shop drawings, as-built plan maintained	/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
<pre>intered by:</pre>	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____

PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Common Items of Work DATE OF VISIT: / /

Tuotor : Burng	Construction" = 0.40; "Upon Completion" = 0.50			
	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of	5	Score	Action
Sub-item Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monitor
Item 904 CHB Wa	11			
Major				
PHWS-904-01	Conformance to required quality of CHB	/	=X	
PHWS-904-02	Conformance to required quality mortar mix	/	=X	
		/	=X	
		/	=X	
Minor				
PHWS-904-03	Conformance to specified tolerances for dimension, location, plumbness and alignment	/	=X	
PHWS-904-04	Proper spacing of horizontal and vertical bars	/	=X	
PHWS-904-05	Rebars used free from corrosion	/	=X	
		/	=X	
		/	=X	
		/	=X	
Item 905 Doors				
PHWS-905-01	True to alignment, plumbness in conformance to the approved/specified tolerance	/	X	
PHWS-905-02	Doors are well fitted to the door frames	/	=X	
PHWS-905-03	Door accessories installed according to plans, e.g. locksets, door closers, hinges, door stoppers	/	=X	
PHWS-905-04	Free from any form of damages	/	=X	
PHWS-905-05	Doors conforms to specification requirements e.g. panel door, flush door polyvinyl, steel doors, etc.	/	=X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) No. of Indicators (b)	CAR Total
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Wall Finishes DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 906 Plaster	Finish			
PHWS-906-01	Conformance to designed mixture of plastering materials	/	X	
PHWS-906-02	Conformance to specified method of application and thickness of plastering	/	X	
PHWS-906-03	True to alignment	/	=X	
PHWS-906-04	Free from any form of damages e.g. cracks, peeled-off plaster finish	/	=X	
		/	=X	
		/	X	
		/	=X	
		/	=X	
tem 907 Painting	1			
PHWS-907-01	Surface prepared according to specification	/	X	
PHWS-907-02	Required neutralizers, etc. applied	/	=X	
PHWS-907-03	Applied paint appropriate to the surface	/	=X	
PHWS-907-04	Specified number of coats applied	/	=X	
PHWS-907-05	Surfaces evenly painted, proper opacity	/	=X	
PHWS-907-06	No discoloration and peeling-off of paint	/	=X	
PHWS-907-07	Paints conform to specification/requirements	/	=X	
PHWS-907-08	Surface are properly applied with putty/patching compound	/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) No. of Indicators (b)	CAR Total
Entered by:	Date: / /		Rate = (a) / (b) = Rate	

PROJECT ID/NO.: _____ ____VISIT

PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Sewer & Drainage System DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 908 Pipe Cu	Ivert and Storm Drain			
PHWS-908-01	Bedding and backfill materials compacted to the required density	/	=X	
PHWS-908-02	Proper jointing of pipes	/	=X	
PHWS-908-03	Mortar for jointing of reinforced concrete culvert pipes conforms to specified mixture type	/	=X	
PHWS-908-04	Adequate collaring of reinforced concrete culvert pipes	/	X	
PHWS-908-05	Conformance to the approved/specified tolerance for elevation, slope, and alignment	/	X	
PHWS-908-06	Cracks, honeycomb, chipping-off within specified tolerances	/	X	
PHWS-908-07	Sufficient collaring & flushing	/	X	
PHWS-908-08	Conformance to the approved quality of concrete mix	/	X	
PHWS-908-09	Spacing and sizes of rebars conform to specification	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
tem 909 Manhol	es, Inlets and Catch Basin		_	
PHWS-909-01	Conformance to approved/specified tolerances for dimensions and	/	X	
PHWS-909-02	elevations Covers and gratings well fitted and can easily be opened during maintenance work	/	= X	
PHWS-909-03	Honeycomb, cracks, spalling, etc. within specified tolerance	/	=X	
PHWS-909-04	Conformance to approved quality of concrete mix	/	= X	
PHWS-909-05	Spacing and sizes of rebars conform to specification	/	=X	
		/	=X	
		/	X	
		/	X	
		/	=X	
		/	= X	
		/	= X	
			= Total Score (a)	CAR Total
	or used? If yes, name of company and owner:		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	
			=	

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE: Ports and Harbor LOCATION: _____

ITEM: Roofing System DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 910 Sheets				
PHWS-910-01	Conformance to the specified gauge, length, etc.	/	X	
PHWS-910-02	Conformance to the specified overlapping, sealing of joints, fastening	/	X	
PHWS-910-03	Installation of flashing, gutters, ridge rolls, downspouts, etc. according to plans	/	=X	
PHWS-910-04	Non-occurrence of leaks	/	X	
PHWS-910-05	Free from any form of damage	/	=X	
		/	X	
		/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	=X	
		/	=X	
		/	X	
		/	X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

Contract No.:

Visit

Project Type :

Location :

IRRIGATION

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Factor :

Date	of	Visit:	

	INDICATORS			
SUB-ITEM CODE	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 002 Clear	ing and Grubbing			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects		
IRWS-002-01	Existing adjacent facilities, properties and utilities are protected from damages	1	X =	
Minor				
IRWS-002-01	Existing adjacent facilities, properties and utilities are protected from damages	1	X =	
IRWS-002-02	The entire right of way for irrigation structures borrow and stockfile area cleared of all vegetation, trees except those to be preserved	1	X =	
IRWS-002-03	Swampy and/or second growth forested areas suitably dried prior to clearing	1	X =	
IRWS-002-04	Proper disposal of combustible materials	1	x =	
IRWS-002-05	Unsuitable materials completely removed up to specified/ designed depth	1	X =	
		1	x =	
		1	x =	
Was subcontrad	ctor used? If yes, name of company and owner		Total Score (a) No. of Indicators	Total CAR
	and		(b)	
Entered by:	Date:		(a)/(b)=	

Contract No.:

Visit

Project Type :

Location : Factor

IRRIGATION

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Date of Visit:

FACTOR	2: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
	ersion and Care of River During Construction and ratering of Foundation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects		
IRWS-003-01	Conformance to agency approved plan on the types, location, arrangement of river diversion	1	x =	
Minor				
IRWS-003-01	Conformance to agency approved plan on the types, location, arrangement of river diversion	1	x =	
IRWS-003-02	Construction operations performed in the dry	1	x =	
		1	x =	
		1	x =	
			Total Score	Total CAD
Was subcontra	ctor used? If yes, name of company and owner and		Total Score (a) No. of Indicators (b)	Total CAR
Entered by:	Date:		(a)/(b)=	

Contract No.:

Visit

Project Type :

Location : Factor :

IRRIGATION

Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 004 Cana	I/Channel Excavation			
Major				
IRWS-004-01	No damages on adjoining structures, no unduly large excavation and no destabilization of grounds occurred after blasting	/	× =	
IRWS-004-02	Slope protection from land sliding in deep cut excavation provided	/	× =	
Minor				
IRWS-004-03	Horizontal and vertical controls are complete and properly established	1	x =	
IRWS-004-04	Excavation true to lines, slopes and profiles as shown on the drawings	1	x =	
IRWS-004-05	Drilling and blasting operation approved by the agency	1	X =	
IRWS-004-06	Work area cleaned and cleared, foreign materials properly disposed	1	x =	
		1	× =	
		1	× =	
Was subcontrac	tor used? If yes, name of company and owner and		Total Score (a) No.of Indicators (b)	Total CAR
Entered by:	Date:		(a)/(b)=	

Contract No.:

Project Type : IR

Location : Factor :

IRRIGATION

Date of Visit:

Visit

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 006 Stru	cture Excavation			
Major				
IRWS-006-01	No damages to adjoining structures due to improper blasting	1	x =	
IRWS-006-02	Slope protection from land sliding in deep cut excavation provided	1	x =	
Minor				
IRWS-006-03	Excavation and compaction of foundation true to lines and grades	1	X =	
IRWS-006-04	Conformance to concrete backfilling or embankment and compaction for over excavated materials	1	X =	
IRWS-006-05	Provision of side & bottom weepholes on rock excavation	1	x =	
IRWS-006-06	Surface where concrete will be placed trimmed and cleaned thoroughly	1	X	
		1	x =	
		1	x =	
Was subcontra	ctor used? If yes, name of company and owner		Total Score (a) No. of Indicators	
	and		(b)	
Entered by:	Date:		(a)/(b)=	

Contract No.:

Visit

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

Project Type :

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IRRIGATION

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(b)

(a)/(b)=

Location : Factor

Date of Visit:

1				Т
SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
ltem 007 Drill	ing and Grouting			
Major				
IRWS-007-01	Holes drilled in proper location, direction and depth as shown on the drawings	1	X	-
IRWS-007-02	Drilling and blasting of holes done in accordance to specification and construction methodology	1	X	-
Minor				
IRWS-007-03	Surfaces affected by drilling and grouting operations cleaned and restored	1	X =	-
IRWS-007-04	Steel pipes installed according to plans and specifications	1		-
IRWS-007-05	Accurate geological logs of all exploratory holes drilled provided	1	X	-
IRWS-007-06	Records of all exploratory holes and grouting operations submitted in accordance with agreed form of drawings and reports	1		-
		1	X =	-
		1	X	
	1		Total Score (a)	Total CAR
Was subcontra	ctor used? If yes, name of company and owner		No. of Indicators	L3

and

Entered by:

Date:

Contract No.:

Date of Visit:

Visit

Project Type :

Location : Factor :

IRRIGATION

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FACTOR:	"During Construction"	= 0.40; "Upon	Completion"	= 0.50
			••••••••••••••••••••••••••••••••••••••	

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 008 Farn	n and Drainage Ditch Construction			
Major				
IRWS-008-01	Location and alignment conforms to plan and maps	1	X =	
Minor				
IRWS-008-02	Excavation conforms to the section and dimension as shown on the drawings	1	x =	
IRWS-008-03	Areas saturated before excavation	1	X	
IRWS-008-04	Conformance to required density or degree of compaction of filling materials	1	X =	
IRWS-008-05	Compacted embankment constructed true to lines, grades dimensions and prepared foundation	1	X	
		1	X	
		1	X	
	ctor used? If yes, name of company and ownerand		Total Score (a) No. of Indicators (b) (a)/(b)=	
Entered by:	Date:		(,- (~)	

Contract No.:

Date of Visit:

Visit

Project Type :

:

Location : Factor

IRRIGATION

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 009 Over	haul			
Major				
IRWS-009-01	Source and location of overhaul materials acceptable as to quality and quantity approved by the Engineer	1	X =	
Minor				
IRWS-009-02	Overhaul materials for embankment or structure backfill free from organic materials	1	x =	
IRWS-009-03	Waste materials properly placed in waste disposal areas, leveled and slope to drain	1	X =	
		1		
		1	X	
			Total Score	Total CAR
Was subcontrac	tor used? If yes, name of company and owner		(a) No. of Indicators (b)	
	and			
Entered by:	Date:		(a)/(b)=	

Contract No.:

Visit

Project Type :

Factor

IRRIGATION Location : :

Date of Visit:

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 010 Side	Borrow			
Major				
IRWS-010-01	Conformance to compaction methodology	/	x =	
IRWS-010-02	Borrow area leveled, destroyed paddies restored	1	x =	
Minor				
IRWS-010-03	Top soil material on side borrow areas properly cleared and grubbed	1	X =	
IRWS-010-04	Conformance to lines, grades and depth of excavation	/	x =	
		1	x =	
		1		
Was subcontractor used? If yes, name of company and owner and Entered by:Date:			Total Score (a) No. of Indicators (b) (a)/(b)=	Total CAR

Factor

Contract No.: Visit

Project Type :

IRRIGATION Location :

:

Date of Visit:

	-			
SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 011 Borr	ow Haul			
Major				
IRWS-011-01	Source and location of borrow haul materials acceptable as to quality and quantity approved by the Engineer	1	x =	
Minor				
IRWS-011-02	Borrow haul pits properly staked, cleared, grubbed, stripped of all unsuitable materials	1	x =	
IRWS-011-03	Right of way properly acquired and accessed	1	x =	
IRWS-011-04	Haul roads constructed and properly maintained	1	x =	
IRWS-011-05	Borrow pits properly drained	1	x	
IRWS-011-06	Stripped top soil returned to smooth and even surface	1	X	
		1	X	
		1	X	
Was subcontra	ctor used? If yes, name of company and owner and		Total Score (a) No. of Indicators (b)	Total CAR
Entered by: Date:			(a)/(b)=	

Contract No .:

Visit

Date of Visit:

Project Type : <u>I</u>

Location : Factor :

IRRIGATION

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SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 012 Struc	ture Backfill			
Major				
IRWS-012-01	Compliance to proper construction methodology (compacted layers as specified)	1	x =	
Minor				
IRWS-012-02	Proper removal of rubbish, mud, loose materials	1	x =	
IRWS-012-03	Dewatering of excavation pit conducted	1	x =	
IRWS-012-04	Conformance to required degree of compaction	1	X	
		1	X	
		1	X	
Was subcontractor used? If yes, name of company and owner and Entered by:Date:			Total Score (a) No. of Indicators (b) (a)/(b)=	

Contract No.:

Visit

Project Type :

IRRIGATION

Factor

Location : :

Date of Visit:

FACTOR	: "During Construction" = 0.40; "Upon Completion" = 0.50			
SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 013 Emb	ankment Construction and Compaction			
Major				
IRWS-013-01	Constructed in horizontal layers, thickness of layers not exceeding 15 cm. after compaction	1	x =	
IRWS-013-02	Conformance to required equipment	1	x =	
IRWS-013-03	Conformance to required degree of compaction	1		
Minor				
IRWS-013-04	Compacted embankment constructed true to lines, grades, dimensions and prepared foundations	1	x =	
IRWS-013-05	Ground surface scarified to the desired depth	/		-
IRWS-013-06	Unsuitable materials removed and replaced with suitable materials	1		-
IRWS-013-07	Top soil of the foundation area for swampy ground stripped	1	X	-
IRWS-013-08	Slope of hillside horizontally cut when embankment are made on hillside (parallel, abutting, crossing over)	1	X =	
IRWS-013-09	Slope of hillside recompacted along with new embankment materials	1	X	
IRWS-013-10	Proper surface drainage provided	1	X =	
		1	X =	
		1	X =	
			Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner		No. of Indicators (b)	s

and

Entered by:

Date:

(a)/(b)=

Contract No.:

Date of Visit:

Visit

Project Type :

Location :

IRRIGATION

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Factor :

FACTOR: "During Construction" =	0.40; "Upon Completion" = 0.50
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SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 014 Road	ls			
Major				
IRWS-014-01	In-placed materials conforms with plans and specifications	1	X =	
IRWS-014-02	Conformance to required degree of compaction	1	x =	
Minor				
IRWS-014-03	Conformance to proper construction methodology	1	x =	
IRWS-014-04	Road surfacing materials and shoulder materials did not mix during spreading	1	x	
IRWS-014-05	Conformance to the lines, grades and dimensions as indicated in the plans and specifications	1	x	
IRWS-014-06	Non-occurrence of irregular surface/depression	1	X =	
IRWS-014-07	Blending filler for top coarse materials conforms to specifications	1	X =	
		1	X =	
		/	x =	
			Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner		No. of Indicators (b)	
	and			
Entered by:	Date:		(a)/(b)=	

Contract No.:

Visit

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

Date of Visit:

Project Type : Location :

Factor

IRRIGATION

SUB-ITEM	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of			ACTION/
CODE	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		SCORE Result x factor	MONITOF
Item 015 Cond	rete Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects		
IRWS-015-01	No through cracks	/	X	-
IRWS-015-02	No honeycomb or spalling (no exposed rebars/aggregates)	1	x =	-
IRWS-015-03	No sagging or bulging	1	X =	-
IRWS-015-04	Conformance to the required quality of concrete mix	1	X	-
IRWS-015-05	Provision of camber for RCDG	1	x =	
Minor				
IRWS-015-01	No cracks	1	x =	-
IRWS-015-02	No honeycomb or spalling	1	x =	
IRWS-015-03	No sagging or bulging	1	x =	-
IRWS-015-06	No chipping off of concrete cover	1	x =	
IRWS-015-07	Proper and adequate vibration	1	x =	
IRWS-015-08	Conformance to finishing/plastering requirement	1	x =	
IRWS-015-09	Conformance to the required concrete cover for rebars	1	x =	-
IRWS-015-10	Conformance to the batching, mixing, transporting and discharge time requirements	1	x =	-
IRWS-015-11	Conformance to placing requirements that will not result to segregation of aggregates, cold joints and misalignment	1	x =	-
IRWS-015-12	Conformance to the jointing requirement	1	x =	
IRWS-015-13	Proper curing	1	x =	-
IRWS-015-14	Conformance to the required dimensions, lines, grades/elevation, locations and crown (for pier)	1	X =	-
IRWS-015-15	No water ponding on bearing plates	1	X	-
IRWS-015-16	Conformance to elevation of expansion joints	1	x =	
		1	Total Score (a)	Total CAF

Was subcontractor used? If yes, name of company and owner

and

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No. of Indicators (b)

(a)/(b)=

Entered by:

Contract No.:

Date of Visit:

Visit

Project Type :

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Location :

IRRIGATION

Factor :

FACTOR:	"During Construction"	' = 0.40; "Upor	Completion" = 0	.50
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SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 016 Cond	crete Demolition Works			
IRWS-016-01	Undertaken according to plans, operations (drilling, blasting)	1	x =	
IRWS-016-02	Proper removal/disposal of demolished structure	1	x =	
IRWS-016-03	Non-occurrence of damages to the entire/adjacent structure	1	X =	
			Total Score	Total CAR
Was subcontra	ctor used? If yes, name of company and owner		(a) No of Idicators (b)	
Entered by:	and Date:		(a)/(b)=	

Contract No.:

Visit

Project Type :

IRRIGATION Location : _____ Factor :

Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 018 Shot	crete			
Major				
IRWS-018-01	Adherence to proper construction methodology	1	x =	
IRWS-018-02	Class of shotcrete conforms to specs	1	X =	
Minor				
IRWS-018-03	Surfaces to be in contact with shotcrete prepared/cleaned	/	x =	
IRWS-018-04	Proper curing applied	1	X	
IRWS-018-05	Drainage holes penetrated into the rock according to plans and specifications	1	x =	
IRWS-018-06	Welded wire/chain-link fabric free from intensive rust, mud, grease, wax, foreign materials	1	x =	
IRWS-018-07	Welded wire/chain-link fabric installed according to plans and specifications	1	x =	
IRWS-018-08	Rebounded concrete not used again as spray materials	1	X	
			Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner and		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	

Contract No.: Visit

Project Type :

IRRIGATION

Location : Factor :

Date of Visit:

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 019 Rubl	ble Masonry			
Major				
IRWS-019-01	Conformance to proper construction methodology	1	x =	
IRWS-019-02	Conformance to specified size	1	x =	
Minor				
IRWS-019-03	Rubble stones installed are clean, sound, durable, resistant to action of water	/	x =	
IRWS-019-04	Stones thoroughly wet and properly covered with concrete binder	1	x =	
IRWS-019-05	Conformance to lines, grades and dimensions	/	x =	
IRWS-019-06	Non-occurrence of voids	1	X	
			Total Score (a)	Total CAR

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

Entered by:

Was subcontractor used? If yes, name of company and owner

and

Date:

No. of Indicators (b)

(a)/(b)=

Contract No.:

Visit

Project Type :

Location :

IRRIGATION

Factor :

Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 020 Conc	rete Canal Lining			
Major				
IRWS-020-01	Non displacement of in-placed concrete lining panels	/	X =	
IRWS-020-02	Flap valve weeps installed in accordance to the drawings	/	x =	
IRWS-020-03	Conformance to proper construction methodology	1	X	
Minor				
IRWS-020-04	Trimming according to lines, grades, elevations, dimensions, and cross-sections	/	x =	
IRWS-020-05	Impregnated building paper installed prior to concrete pouring	1	X	
IRWS-020-06	Conformance to the locations of construction joints as shown in the drawings	1	X	
IRWS-020-07	Surface of the lining finished as specified	/	X	
IRWS-020-08	Cold joints are in horizontal and vertical lines	1	x =	
IRWS-020-09	Conformance to jointing requirements	1	x =	
Was subcontrac	tor used? If yes, name of company and owner and		Total Score (a) No. of Indicators (b)	Total CAR
Entered by:	Date:		(a)/(b)=	

Contract No.:

Visit

Date of Visit:

Project Type : Location :

:

IRRIGATION

Factor FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 021 Con	crete Joints and Joint Materials			
Major				
IRWS-021-01	Conformance to plans and specifications	1	x =	
IRWS-021-02	Contraction and expansion joints constructed at locations indicated in the drawings	1	x =	
Minor				
IRWS-021-03	Non-occurrence of feather edges	1	x =	
IRWS-021-04	No chipped-off edges or corners	1	X =	
IRWS-021-05	Provision of required amount of sealant	1	X =	
IRWS-021-06	Provision of waterstops	1	x =	
		1	X	
			Total Score (a)	Total CAR
Was subcontra	ctor used? If yes, name of company and owner and		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	
Entorod by.			I	

Contract No.: Visit

Date of Visit:

Project Type :

Location :

IRRIGATION

Factor :

FACTOR:	"During Construe	ction" = 0.40; "Upo	n Completion" = 0.50
		•	

INDICATORS RESULTS SCORE the indicators in the said spot. Further, if the number of complying spots is less than if typeront (59%) of the total number of spots, the rating for that specific item of work is zero (0). ACTION/ MONITOR Major In-placed materials conform with plans and specifications / × Minor In-placed materials conform with plans and specifications / × Minor In-placed materials conform with plans and specifications / × Minor In-placed materials conform with plans and specifications / × IRWS-022-01 Provision of square nut threaded into the end of dowel bar specifications / × IRWS-022-03 Properly secured or held in place with cement grout as specified on the drawings / × IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / × IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / × IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / × IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / × IRWS-022-04 Drilled dowel holes in accordance with					
Major In-placed materials conform with plans and specifications / x IRWS-022-01 In-placed materials conform with plans and specifications / = Minor IRWS-022-02 Provision of square nut threaded into the end of dowel bar / = IRWS-022-02 Provision of square nut threaded into the end of dowel bar / = = IRWS-022-02 Properly secured or held in place with cement grout as specified on the drawings / = = IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = = IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = IRWS-022-03 Interview Interview Interview Interview		Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for	RESULTS		
IRWS-022-01 In-placed materials conform with plans and specifications / x = integration in the specification is precification in place with cement grout as specified on the drawings / x = integration is in the specification is in accordance with the approved drawings / x = integration is in accordance with the approved drawings / integration is in accordance with the approved drawings / integration is in accordance with the approved drawings integration is in accordance with the approved drawings integration is in accordance with the approved drawings integration is integrating integration is integrating integrating is integrating is integrating integrating integrating is integrating integrating integrating integrating is integrating integrating integrating is integrating integrateneee integrating integrateneee integrating i	Item 022 Dow	els			
Inversion of square nut threaded into the end of dowel bar / = IRWS-022-02 Provision of square nut threaded into the end of dowel bar / = IRWS-022-03 specified on the drawings / = Droiled dowel holes in accordance with the approved drawings / = / IRWS-022-04 Driled dowel holes in accordance with the approved drawings / = / IRWS-022-04 Image: Second dowel holes in accordance with the approved drawings / = / IRWS-022-04 Driled dowel holes in accordance with the approved drawings / = / IRWS-022-04 Image: Second dowel holes in accordance with the approved drawings / = / IRWS-022-04 Image: Second dowel holes in accordance with the approved drawings / = IRWS-022-04 Image: Second dowel holes in accordance with the approved drawings / Image: Second dowel holes in accordance with the approved dowel holes in accordance withe approved dowel holes in accordance with the approved dowel hole	Major				
IRWS-022-02 Provision of square nut threaded into the end of dowel bar / x IRWS-022-03 Properly secured or held in place with cement grout as specified on the drawings / x IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / x IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / x IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / x IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / x IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / x IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / x IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / x IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / x IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / x IRWS-022-04 Drilled dowel holes in accordance drawings / x IRWS-022-04 Intervention of the approved drawings / x Interventi	IRWS-022-01		1		
IRWS-022-02 Provision of square nut threaded into the end of dowel bar / = IRWS-022-03 Properly secured or held in place with cement grout as specified on the drawings / = IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = × IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = × IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = × IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = × IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / = × IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / × = IRWS-022-04 Irwings / × = × IRWS-022-04 Irwings / × = × IRWS-022-04 Irwings / × = × IRWS-022-04 Irwings / × × × IRWS-022-04 Irwings / × × <t< td=""><td>Minor</td><td></td><td></td><td></td><td></td></t<>	Minor				
IRWS-022-03 specified on the drawings I = IRWS-022-04 Drilled dowel holes in accordance with the approved drawings I = IRWS-022-04 I x = IRWS-022-04 I I X = IRWS-022-04 I I X = IRWS-022-04 I I I X = IRWS-022-04 I I I I I <t< td=""><td>IRWS-022-02</td><td>Provision of square nut threaded into the end of dowel bar</td><td>1</td><td>x =</td><td></td></t<>	IRWS-022-02	Provision of square nut threaded into the end of dowel bar	1	x =	
IRWS-022-04 Drilled dowel holes in accordance with the approved drawings / x = / / x = / = / = / = / = / = / = / = / = / = / = / = / = / = / = / = / = / = / = / / = / / = / / = / <	IRWS-022-03		1		
Image: system Image: s	IRWS-022-04	Drilled dowel holes in accordance with the approved	1		
/ = / <td></td> <td></td> <td>1</td> <td></td> <td></td>			1		
Was subcontractor used? If yes, name of company and owner (a) and (b)			1		
Was subcontractor used? If yes, name of company and owner (a) and (b)					
	Was subcontra			(a) No. of Indicators	

Contract No.:

Visit

Project Type : IRRIGATION

Location : Factor :

Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 023 Rein	forcing Steel Bars			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects		
IRWS-023-01	Conformance of in-placed materials to plans and specifications	1	X =	-
IRWS-023-02	Non-appearance of corrosion on steel reinforcement	1	x =	-
Minor				
IRWS-023-02	Non-appearance of rust on steel reinforcement	1	× =	-
IRWS-023-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	X	-
IRWS-023-04	No sign of oil, paint and other deleterious materials on reinforcements	1	X	-
IRWS-023-05	Conformance to jointing requirements, i.e., splicing, welding, etc.	1	X =	-
IRWS-023-06	Conformance to the required installation of ducktube (e.g. spacing, location and distance)	1	X =	-
IRWS-023-07	Conformance to the required steel plate and lock	/	X	-
IRWS-023-08	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	1	X =	
		1	X	-
		1	x =	-
			Total Score (a)	Total CAR
Was subcontra	ctor used? If yes, name of company and owner		No. of Indicators (b)	<u> </u> 3
	and		(0)	
			() (()	1

Entered by:

Date:

(a)/(b)=

Factor

Contract No.:

Visit

Project Type : **IRRIGATION**

Location : :

Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		SCORE Result x factor	ACTION/ MONITOR
Item 024 Rein	forced Concrete Pipes			
Major				
IRWS-024-01	Conformance to the required/approved tolerance for slope, alignment, elevation and dimensions	1	x =	_
IRWS-024-02	Conformance to in-placed materials	1	x =	-
Minor				
IRWS-024-03	No cracks, honeycombs, chipping of edges	1	x =	
IRWS-024-04	Compliance to joint mortar mixing proportion	1	x =	-
IRWS-024-05	Sufficient collaring and flushing	1	x =	-
IRWS-024-06	Compliance to the required thickness, compaction and materials requirement of gravel bedding	1	x =	-
IRWS-024-07	Compliance to the required thickness and compaction of backfill	1	x =	-
IRWS-024-08	Conformance to trenching requirements	1	x =	-
IRWS-024-09	Free from debris, siltation, etc.	1	x =	-
		1	x =	-
		1	x =	-
		L	Total Score (a)	Total CAR
Was subcontra	ctor used? If yes, name of company and owner		No. of Indicators (b)	;
	and		, <i>'</i>	
Entered by:	Date:		(a)/(b)=	

Entered by:

Date:

Contract No.:

Visit

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

Date of Visit:

Project Type : Location :

Factor

IRRIGATION

:

	INDICATORS			
SUB-ITEM CODE	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		SCORE Result x factor	ACTION/ MONITOR
Item 025 Boul Grouted Ripra	der Riprap, Item 026 Gabion-type Riprap, Item 027			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects		
IRWS-0201	No through cracks	1	x =	
IRWS-0202	Conformance to specifications (size, type, weight, etc. of boulders)	1	X =	-
IRWS-0203	Sufficient grout/mortar	1	x =	-
IRWS-0204	Observance to proper placing of stones/boulders	1	X =	
IRWS-0205	Conformance to the approved/required tolerance for slope, alignment and thickness (exceeding allowable tolerance)	1	x =	
IRWS-0206	Compliance to the specified compaction and preparation of bedding (gravel blanket and subgrade)	1	X =	-
IRWS-0207	Compliance to design mix of mortar	1	x =	-
IRWS-0208	Provision of weep holes	1	x =	-
Minor				
IRWS-0201	No cracks	1	x =	-
IRWS-0204	Observance to proper placing of stones/boulders	1	X =	-
IRWS-0205	Conformance to the approved/required tolerance for slope, alignment and thickness (not exceeding the allowable tolerance)	1	x =	
IRWS-0208	Provision of weep holes	1	x =	-
IRWS-0209	Sufficient stone/spall fillers	1	x =	
IRWS-0210	Conformance to the required lapping requirement	1	x =	-
IRWS-0211	Conformance to specified curing of structure	1	x =	-
		1	x =	-
	•		Total Score (a)	Total CAR
Was subcontrac	ctor used? If yes, name of company and owner and		No. of Indicators (b)	

Date:

(a)/(b)=

Entered by:

Contract No.:

Visit

Project Type : **IRRIGATION**

:

Location : Factor

Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 028 Grav	el Blanket			
IRWS-028-01	Conformance to lines, thickness as shown on the drawings	1	 =	
IRWS-028-02	Conformance of in-placed materials	1	x =	
IRWS-028-03	Provision of filter fabric, as required	1	x =	
		1	X	
			Total Score	Total CAR
			(a)	
vvas sudcontra	ctor used? If yes, name of company and owner		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

Contract No.:

Visit

Date of Visit:

Project Type :

Location : Factor :

IRRIGATION

ACTION/ MONITOR

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor
Item 029 Filter	^r Drain		
Major			
IRWS-029-01	Conformance to lines, grades, thickness as shown on the drawings	1	x =
IRWS-029-02	Compliance to specified construction methodology	1	x =
Minor			
IRWS-029-03	Compliance to specified compaction	1	x =
IRWS-029-04	Provision of weepholes as per plans/specification	1	x =
IRWS-029-05	Provision of filter and flap gate	1	x =
		1	X =

			Total Score (a)	Total CAR
			(4)	
Was subcontractor used? If yes, name of company and owner			No. of Indicators (b)	
	and		(0)	
Entered by:		Date:	(a)/(b)=	

Contract No.:

Visit Date of Visit:

Project Type :

Location : Factor

IRRIGATION

:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 030 Plair	Concrete Drain Pipe			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects		
IRWS-030-01	No through cracks	1	x =	
IRWS-030-02	Conformance to the required/approved tolerance for slope, alignment and elevation	1	x =	
Minor				
IRWS-030-01	No cracks	1	x =	
IRWS-030-03	Compliance to joint mortar mixing proportions	1	x =	
IRWS-030-04	Sufficient collaring and flushing	1	X =	
IRWS-030-05	Compliance to the required compaction of backfill and gravel bedding	1	x =	
		1	X	
	ctor used? If yes, name of company and owner and		Total Score (a) No. of Indicators (b) (a)/(b)=	Total CAR
Entered by: Date:				

Contract No.:

Visit

Project Type : IRRIGATION

Location : Factor :

Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
ltem 031 Rein	forced Concrete Piles			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	jor Defects		
IRWS-031-01	Conformance of in-placed materials to plans and specifications	1		-
IRWS-031-02	Conformance to construction methodology (installation, location and type)	1	 =	-
IRWS-031-03	Conformance to splicing requirements	1		-
IRWS-031-04	Conformance to the required length, width, thickness, and/or diameter	1	X =	-
IRWS-031-05	Provision of pile shoe	1	x =	
IRWS-031-06	No cracks, honeycomb	1	x =	-
IRWS-031-07	Piles provided with gradation marks (driven or stockpile)	1	x =	-
IRWS-031-08	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm/m), elevation, location (>150mm) & spacing	1	× =	-
Minor				
IRWS-031-08	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (\leq 20 mm/m), elevation, location (\leq 150mm) & spacing	1	x =	-
IRWS-031-09	Conformance to specified curing on casted RC piles	1	x =	-
IRWS-031-10	Conformance to casting length	1	x =	-
IRWS-031-11	Conformance to required lifting procedures	1	x =	-
		1	x =	
			Total Score (a)	Total CAR
Was subcontra	ctor used? If yes, name of company and owner		No. of Indicators (b)	 3
	and			
			1	1

Entered by:

Date: _____

(a)/(b)=

Contract No.:

Visit

Project Type :

Location : Factor :

IRRIGATION

Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 032 Stee	I Sheet Piles			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects		
IRWS-032-01	Conformance of in-placed materials to plans & specs	1	x =	-
IRWS-032-02	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm/m), elevation, location (>150 mm)	1	x =	-
IRWS-032-03	Piles provided with gradation marks (driven or stockpile)	1	x =	-
IRWS-032-04	Conformance to the approved tolerances for dimension	1	x =	-
IRWS-032-05	No corrosion on steel sheet piles	1	x =	
IRWS-032-06	Compliance to the required number of piles	1	x =	
Minor				
IRWS-032-02	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (\leq 20 mm/m), elevation, location (\leq 150 mm)	1	=	-
IRWS-032-05	No presence of rust on steel sheet piles	1	x =	-
IRWS-032-07	Compliance to the required splicing	1	x =	-
		1	x =	-
			Total Score (a)	Total CAR
Was subcontra	ctor used? If yes, name of company and owner		No. of Indicators (b)	
	and			<u> </u>

Entered by:

Date:

(a)/(b)=

Contract No.:

Visit

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

Date of Visit:

Project Type : Location :

Factor

IRRIGATION

: ____

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 033 Stee	I Gates and Lifting Mechanism (steel gates, stoplog,			
lifting mecha	nism, embedded parts)			
Major				
IRWS-033-01	Mounting and bearing surfaces accurately machined	1	x =	
IRWS-033-02	Installed equipment conformed accurately to the designed dimensions, free from defects in workmanship and materials according to the specified type and model	1	x =	
IRWS-033-03	Gates and lifting mechanism assembly installed in accordance to plans and specifications	1	x =	
Minor				
IRWS-033-04	Conformance to specified jointing/welding methods	1	x =	
IRWS-033-05	Drain holes provided on all locations where entrapment of water can occur	1	x =	
IRWS-033-06	Conformance to the specified painting for submerged steel, steel exposed to atmosphere and embedded steel	1	x =	
IRWS-033-07	Non-occurrence of leakage	1	x =	
IRWS-033-08	Operation and maintenance manual provided	1	x =	
IRWS-033-09	Surfaces clean and smooth, welded joints properly grinded	1	x =	
		1	x =	
Was subcontra	ctor used? If yes, name of company and owner	L	Total Score (a) No. of Indicators (b)	Total CAR
-			(a)/(b)=	

Entered by:

Date:

Contract No.:

Visit

Project Type : Location :

IRRIGATION

Factor

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Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 034 Steel	Pipe Manhole, Blow-off Valve and Manhole Cover			
Major				
IRWS-034-01	Installation drawings, operating and maintenance instructions, illustrations and repair procedures submitted	1	x =	
IRWS-034-02	Pipe fittings, manholes and cover, valve and accessories installed as shown on the drawings	1	x =	
Minor				
IRWS-034-03	Anchor bolts set accurately to the grade and alignment as shown on the drawings	1	X =	
IRWS-034-04	Extraneous foreign matter removed from the pipes	1	x =	
IRWS-034-05	Conformance to the specified kind and method of painting	1	x =	
		1	x =	
		1	x =	
Was subcontrac	tor used? If yes, name of company and owner and		Total Score (a) No. of Indicators (b)	Total CAR
Entered by:			(a)/(b)=	

Contract No.:

Date of Visit:

Project Type : IR

Location : Factor :

IRRIGATION

0.	vion.				
		_		-	-

Visit

1		1		
SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
ltem 035 Misc	ellaneous Metal Works and Materials			
Major				
IRWS-035-01	Provision of block outs for installation of metal works	/	X	
IRWS-035-02	Metal works and materials installed in accordance to the details shown in the drawings (alignment, position)	1	x =	
Minor				
IRWS-035-03	Block outs were grouted after installation of metal works	1	x =	
		1	X	
		1	x =	
			Total Score	Total CAR
			(a)	
	ctor used? If yes, name of company and owner and		(b)	
Entered by:	Date:		(a)/(b)=	

Contract No.:

Visit

Project Type :

Factor

Location : _ :

IRRIGATION

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Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 036 Pain	ting			
IRWS-036-01	Surface prepared according to specifications	1	x =	
IRWS-036-02	Required neutralizers, etc. applied	1	x =	
IRWS-036-03	Applied paint appropriate to the surface	1	x =	
IRWS-036-04	Specified number of coats applied	1	x =	
IRWS-036-05	Surfaces evenly painted, proper opacity	1	X	
IRWS-036-06	No discoloration and peeling off of paint	1	x =	
IRWS-036-07	Paints conform to specification/requirements	1	x =	
IRWS-036-08	Surface are properly applied with putty/patching compound	1	x =	
		1	x =	
		1	x =	
			Total Score (a)	Total CAR
Was subcontra	ctor used? If yes, name of company and owner and		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	

Contract No.:

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Visit

Project Type :

IRRIGATION

Location : Factor :

Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 037 Aspl	nalt Concrete Surfacing - Plant Mix			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	or Defects		
IRWS-037-01	Conformance of in-placed materials to plans & specs	1	x =	-
IRWS-037-02	Monitoring/checking of temperature mix prior to placing/spreading/compaction	1	x =	
IRWS-037-03	Conformance to the temperature requirement	1	x =	
IRWS-037-04	No alligator and longitudinal cracks	1	x =	
IRWS-037-05	Conformance to the approved/specified tolerance for thickness, width, length, slope and cross section (>10% deficient)	1	x =	
IRWS-037-06	No bleeding on asphalt pavement (> 1 sq.m.)	1	x =	-
IRWS-037-07	No upheaval (severe and needs R/R)	1	x =	-
IRWS-037-08	No ravelling (severe and needs R/R)	1	x =	-
Minor				
IRWS-037-04	No temperature cracks	1	x =	
IRWS-037-05	Conformance to the approved/specified tolerance for thickness, width, length, slope and cross section (≤10% deficient)	1	x =	
IRWS-037-06	No bleeding on asphalt pavement (≤ 1 sq.m.)	1	x =	-
IRWS-037-07	No upheaval	1	X =	-
IRWS-037-08	No ravelling	1	x =	
IRWS-037-09	Conformance to the required density	1	X =	-
		1	X	
			Total Score (a)	Total CAR
Was subcontra	ctor used? If yes, name of company and owner		No. of Indicators (b)	
	and			

Entered by:

Date:

(a)/(b)=

Contract No.:

Date of Visit:

Visit

Project Type :

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IRRIGATION

Location : Factor :

FACTOR: "During Construction"	' = 0.40; "Upon Completion" = 0.50
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SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 038 Press	sure Relief Valve			
Major				
IRWS-038-01	Installation of valves including accessories true to lines, grades and places as indicated on the drawings	1		
Minor				
IRWS-038-02	Ball mechanism inserted into a designed size of pipe and installed at intervals as shown on the drawings	1	× =	
IRWS-038-03	Special locking device provided	1	× =	
		1	X =	
		1	X =	
			Total Score	Total CAR
Was subcontrac	tor used? If yes, name of company and owner and Date:		No. of Indicators (b) (a)/(b)=	

Factor

Contract No.:

Visit

Project Type :

Location : : **IRRIGATION**

Date of Visit:

FACTOR: "During Construction" = 0.40; "Upon Completion" = 0.50

SUB-ITEM CODE	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	RESULTS	SCORE Result x factor	ACTION/ MONITOR
Item 039 Bio-	Engineering for Erosion Control and Slope Stabilization			
IRWS-039-01	Conformance to the required slope, line and grade as per plans and specifications	1	x =	-
IRWS-039-02	Conformance to proper methodology for surface preparation	1	x =	-
IRWS-039-03	Plant, shrub, grass and tree species used to reinforce soil and stabilize slopes conforms to the approved variety/kind as per approved specifications	1	x =	
IRWS-039-04	Method of propagation/planting of plant, shurb, grass and tree species conforms to specifications	1	x =	
IRWS-039-05	Inert materials (biotextiles, biomats) used as temporary solutions for superficial lining and erosion protection during vegetation growth conforms to specifications	1	X =	
IRWS-039-06	Inert materials {geomats(with fibers, continous fibers, grids), geocells, gabions, reno mattresses, hexagonal IRWSe mesh} used for erosion protection caused by impact of raindrops and rills or the flood action of rivers and channels conforms to specifications	1		-
IRWS-039-07	Inert materials {gabions, geogrids (extruded, woven, bonded), hexagonal IRWSe mesh, geotextiles (woven, nonwoven)} used for soil reinforcement/soil retaining conforms to specifications	1	x =	
IRWS-039-08	Inert materials {gabions, geomats (continous fibers, grids), geotextiles (woven, nonwoven)} used for drainage conforms to specifications	1	x =	
IRWS-039-09	Inert materials (double twist IRWSemesh) used for rockfall protection conforms to specifications	1	x =	-
		1	x =	-
		1	x =	-
		<u> </u>	Total Score (a)	Total CAR
Was subcontra	ctor used? If yes, name of company and owner and		No. of Indicators (b)	
Entered by:	Date:		(a)/(b)=	

Entered by:

Date:

PROJECT ID/NO.:	PROJECT TYPE: Flood Control	ITEM: Earthworks
VISIT	LOCATION:	DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1700 Clearii	ng and Grubbing			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Ma	ior Defects	3	
	Proper removal of undisputed stumps roots and non-perishable solid		x	
-CWS-1700-01	objects/structures, vegetation, debris, tree and other obstructions	/	=	
Minor				
-CWS-1700-01	Proper removal of undisputed stumps roots and non-perishable solid objects/structures, vegetation, debris, tree and other obstructions	/	X	
	Conformance to proper disposal	/	X	
		/	X	
		/	X	
		/	X	
Item 1701 Chann	el Excavation, 1702 Structure Excavation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	cts		
FCWS-17001	Conformance wth approved/specified tolerance for lines, grades, cross-section, elevation and dimension (if no longer correctible)	/	=X	
		/	=X	
Minor				
FCWS-17001	Conformance with approved/specified tolerance for lines, grades, cross-section, elevation and dimension (correctible)	/	=X	
FCWS-17002	Adherence to proper construction methodology	/	X	
-CWS-17003	Conformance to proper disposal	/	=X	
		/	X	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Intered by:	Date: / /		Rate = (a) / (b) =	

Rate

 PROJECT ID/NO.:
 PROJECT TYPE: Flood Control
 ITEM: Earthworks

 _____VISIT
 LOCATION:
 DATE OF VISIT:

DATE OF VISIT: / /

Rate

	INDICATORS		-	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 1703 Dredgi	ng			
FCWS-1703-01	Unsuitable soil layers removed from river beds, bottom of creeks, and other bodies of water	/	=X	
-CWS-1703-02	Removed unsuitable soil layers properly disposed	/	=X	
FCWS-1703-03	Adherence to proper dredging methodology	/	=X	
FCWS-1703-04	Conformance with specified silt screens or isolation materials for prevention against the diffusing of contaminated toxic materials during dredging.	/	X	
FCWS-1703-05	Conformance with approved/specified lines, grades/depth, volume and containment/sealing of disposed dredged materials	/	=X	
		/	=X	
ltem 1704 Embar	kment			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	cts		
FCWS-1704-01	Adherence to proper construction methodology (if no longer correctible)	/	=X	
-CWS-1704-02	Conformance with approved/specified tolerances for lines, grades, cross- section, elevation, & dimensions (if no longer correctible, e.g., with in- placed structure)	/	X	
FCWS-1704-03	Adherence to compaction procedure and required equipment (if no longer correctible)	/	=X	
Minor				
FCWS-1704-01	Adherence to proper construction methodology	/	=X	
-CWS-1704-02	Conformance with approved/specified tolerances for lines, grades, cross- section, elevation, & dimensions (correctible)	/	=X	
CWS-1704-03	Adherence to compaction procedure and required equipment (correctible)	/	X	
		/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Flood Control LOCATION: _____

ITEM: Earthworks DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

	INDICATORS		Soore	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	e Sub-base Course, 1708 Aggregate Base Course, 1709 Crushed			
Aggregate Base Co	urse * Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	oto		
			X	
-CWS 17001	Conformance of in-placed materials to plans and specifications	/	=	
-CWS 17002	Conformance with approved/specified tolerances on lines, grades, cross- section, thickness, elevation, dimensions and plans (if no longer correctible, e.g., not extended to shoulder and other succeeding items are already in- placed)	/	X	
		/	X	
Minor				
-CWS 17001	Conformance of in-placed materials to plans and specifications	/	X	
-CWS 17002	Conformance w/ approved/specified tolerances on lines, grades, cross- section, thickness, elevation, dimensions & plans (correctible)	/	X	
FCWS 17003	Conformance to required layering	/	X	
FCWS 17004	Conformance to the required compaction	/	x	
FCWS 17005	Sub-base/Base extended to shoulders	/	X	
	Non-occurrence of sub-base/base settlement/upheaval	/	X	
FCWS 17007	Provision of required stakes	/	=X	
		/	=^	
		/	=X	
		/	= X	
		/	= X	
		, /	=X	
Nas subcontracto	r used? If yes, name of company and owner:		= Total Score (a) =	CAR Total
	&		= No. of Indicators (b) =	
Entered by:	Date: / /		 Rate = (a) / (b) =	
			– Rate	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Flood Control LOCATION: _____

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 1710 Riprap/G Masonry	routed Riprap, 1711 Stone Masonry, 1713 Rubble Concrete/Sand			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	cts		
FCWS-17101	No through cracks	/	X	
	Conformance to specifications (size, type, weight, etc. of boulders)	/	X	
	Conformance to the approved/required tolerances for slope and thickness	/	X	
	Observance to proper placing of stones/boulders	/	X	
	Sufficient grout/mortar	/	X	
		/	= X	
Minor			-	
FCWS-17101	No cracks	/	X	
FCWS-17106	Adequate and proper spacing of weepholes	/	X	
FCWS-17107	Conformance with the approved tolerances for lines, grades, cross- sections, and elevations	/	X	
	Compliance to design mix of mortar	/	X	
		/	X	
		/	=X	
Nas subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____ _____VISIT PROJECT TYPE: Flood Control

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1712 Concrete	Slope Protection			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	cts		
FCWS-1712-01	No honeycomb (exposed rebars/aggregates)	/	=X	
FCWS-1712-02	No through cracks	/	=X	
		/	=X	
Minor		,	X	
FCWS-1712-01	No honeycomb	/	=	
FCWS-1712-02	No cracks	/	=X	
FCWS-1712-03	Conformance to the required curing	/	=X	
FCWS-1712-04	Proper vibration	/	=X	
FCWS-1712-05	Proper finishes/plastering	/	X	
FCWS-1712-06	No corrosion on steel bars	/	X	
FCWS-1712-07	Forms applied with specified form oil	/	X	
FCWS-1712-08	Conformance to the required splicing and installation of rebars	/	X	
FCWS-1712-09	Adequate and proper spacing of weepholes	/	X	
		/	X	
		/	=X	
Was subcontractor used? If yes, name of company and owner:			Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	& Date: / /		Rate = (a) / (b)	
			=	
			Rate	

PROJECT ID/NO.: _____ _____VISIT PROJECT TYPE: Flood Control LOCATION: _____

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

0	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1714 Gabior	ns and Mattresses			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	cts		-
FCWS-1714-01	Conformance to the required/approved tolerance for lines, grades, dimensions and arrangements as shown on the plans and designated location (>10%)	/	=X	
FCWS-1714-02	Conformance to specifications (size, type, weight, etc. of boulders)	/	=X	
Minor				
FCWS-1714-01	Conformance to the required/approved tolerance for lines, grades, dimensions and arrangements as shown on the plans and designated location (\leq 10%)	/	=x	
FCWS-1714-03	Conformance to the required wire mesh cage fabrication requirement	/	=X	
FCWS-1714-04	No misalignment, bulging	/	=X	
FCWS-1714-05	Conformance to the required lapping requirement	/	=X	
		/	=X	
ltem 1715 Filter F	Fabric			
FCWS-1715-01	Conformance to the elevation and extent of application as shown on the plan	/	=X	
FCWS-1715-02	Conformance to the required installation procedure, e.g. lapping requirements, etc.	/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /		= Rate = (a) / (b)	
				1
			= Rate	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Flood Control LOCATION: _____

	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 1716 Piling 1716-1 Timber Pi	es			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	cts		
	Conformance of in-placed materials to plans and specifications	/	X	
FCWS-1716-1-02	Conformance to construction methodology (installation, location and type)	/	=X	
	Conformance to splicing requirements	/	=X	
FCWS-1716-1-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	X	
FCWS-1716-1-05	Piles provided with gradation marks (driven)	/	X	
Minor				
FCWS-1716-1-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (<20 mm / m), elevation, location (<150 mm) & spacing	/	=X	
FCWS-1716-1-05	Piles provided with gradation marks (stockpile)	/	X	
FCWS-1716-1-06	Conformance to approved/specified tolerances for length, width, thickness and/or diameter	/	X	
FCWS-1716-1-07	No loose knots, decay, splits, worm holes, and warps	/	=X	
FCWS-1716-1-08	Non-splintering/brooming of timber pile end beyond specified allowance	/	=X	
FCWS-1716-1-09	No cracks	/	=X	
FCWS-1716-1-10	Provision of pile cap	/	=X	
		/	X	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE: Flood Control LOCATION: _____

_	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 1716-2 Steel	Piles			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defe	cts		
	Conformance of in-placed materials to plans and specifications	/	=X	
	Conformance to construction methodology (installation, location and type)	/	=X	
-CWS-1716-2-03	Conformance to splicing requirements	/	=X	
FCWS-1716-2-04	Conformance to the required length, width, thickness, and/or diameter	/	=X	
	Piles provided with gradation marks (driven)	/	=X	
	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	=X	
Minor			Х	
-CWS-1716-2-05	Piles provided with gradation marks (stockpile)	/	=	
FCWS-1716-2-06	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (<20 mm / m), elevation, location (<150 mm) & spacing	/	=x	
FCWS-1716-2-07	No corrosions on steel piles	/	=X	
	No deformation on steel piles	/	=X	
		/	=	
		/	= Total Score (a)	CAR Total
Was subcontractor used? If yes, name of company and owner:			= No. of Indicators (b)	
Entered by:	Date: / /		= Rate = (a) / (b) =	
			= Rate	

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE: Flood Control LOCATION: _____

ITEM: Bank & Slope Protection DATE OF VISIT: / /

Rate

ractor : "During (Construction" = 0.40; "Upon Completion" = 0.50	-		
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
	rete Piles (see Common Items of Work for checklist			
for formworks, co Major*	oncrete works & RSB) * Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	ets		
•	Conformance of in-placed materials to plans and specifications	/	X	
FCWS-1716-3-02	Conformance to construction methodology (installation, location and type)	/	=X	
	Conformance to splicing requirements	/	=X	
	Conformance to the required length, width, thickness, and/or diameter	/	X	
	Provision of pile shoe	/	X	
	No through cracks	/	X	
-CWS-1716-3-07	No honeycomb (exposed rebars/aggregates)			
FCWS-1716-3-08	Piles provided with gradation marks (driven)	/	=X	
FCWS-1716-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	=X	
Minor				
	No cracks	/	=X	
FCWS-1716-3-07	No honeycomb	/	=X	
	Piles provided with gradation marks (stockpile)	/	=X	
FCWS-1716-3-09	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (\leq 20 mm / m), elevation, location (\leq 150 mm), spacing & champering	/	X	
FCWS-1716-3-10	Conformance to specified curing on casted RC piles	/	=X	
FCWS-1716-3-11	Conformance to casting length	/	=X	
	Conformance to required lifting procedure	/	=X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Data	

PROJECT ID/NO.: _____ _____VISIT PROJECT TYPE: Flood Control

	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 1717 Sheet I 1717-1 Concrete				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	cts		
•	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	=X	
	Piles provided with gradation marks (driven)	/	=X	
	Conformance to the required quality of concrete mix	/	=X	
		/	=X	
	Conformance to the approved/required tolerances for length, width, thickness, and/or diameter	/	=X	
Minor				
FCWS-1717-1-01	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (\leq 20 mm / m), elevation, location (\leq 150 mm) & spacing	/	=X	
FCWS-1717-1-02	Piles provided with gradation marks (stockpile)	/	=X	
FCWS-1717-1-06	Conformance to the required casting length	/	=X	
	Provision of pile shoe	/	=X	
	Compliance to required curing of casted sheet piles	/	=X	
FCWS-1717-1-09	Compliance to required splicing	/	=X	
FCWS-1717-1-10	No honeycomb, stone pockets and bulging	/	=X	
FCWS-1717-1-11	Conformance to the required centerline and cut-off elevation	/	=X	
FCWS-1717-1-12	Attainment of required number of piles	/	=X	
		/	=X	
		/	=X X	
		/	=^	
		/	=X	
		/	=X	
		/	=^	
		/	=	
			Total Score (a)	CAR Total
	r used? If yes, name of company and owner:		= No. of Indicators (b)	
Entered by:	Date: / /		= Rate = (a) / (b)	
			= Rate	

PROJECT ID/NO.: _____ _____VISIT PROJECT TYPE: Flood Control LOCATION: _____

-actor : "During (Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 1717-2 Steel	Sheet Pile			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defec	cts		<u> </u>
CWS-1717-2-01	Conformance of in-placed materials to plans & specifications	/	=X	
-CWS-1717-2-02	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	=X	
-CWS-1717-2-03	Piles provided with gradation marks (driven)			
	Conformance to the approved/required tolerances for length, width, thickness, and/or diameter	/	X	
Minor				
CWS-1717-2-02	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (\leq 20 mm / m), elevation, location (\leq 150 mm) & spacing	/	=X	
CWS-1717-2-03	Piles provided with gradation marks (stockpile)	/	=X	
-CWS-1717-2-05	Compliance to the required splicing	/	=X	
-CWS-1717-2-06	No corrosion on steel sheet piles	/	X	
FCWS-1717-2-07	Non-use of deformed steel bars	/	=X	
CWS-1717-2-08	Attainment of required number of piles	/	X	
		/	X	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	& Date: / /		=	
Intered by			Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE: Flood Control LOCATION: _____

	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 1717-3 Timb	er Sheet Pile			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defe	cts		
	Conformance of in-placed materials to plans and specifications	/	X	
FCWS-1717-3-02	Conformance to construction methodology (installation, location and type)	/	=X	
CWS-1717-3-03	Conformance to splicing requirements	/	=X	
-CWS-1717-3-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (>20 mm / m), elevation, location (>150 mm) & spacing	/	=x	
	Piles provided with gradation marks (driven)	/	X	
	Conformance to approved/specified tolerances for length, width, thickness and/or diameter	/	X	
Minor				
FCWS-1717-3-04	Conformance to proper installation, e.g. conformance to required slope, embedment, alignment, plumbness (<20 mm / m), elevation, location (<150 mm) & spacing	/	=X	
	Piles provided with gradation marks (stockpile)	/	=X	
-CWS-1717-3-07	No worm holes, decays, warps, ring, segregation, splits, and loose knots	/	=X	
-CWS-1717-3-08	Non-splintering/brooming of timber pile end beyond specified allowance	/	=X	
	No cracks	/	=X	
	Provision of pile cap	/	=X	
	Attainment of required number of piles	/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /		= Rate = (a) / (b)	
			= Rate	

PROJECT ID/NO.: _____ PROJECT TYPE: Flood Control LOCATION: _____

ITEM: Drainage Works DATE OF VISIT: / /

Rate

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 1718 Pipe C	ulvert and Storm Drain			
Major				
CWS-1718-01	Conformance to the required/approved tolerance for slope, alignment, elevation and dimensions	/	X	
<i>Ninor</i>				
CWS-1718-02	No cracks, honeycomb, chipping of edges	/	=X	
CWS-1718-03	Compliance to joint mortar mixing proportions	/	=X	
CWS-1718-04	Sufficient collaring and flushing	/	=X	
CWS-1718-05	Compliance to the required thickness, compaction & materials requirement of gravel bedding	/	=X	
CWS-1718-06	Compliance to the required thickness and compaction of backfill	/	=X	
CWS-1718-07	Conformance to trenching requirements	/	=X	
CWS-1718-08	Free from debris, siltation, etc.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	x	
		/	X	
		/	X	
		/	X	
Vas subcontracto	r used? If yes, name of company and owner:		= Total Score (a) =	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Flood Control LOCATION: _____ ITEM: Drainage Works DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monito
ltem 1720 Manho	les, Inlets and Catch Basins			
Major				
-CWS-1720-01	Conformance to connection requirements between pipes and inlet wall	/	=X	
	Conformance to approved/specified tolerance for dimensions and elevations	/	X	
Minor				
-CWS-1720-03	No damage on manhole, inlets and catch basins	/	X	
-CWS-1720-04	No cracks	/	=X	
CWS-1720-05	No honeycomb	/	=X	
-CWS-1720-06	Free from debris, siltation, etc.	/	=X	
	Covers and gratings are well fitted and can easily be opened during maintenance work	/	X	
		/	X	
		/	X	
		/	=X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b)	
			= Rate	

PROJECT ID/NO.: _____ _____VISIT PROJECT TYPE: Flood Control LOCATION: _____ ITEM: Common Items of Work DATE OF VISIT: / /

-actor : "During	Construction" = 0.40; "Upon Completion" = 0.50	1		
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 1723 Formw	vorks			
FCWS-1723-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	X	
FCWS-1723-02	Forms coated with mould oil as required	/	=X	
	Sufficient bracing/support provided	/	X	
FCWS-1723-04	No loose knots, splits, cracks, etc.	/	X	
FCWS-1723-05	Provision of required concrete or steel spacers	/	X	
	Conformance to dimensions, location, plumbness and alignment	/	X	
		/	x	
		/	X	
		/	X	
		/	X	
		/	X	
	rcing Steel Bars (including tendons for Pre/Post-Stressed		=	
concrete) Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defect	cts		
FCWS-1724-01	Conformance of in-placed materials to plans & specifications	/	X	
FCWS-1724-02	Non-appearance of corrosion on steel reinforcement	/	X	
Minor				
-CWS-1724-02	Non-appearance of rust on steel reinforcement	/	=X	
	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	=X	
	No sign of oil, paint and other deleterious materials on reinforcements	/	=X	
	Conformance to jointing requirements, i.e. splicing, welding, etc.	/	=X	
	Conformance to the required installation of ducktube (e.g. spacing, location and distance)	/	X	
	Conformance to the required steel plate and lock	/	X	
	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	/	X	
		/	X	
		/	X	
		/	X	
Nas subcontracto	or used? If yes, name of company and owner:		= Total Score (a) =	CAR Total
			No. of Indicators (b)	
Entered by:	Date: / /		= Rate = (a) / (b)	
			= Rate	
			=	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Flood Control

ITEM: Common Items of Work DATE OF VISIT: / /

actor . During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1725 Concre	ete Works			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition of Major Defe	cts		
FCWS-1725-01	No through of cracks	/	=X	
FCWS-1725-02	No honeycomb or spalling (no exposed rebars/aggregates)	/	=X	
FCWS-1725-03	No sagging or bulging	/	=X	
FCWS-1725-04	Conformance to the required quality of concrete mix	/	X	
Minor				
FCWS-1725-01	No cracks	/	=X	
FCWS-1725-02	No honeycomb or spalling	/	=X	
FCWS-1725-03	No sagging or bulging	/	=X	
FCWS-1725-05	No chipping off of concrete cover	/	=X	
FCWS-1725-06	Proper and adequate vibration	/	=X	
FCWS-1725-07	Conformance to finishing/plastering requirement	/	=X	
FCWS-1725-08	Conformance to the required concrete cover for rebars	/	X	
FCWS-1725-09	Conformance to the batching, mixing, transporting and discharge time requirements	/	=X	
FCWS-1725-10	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	=X	
FCWS-1725-11	Conformance to the jointing requirement	/	=X	
FCWS-1725-12	Proper curing	/	=X	
FCWS-1725-13	Conformance to required dimensions, lines, grades/elevation locations and crown (for pier)	/	=x	
FCWS-1725-14	No water ponding on bearing plates	/	=X	
	Conformance to elevation of expansion joints	/	=X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b)	
			= Rate	

 PROJECT ID/NO.:
 PROJECT TYPE: Flood Control

 ____VISIT
 LOCATION:

ITEM: Miscellaneous Works DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 1726 Electri	ical Works			
FCWS-1726-01	Pipes installed according to plans and laid out according to approved construction drawings	/	=X	
FCWS-1726-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed	/	=X	
FCWS-1726-03	Pipes properly bended	/	=X	
FCWS-1726-04	Allowable number of wires in a pipe properly observed	/	=X	
FCWS-1726-05	Splicing and connection provided with adequate rubber and pvc tapes	/	X	
FCWS-1726-06	Adequate length of wire provided for termination and splicing	/	=X	
FCWS-1726-07	Wire color coding complied and observed	/	=X	
FCWS-1726-08	Wire insulation not damaged during pulling	/	X	
FCWS-1726-09	Adequate number, correct size and gauge of pull boxes installed and properly covered	/	=X	
FCWS-1726-10	Boxes and enclosures provided according to intended purpose	/	=X	
FCWS-1726-11	Fittings and accessories provided and properly installed	/	=X	
FCWS-1726-12	Block-outs and sleeves provided and properly secured	/	=X	
FCWS-1726-13	Cable ties provided	/	=X	
FCWS-1726-14	Blank covers provided for outlets and switches that are not utilized	/	=X	
FCWS-1726-15	Use of tools and equipment properly observed	/	=X	
FCWS-1726-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages	/	=X	
FCWS-1726-17	Meager, clamp, phase sequence tests and load test conducted	/	=X	
FCWS-1726-18	Shop drawings, as-built plan maintained	/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	

 PROJECT ID/NO.:
 PROJECT TYPE: Flood Control

 ____VISIT
 LOCATION:

ITEM: Miscellaneous Works DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 1727 Genera	ntor Set			
CWS-1727-01	Installation of auxilliary, piping and control panel according to plans and specifications	/	X	
CWS-1727-02	Installed materials free from any form of damages	/	X	
CWS-1727-03	Pipes are sufficiently braced	/	=X	
CWS-1727-04	Passed the required test	/	=X	
		/	X	
		/	X	
		/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	- x	
		/	= X	
Vas subcontracto	r used? If yes, name of company and owner:		= Total Score (a) =	CAR Total
			No. of Indicators (b)	
Intered by:	Date: / /		= Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____ PROJECT TYPE: Flood Control LOCATION: _____

ITEM: Miscellaneous Works DATE OF VISIT: / /

	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of		Score	A - 1'
Sub-item Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Action Monito
tem 1728 Soddir	g			
FCWS-1728-01	Conformance to appropriate type, thickness and density of soil	/	=X	
CWS-1728-02	Conformance to approved slope	/	=X	
CWS-1728-03	Conformance to the required type of grass/planting materials	/	=X	
CWS-1728-04	Healthy, dense, well rooted	/	=X	
CWS-1728-05	Free from weeds or undesirable grasses	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Intered by:	Date: / /		Rate = (a) / (b)	
			= Rate	

PROJECT ID/NO.: _____ _____VISIT PROJECT TYPE: Flood Control LOCATION: _____

ITEM: Bio-Engineering DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 1729 Bio-En	gineering for Erosion Control and Slope Stabilization			
FCWS-1729-01	Conformance to the required slope, line and grade as per plans and specifications	/	X	
FCWS-1729-02	Conformance to proper methodology for surface preparation	/	x	
FCWS-1729-03	Plant, shrub, grass and tree species used to reinforce soil and stabilize slopes conforms to the approved variety/kind as per approved specifications	/	X	
FCWS-1729-04	Method of propagation/planting of plant, shrub, grass and tree species conforms to specifications	/	X	
FCWS-1729-05	Inert materials (biotextiles, biomats) used as temporary solutions for superficial lining and erosion protection during the vegetation growth conforms to specifications	/	=X	
FCWS-1729-06	Inert materials (geomats (with fibers, continuous fibers, grids), geocells, gabions, reno mattresses, hexagonal wire mesh) used for erosion protection caused by impact of raindrops and rills or the flood action of rivers and channels conforms to specifications	/	=x	
FCWS-1729-07	Inert materials {gabions, georids (extruded, woven, bonded), hexagonal wire mesh, geotextiles (woven, nonwoven)} used for soil reinforcement/soil retaining conforms to specifications	/	=X	
FCWS-1729-08	Inert materials {gabions, geomats (continuous fibers, grids), geotextiles (woven, nonwoven)} used for drainage conforms to specifications	/	=X	
FCWS-1729-09	Inert materials (double twist wire mesh) used for rockfall protection conforms to specifications	/	=X	
FCWS-1729-10	Inert materials installed according to plans and specifications (e.g., size, extent, procedure, lapping, alignment, etc.)	/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) No. of Indicators (b)	CAR Total
	Date: / /		Rate = (a) / (b)	
			= Rate	

PROJECT ID/NO.:	PROJECT TYPE: Transmission Line	ITEM:
VISIT	LOCATION:	DATE

ITEM: <u>Clearing</u> DATE OF VISIT: ///

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific	Results	Score x factor	Action / Monitor
	item of work is zero (0).			
Item 100 ROW	Clearing			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
TRLWS-100-01	Survey area is clearly staked to the required ROW width	/	X	
Minor				
TRLWS-100-02	Proper removal of undisputed stumps roots and non- perishable solid objects/structures, vegetation, debris, trees and other obstruction.	/	X	
TRLWS-100-03	Conformance to proper disposal	/	X	-
		/	X	
		/	X	1
		/	X	
		/	X	
		/	X	
		/	X	
Item 101 Slope	Cutting			
Minor				
TRLWS-101-01	Conformance to the approved / specified clearance	/	X	
TRLWS-101-02	Proper disposal of cut materials	/	X	
		/	=X	
		/	=X	
		/	=X	
		/	X	
		/	X	
		/	=X	
as subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
		_	No. of Indicators (b) =	
				1
Intered by:	Date: / /	_	Rate = (a) / (b)	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Transmission Line LOCATION: _____

ITEM: Foundation DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 200 Excav	ation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
TRLWS-200-01	Conformance to the approved foundation plans for lines, grades, dimensions, elevations.	/	=X	
TRLWS-200-02	Adherence to proper construction methodology.	/	X	
Minor				
TRLWS-200-02	Adherence to proper construction methodology.	/	X	
TRLWS-200-03	Conformance to the excavation support system. (i.e. shoring, bracing, sheet piling)	/	X	
TRLWS-200-04	Proper disposal of excavated materials.	/	=X	
		/	X	
Item 201 Stubs	Setting / 202 Anchor Bolts Setting			
Major*				
TRLWS-2001	Conformance to the setting dimensions in accordance to plans and specifications.	/	X	
TRLWS-2002	Conformance to the required template setting.	/	X	
TRLWS-2003	Stub/Anchor bolt and template fixed with support.	/	=X	
		/	X	
		/	X	
		/	=X	
		/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
		-	No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

Entered	by:	

CPES CHECKLIST	FOR WORKMANSHI	Ρ

VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Transmission Line</u> LOCATION: _____

ITEM: Foundation DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			-
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 203 Backf	illing			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
TRLWS-203-01	Conformance of in-placed materials to plans and specifications.	/	=X	
TRLWS-203-02	Conformance to the required density or degree of compaction	/	=X	
Minor				
TRLWS-203-03	Conformance to the required elevation of fill or backfill	/	X	
TRLWS-203-04	Conformance to ground level restoration	/	X	
TRLWS-203-05	Provision of rain water outlet.	/	X	
		/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
Item 204 Groun	ding System			
Minor				
TRLWS-204-01	Conformance to the required grounding resistance.	/	X	
TRLWS-204-02	Proper installation of grounding / counterpoise.	/	=X	
		/	=X	
		/	X	
		/	=X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /	_	= Rate = (a) / (b)	
			= Rate =	

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Transmission Line</u> _____VISIT LOCATION/LOT: _____

ITEM: <u>Foundation</u> DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 205 Form	vorks			
Minor				
TRLWS-205-01	Conformance to the required type of formworks in accordance with approved shop/working drawings.	/	X	
TRLWS-205-02	Forms coated with mould oil as required.	/	X	
TRLWS-205-03	Sufficient bracing / support.	/	X	
TRLWS-205-04	No loose knots, splits, cracks, etc.	/	X	
TRLWS-205-05	Provision of required concrete or steel spacer.	/	X	
TRLWS-205-06	Conformance to specified tolerances for dimensions, locations, plumbness and alignment.	/	=X	
TRLWS-205-07	No use of dilapidated/salvage forms (use more than 3x)	/	X	
		/	=X	
Item 206 Reinfo Stressed Conc	prcing Steel Bars (including tendons for Pre/Post- rete)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
TRLWS-206-01	Conformance of in-placed materials to plans and specifications.	/	=X	
TRLWS-206-02	Non-appearance of corrosion on steel reinforcement.	/	=X	
Minor				
TRLWS-206-02	Non-appearance of rust on steel reinforcement.	/	=X	
TRLWS-206-03	Conformance to approved bar cutting schedule, proper spacing, anchorage and adequate reinforcements.	/	=X	
TRLWS-206-04	No sign of oil, paint and other deleterious materials on reinforcements.	/	=X	
TRLWS-206-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	X	
TRLWS-206-06	Conformance to proper bending of stirrups	/	X	
		/	=X	
		/	=X	
	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate= (a) / (b) =	
			Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Transmission Line LOCATION/LOT:

ITEM: Foundation DATE OF VISIT: / /

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is	Results	Score	Action Monito
Code	less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	results	x factor	wonito
Item 207 Concr	ete			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major I	Defects	
TRLWS-207-01	No through cracks.	/	=X	
TRLWS-207-02	No honeycomb (exposed rebars/aggregates).	/	X	
TRLWS-207-03	No sagging or bulging.	/	X	
TRLWS-207-04	Conformance to required quality of concrete mix	/	X	
TRLWS-207-05	Conformance to the required concrete cover for rebars.	/	X	
TRLWS-207-06	Conformance to the jointing requirement.	/	X	
TRLWS-207-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	X	
Minor				
TRLWS-207-01	No cracks.	/	=X	
TRLWS-207-02	No honeycomb.	/	=X	
TRLWS-207-03	No sagging or bulging.	/	=X	
TRLWS-207-05	Conformance to the required concrete cover for rebars.	/	=X	
TRLWS-207-06	Conformance to the jointing requirement.	/	=X	
TRLWS-207-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	=x	
TRLWS-207-08	Proper and adequate vibration.	/	=X	
TRLWS-207-09	Conformance to finishing/plastering requirement.	/	=X	
TRLWS-207-10	No chipping off of concrete cover.	/	=X	
TRLWS-207-11	Conformance to the batching, mixing, transporting and discharge time requirements.	/	=X	
TRLWS-207-12	Proper curing.	/	=X	
TRLWS-207-13	Conformance to required dimensions, lines. grades/ elevation, location.	/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
ntered by:	Date: / /		Rate= (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Transmission Line</u> ____VISIT

LOCATION: _____

ITEM: Slope Protection DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 300 Ripraj	o / 301 Grouted Riprap			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major De	fects	
TRLWS-3001	Conformance to plans and specifications (size, type, weight, etc. of boulders.)	/	X	
TRLWS-3002	Sufficient grout/mortar.	/	=X	
TRLWS-3003	Observance to proper placing of stones/boulders.	/	X	
TRLWS-3004	Conformance to the approved/required tolerance for slope and thickness.	/	=X	
TRLWS-3005	Compliance to the specified compaction and preparation of bedding.	/	=X	
TRLWS-3006	Compliance to design mix of mortar.	/	X	
TRLWS-3007	No through cracks	/	=X	
TRLWS-3008	Provision of weepholes.	/	=X	
Minor				
TRLWS-3007	No cracks.	/	X	
TRLWS-3008	Adequate and proper spacing of weepholes.	/	=X	
		/	=X	
		/	=X	
Item 302 Rockv	vall			
Major*				
TRLWS-302-01	Conformance to the required size of boulders.	/	=X	
TRLWS-302-02	Observance to proper placement of stones/boulders.	/	=X	
TRLWS-302-03	Conformance to the approved/required tolerance for length, slope and thickness.	/	=X	
		/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: <u>/ /</u>	_	Rate = (a) / (b) =	
			Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Transmission Line LOCATION: _____

ITEM: Slope Protection DATE OF VISIT: / /

Rate

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 303 Gabio	ns			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
TRLWS-303-01	Conformance to the required/approved tolerances for lines, grades, dimensions and arrangements as shown on the plans and designated locations.	/	X	
TRLWS-303-02	Observance to proper placing of stones/boulders.	/	X	
TRLWS-303-03	Conformance to specifications (size, type, weight, etc. of boulders, rocks).	/	X	
Minor				
TRLWS-303-04	No misalignment, bulging.	/	X	
TRLWS-303-05	Conformance to the required wire mesh cage fabrication requirement.	/	X	
		/	X	
Item 304 Fill				
Major*				
TRLWS-304-01	Conformance of in-placed materials to plans and specifications.	/	X	
TRLWS-304-02	Conformance to the required density or degree of compaction	/	X	
Minor				
TRLWS-304-03	Conformance to the required thickness of fill or backfill per layer.	/	X	
		/	X	
ltem 305 Soddi	ing / 306 Sprigging			
Minor				
TRLWS-3001	Conformance to the required scope of work.	/	X	
TRLWS-3002	Healthy, dense and well rooted.	/	X	
TRLWS-3003	Free from weeds or undesirable grasses.	/	=X	
		/	X	
	or used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No. of Indicators (b) =	
Entered by:	Date: / /	_	Rate = (a) / (b)	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Transmission Line LOCATION: _____

ITEM: Erection DATE OF VISIT: / /

0.1	INDICATORS		0	A - 1' (
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 400 Lattice	ed Structure (Tower)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
TRLWS-400-01	Tower parts and accessories are free from damages (i.e, structural steel works, anchor materials, bolts and nuts, washers, guy, etc.).	/	X	
TRLWS-400-02	Connectors of tower members are secured by bolts and nuts and washers.	/	=X	
TRLWS-400-03	Conformance to foundation requirements (i.e, correct orientation, finished elevations, embedded items).	/	=X	
TRLWS-400-04	Conformance to approved erection drawings.	/	X	
TRLWS-400-05	Tower parts completely installed.	/	=X	
Minor				
TRLWS-400-01	Tower parts and accessories are free from damages (i.e, structural steel works, anchor materials, bolts and nuts, washers, guy, etc.).	/	X	
TRLWS-400-02	Connectors of tower members are secured by bolts and nuts and washers.	/	X	
TRLWS-400-06	Non-appearance of white rust on all galvanized members and and accessories	/	X	
TRLWS-400-07	Bolts, nuts and washers conformed to the required number, number, sizes and strength.	/	=X	
TRLWS-400-08	Galvanized bolts and nuts are assembled with finger fit pressure only and interchangeable without shakes.	/	=X	
TRLWS-400-09	Conformance to bolt positions and insertion requirements.	/	=X	
TRLWS-400-10	Bolts fastened with specified torque.	/	X	
TRLWS-400-11	Tower members are completely installed.	/	X	
		/	=X X	
		/	=X X	
		, /	=X	
		/	=X	
		/	=X	
			= Total Score (a)	CAR Total
	r used? If yes, name of company and owner:	_	= No. of Indicators (b)	
Entered by:	Date: / /	_	= Rate = (a) / (b)	
			= Rate	

VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Transmission Line</u> LOCATION: _____

ITEM: Erection DATE OF VISIT: / /

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less	Describe	Score	Action /
Code	than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monitor
Item 401 Steel I	Poles / 402 Woodpoles / 403 Concrete Poles			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
TRLWS-4001	Conformance to approved erection drawings.	/	=X	
TRLWS-4002	Conformance to the required road right-of-way clearance.	/	=X	
TRLWS-4003	Conformance to required pole embedment.	/	=X	
TRLWS-4004	Provision of extension arms, brackets, braces, bolts, pole caps and other accessories.	/	X	
Minor				
TRLWS-4005	Conformance to required backfilling.	/	X	
TRLWS-4006	Conformance to approved staking distances.	/	X	
TRLWS-4007	Provision of pole identification and tag.	/	X	
TRLWS-4008	Provision of required anti-climbing device.	/	X	
		/	X	
Item 404 Guy				
Major*				
TRLWS-404-01	Conformance to plans and specifications.	/	X	
TRLWS-404-02	Conformance with the required proper anchorage.	/	X	
TRLWS-404-03	Proper connection of upper and lower guys.	/	X	
Minor			-	
TRLWS-404-03	Proper connection of upper and lower guys.	/	=X	
TRLWS-404-04	Provision of guy guard.	/	X	
TRLWS-404-05	Conformance with the required mounting angle.	/	X	
TRLWS-404-06	Provision of porcelain insulator.	/	X	
TRLWS-404-07	Provision of winding grip/turnbuckle.	/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Intered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate	1

PROJECT ID/NO.:	PROJECT TYPE: Transmission Line	ITEM: Dressing	
VISIT	LOCATION:	DATE OF VISIT:	

	INDICATORS			
Sub-item	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less		Score	Action /
Code	than fifty percent (50%) of the total number of spots, the rating for that specific	Results	x factor	Monitor
	item of work is zero (0).			
	ation of Insulator String Assembly and Ground Wire Set			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major Do		
TRLWS-500-01	Conformance to the specified insulator string assembly and ground wire set.	/	X	
TRLWS-500-02	Free from any form of damage.	/	X	
Minor				
TRLWS-500-02	Free from any form of damage.	/	=X	
TRLWS-500-03	Conformance to required gap and alignment of arcing horns.	/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	=X	
		/	=X	
		/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No. of Indicators (b) =	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate	
			=	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Transmission Line</u> LOCATION: _____

ITEM: Stringing DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 600 Pay-o	ut of OHGW / ACSR			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
TRLWS-600-01	Proper installation of rollers.	/	X	
TRLWS-600-02	Provision of back guys at each end of stringing section.	/	X	
TRLWS-600-03	Proper installation of anchors on engine puller and tensioner.	/	X	
TRLWS-600-04	Proper installation of scaffoldings on crossings.	/	X	
TRLWS-600-05	Provision of conductor protection to avoid contact to the ground and prevent damage.	/	X	
Item 601 Final	Sag of Conductors and Overhead Ground Wire			
Major*				
TRLWS-601-01	Conformance to the required clearance between conductors and crossings (i.e. roads, railroads, existing lines, etc.).	/	X	
TRLWS-601-02	No damaged conductors (i.e., cut strands, bird's cage, kinks, etc.).	/	X	
TRLWS-601-03	Conformance to the required sag of conductors.	/	X	
Minor				
TRLWS-601-03	Conformance to the required sag of conductors.	/	=X	
TRLWS-601-04	Conformance to the required location of joint / repair sleeves.	/	X	
		/	X	
	ation of Tension Clamps & Hardwares / 603 Suspension			
Clamps & Hard Major*	wares			
	Conformance to plans and specifications.	/	x	
TRLWS-6002	Free from any form of damage.	/	x	
Minor			_	
TRLWS-6002	Free from any form of damage.	/	X	
TRLWS-6003	Proper installation and correct number of armour rods.	/	X	
TRLWS-6004	Proper installation of clamps, hardwares, and accessories.	/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
intered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate	1

VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Transmission Line LOCATION: _____

ITEM: <u>Stringing</u> DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 604 Install	ation of Jumper Wires			
Minor				
TRLWS-604-01	Conformance to the required distance between jumper wires and cross arms.	/	X	
TRLWS-604-02	Conformance to jointing / splicing of wires.	/	X	
TRLWS-604-03	Free from any form of damage.	/	X	
		/	X	
Item 605 Vibra Minor	tion Dampers			
TRLWS-605-01	Installation conforms to plans and specifications.	/	X	
TRLWS-605-02	Free from any form of damage.	/	X	
TRLWS-605-03	Bolts fastened with specified torque.	/	X	
		/	X	
Item 606 Condu	ictor Spacers			
Minor				
TRLWS-606-01	Installation conforms to plans and specifications.	/	X	
TRLWS-606-02	Free from any form of damage.	/	=X	
TRLWS-606-03	Bolts fastened with specified torque.	/	=X	
		/	=^	
	Box and other Accessories for OPGW			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De		
TRLWS-607-01	Installation conforms to plans and specifications.	/	X	
TRLWS-607-02	Free from any form of damage.	/	=X	
		/	X	
	r used? If yes, name of company and owner:	_	Total Score (a) = No. of Indicators (b)	CAR Total
	Q Date: _ / _/_	_	= Rate = (a) / (b)	
			= Rate	-

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Transmission Line LOCATION: _____

ITEM: Stringing DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 608 Splicir	ng of OPGW			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De		
TRLWS-608-01	Conformance to plans and specifications.	/	X	
TRLWS-608-02	Splicing done with proper equipment/tools.	/	X	
TRLWS-608-03	Enclosure properly sealed and water tight.	/	=X	
TRLWS-608-04	Conformance with the required bonding and grounding.	/	=X	
Minor				
TRLWS-608-03	Enclosure properly sealed and water tight.	/	X	
TRLWS-608-04	Conformance with the required bonding and grounding.	/	X	
TRLWS-608-05	Provision of protective device.	/	x	
		/	x	
Item 609 Splicir	ng of ACSR / 610 OHGW			
Major*				
TRLWS-6001	Conformance to plans and specifications.	/	X	
TRLWS-6002	Splicing done with proper equipment/tools.	/	X	
		/	x	
Item 611 Other	Accessories			
Minor				
TRLWS-611-01	Installation of step bolts / step ladder.	/	X	
TRLWS-611-02	Installation of anti-climbing device.	/	X	
TRLWS-611-03	Installation of warning / danger plate (i.e. conformance to the size and dimension, orientation).	/	X	
TRLWS-611-04	Installation and correct location of patrol numbers (i.e. conformance to the size and dimension, orientation).	/	=X	
TRLWS-611-05	Installation and correct location of seclusion fence (i.e. conformance to the size and dimension).	/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
		_	No. of Indicators (b)	
Entered by:	Date: / /	_	= Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: <u>Transmission Line</u> LOCATION: _____

ITEM: <u>Submarine Cable</u> DATE OF VISIT: //

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action / Monitor
Item 700 Trencl	hing Works (Onshore)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	Major Det	ects	
TRLWS-700-01	Conformance to the depth and width requirement.	/	X	
		/	= X	
		/	= X	
Item 701 Subma	arine Cable Laying		-	
Major*				
TRLWS-701-01	Conformance to the required cable protection.	/	=X	
TRLWS-701-02	Free from any form of damage.	/	=X	
Minor				
TRLWS-701-03	Conformance to the required methodology of laying.	/	=X	
		/	=X	
		/	=X	
ltem 702 Install	ation of Accessories			
Minor				
TRLWS-702-01	Installation of buoy markers (i.e. number, distances, type/kind, etc.).	/	X	
TRLWS-702-02	Installation of cable tablets (i.e. dimensions, number, distances, type/kind, etc.).	/	=X	
		/	X	
		/	X	
Item 703 Backfi	Iling Works (Going to CTS)			
Major*		T		
TRLWS-703-01	Conformance to the required density or degree of compaction.	/	=X	
Minor TRLWS-703-02	Conformance to the required elevation of backfill.	/	×	
TRLWS-703-03	Ground level / Pavement restoration .	/	= X	
		/	= X	
Vas subcontracto	I used? If yes, name of company and owner:	8	– Total Score (a) =	CAR Total
	&	-	No. of Indicators (b) =	1
Entered by:	Date: / /	_	Rate = (a) / (b)	
			– Rate	-1

PROJECT ID/NO.: _____ PROJECT

PROJECT TYPE: <u>Transmission Line</u> LOCATION: _____ ITEM: <u>Underground Cable</u> DATE OF VISIT: ///

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 800 Trencl	hing Works / 801 Grounding Hole			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major De		
TRLWS-8001	Conformance to the required depth and width of trench.	/	=X	
Minor				
TRLWS-8002	Provision of protective cover.	/	=X	
		/	=X	
		/	X	
		/	=X	
		/	X	
Item 802 Under	ground Cable Laying			
Major*				
TRLWS-802-01	Conformance to the required methodology.	/	X	
TRLWS-802-02	Free from any form of damage.	/	=X	
Minor				
TRLWS-802-03	Conformance to the required cable protection.	/	=X	
TRLWS-802-04	Provision of warning tape and concrete plate.	/	=X	
TRLWS-802-05	Installation of marking post at specified distance.	/	X	
TRLWS-802-06	Provision of applicable cable spacer.	/	=X	
TRLWS-802-07	Conformance to bedding and backfilling requirements.	/	X	
		/	X	
		/	=X	
		/	=X	
		/	X	
	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
	Date: _ / _/_	_	= Rate = (a) / (b) = Rate	
			=	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Transmission Line LOCATION: _____

ITEM: Underground Cable DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 803 Cable	Termination			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	fects	
TRLWS-803-01	Conformance to plans and specifications.	/	X	
Minor				
TRLWS-803-02	Provision of grounding and bonding.	/	X	
TRLWS-803-03	Identification of cable pair on terminal blocks.	/	X	
TRLWS-803-04	Provision of cable rack hooks including bolts, plates and cable supporters.	/	=X	
		/	=X	
Item 804 Splice	Joint			
Major*				
TRLWS-804-01	Conformance to plans and specifications.	/	X	
Minor				
TRLWS-804-02	Provision of grounding and bonding.	/	X	
		/	X	
Item 805 Splici	ng of Cable			
Major*				
TRLWS-805-01	Conformance with the required position.	/	X	
TRLWS-805-02	Enclosure properly sealed and water tight.	/	X	
TRLWS-805-03	Splicing done with proper equipment/tools.	/	X	
Minor				
TRLWS-805-03	Splicing done with proper equipment/tools.	/	X	
TRLWS-805-04	Conformance with the required bonding and grounding.	/	X	
TRLWS-805-05	Provision of protective device.	/	X	
		/	X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
		_	No. of Indicators (b) =	
Intered by:	Date: _/ /_	_	Rate = (a) / (b) =	
			Rate	
				L

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CPES CHECKLIST FOR WORKMANSHIP

 PROJECT ID/NO.:
 PROJECT TYPE: Transmission Line
 ITEM: Pre-Commissioning

 ____VISIT
 LOCATION:
 DATE OF VISIT:
 / /

		T.		
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest o the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 900 Pre-C	Commissioning			
Minor				
TRLWS-900-01	Conformance to the required line clearances.	/	=X	
TRLWS-900-02	No tripping of line during testing.	/	=X	
		/	X	
		/	=X	
		/	X	
		/	X	
		/	=X	
		/	=X	
		/	=X	
		/	X	
		/	=X	
	or used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: _/	<u>/</u>	Rate = (a) / (b) =	
			Rate =	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Substation</u> ITEM: <u>Site Development</u> LOCATION: _____ DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 100 Bound	lary Establishment			
SSWS-100-01	Boundary of site/area for development accurately established.	/	X	
		/	X	
		/	X	
101 Clearing ar	nd Grubbing / 102 Removal of Structure and Obstruction			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
SSWS-1001	Proper removal of undisputed stumps roots and non- perishable solid objects/structures, vegetation, debris, trees and other obstruction.	/	X	
Minor				
SSWS-1002	Conformance to proper disposal.	/	=X	
		/	=X	
		/	X	
Item 103 Gradi	ng Excavation / 104 Structure Excavation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
SSWS-1001	Adherence to proper construction methodology.	/	X	
SSWS-1002	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/	X	
Minor				
SSWS-1001	Adherence to proper construction methodology.	/	X	
SSWS-1002	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	X	
SSWS-1003	Conformance to proper disposal.	/	X	
		/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
		_	=	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Substation</u> ITEM: <u>Site Development</u>

LOCATION: _____ DATE OF VISIT: / /

9				
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
ltem 105 Emba	nkment / 106 Subgrade Preparation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
SSWS-1001	Adherence to proper construction methodology (if no longer correctible, e.g., layering, Item 105 not undertaken).	/	=X	
SSWS-1002	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/	X	
SSWS-1003	Adherence to compaction procedure and required equipment (if no longer correctible, e.g., done in layers but do not meet required compaction and succeeding layer was laid).	/	x	
Minor				
SSWS-1001	Adherence to proper construction methodology.	/	X	
SSWS-1002	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	X	
SSWS-1003	Adherence to compaction procedure and required equipment (correctible).	/	X	
		/	X	
		/	X	
		/	=X	
Item 107 Gradii	ng Fill / 108 Backfill / 109 Selected Fill			
Major				
SSWS-1001	Conformance of in-placed materials to plans and specifications.	/	X	
SSWS-1002	Conformance to the required density or degree of compaction.	/	X	
Minor				
SSWS-1003	Conformance to the required thickness of fill or backfill per layer.	/	=X	
		/	X	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
		_	=	
спістей ру	Date: / /		Rate = (a) / (b) =	
			Rate =	

VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Substation</u> ITEM: <u>Site Development</u> LOCATION: _____ DATE OF VISIT: _ / /__

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 110 Aggre	gate Sub-Base Course / 111 Aggregate Base Course			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
SSWS-1101	Conformance of in-placed materials to plans and specifications.	/	=X	
SSWS-1102	Adherence to proper construction methodology. (if no longer correctible, e.g., layer)	/	=X	
SSWS-1103	Conformance w/ approved/specified tolerances on lines, grades, cross-section, thickness, elevation, dimensions & plans. (if no longer correctible, e.g., not extended to shoulder and other succeeding items are already in-placed).	/	x	
SSWS-1104	Conformance to the required compaction.	/	=X	
Minor				
SSWS-1101	Conformance of in-placed materials to plans and specifications.	/	=X	
SSWS-1102	Adherence to proper construction methodology. (correctible)	/	=X	
SSWS-1103	Conformance w/ approved/specified tolerances on lines, grades, cross-section, thickness, elevation, dimensions & plans. (correctible)	/	X	
SSWS-1104	Conformance to the required compaction.	/	X	
SSWS-1105	Sub-base/Base extended to shoulders.	/	=X	
SSWS-1106	Non-occurrence of subbase settlement/upheaval.	/	X	
SSWS-1107	Provision of required stakes.	/	X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	

PROJ. ID/NO.: _____ ____VISIT PROJECT TYPE: <u>Substation</u> LOCATION/LOT:_____

ITEM: <u>Site Development</u> DATE OF VISIT: ///

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 113 Pipe C	ulvert and Storm Drains			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major De	efects	
SSWS-113-01	Conformance to the required/approved tolerance for slope, alignment, elevation and dimensions.	/	=X	
Minor				
SSWS-113-02	No cracks, honeycombs, chipping of edges.	/	=X	
SSWS-113-03	Compliance to joint mortar mixing proportions.	/	=X	
SSWS-113-04	Sufficient collaring and flushing.	/	X	
SSWS-113-05	Compliance to the required thickness, compaction & materials requirement of gravel bedding.	/	=X	
SSWS-113-06	Compliance to the required thickness & compaction of backfill.	/	=X	
SSWS-113-07	Conformance to trenching requirements.	/	=X	
SSWS-113-08	Free from debris, siltation, etc.	/	=X	
		/	=X	
ltem 114 Manho	les, Inlets, and Catch Basins			
Major				
Major SSWS-114-01	Conformance to connection requirements between pipes & inlet wall.	/	X	
-		/	=X =X =X	
SSWS-114-01	pipes & inlet wall.	/	=X X =	
SSWS-114-01 SSWS-114-02	pipes & inlet wall.	/ / /	=X =X =X	
SSWS-114-01 SSWS-114-02 Minor	pipes & inlet wall. Conformance with plans and design specifications.	/ / / /	=	
SSWS-114-01 SSWS-114-02 Minor SSWS-114-03	pipes & inlet wall. Conformance with plans and design specifications. No damage on manhole, inlets & catch basins.	/	=X	
SSWS-114-01 SSWS-114-02 Minor SSWS-114-03 SSWS-114-04	pipes & inlet wall. Conformance with plans and design specifications. No damage on manhole, inlets & catch basins. No cracks.	/	=X =X =X	
SSWS-114-01 SSWS-114-02 Minor SSWS-114-03 SSWS-114-04 SSWS-114-05	pipes & inlet wall. Conformance with plans and design specifications. No damage on manhole, inlets & catch basins. No cracks. No honeycomb.	/	=X =X =X =X	
SSWS-114-01 SSWS-114-02 Minor SSWS-114-03 SSWS-114-04 SSWS-114-05 SSWS-114-06	pipes & inlet wall. Conformance with plans and design specifications. No damage on manhole, inlets & catch basins. No cracks. No honeycomb. Free from debris, siltation, etc. Covers and gratings are well fitted and can easily be opened	/ / / /	=X =X =X =X =X	
SSWS-114-01 SSWS-114-02 Minor SSWS-114-03 SSWS-114-04 SSWS-114-05 SSWS-114-06 SSWS-114-07	pipes & inlet wall. Conformance with plans and design specifications. No damage on manhole, inlets & catch basins. No cracks. No honeycomb. Free from debris, siltation, etc. Covers and gratings are well fitted and can easily be opened	/ / / / /	=X =X =X =X =X =X	CAR Total
SSWS-114-01 SSWS-114-02 Minor SSWS-114-03 SSWS-114-04 SSWS-114-05 SSWS-114-06 SSWS-114-07	pipes & inlet wall. Conformance with plans and design specifications. No damage on manhole, inlets & catch basins. No cracks. No honeycomb. Free from debris, siltation, etc. Covers and gratings are well fitted and can easily be opened during maintenance work.		=X =X =X =X =X =X =X =X	CAR Total
SSWS-114-01 SSWS-114-02 Minor SSWS-114-03 SSWS-114-04 SSWS-114-05 SSWS-114-05 SSWS-114-06 SSWS-114-07 Was subcontractor	pipes & inlet wall. Conformance with plans and design specifications. No damage on manhole, inlets & catch basins. No cracks. No honeycomb. Free from debris, siltation, etc. Covers and gratings are well fitted and can easily be opened during maintenance work. (s) used? If yes, name of company(ies) and sub-item:		=X =XX =X	CAR Total

PROJ. ID/NO.: _____ ___VISIT

 PROJECT TYPE: Substation
 ITEM: Site Development

 LOCATION/LOT:
 DATE OF VISIT:

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 112 Portla	nd Cement Concrete Pavement			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects	5	
SSWS-112-01	No longitudinal cracks.	/	=X	
SSWS-112-02	Conformance to vibration requirement.	/	=X	
SSWS-112-03	Conformance to quality of concrete mix.	/	=X	
SSWS-112-04	Conformance to requirements of construction joints (outside middle thirds).	/	=X	
SSWS-112-05	No through cracks (all types of cracks).	/	X	
SSWS-112-06	No scaling (severe, needs Removal and Replacement).	/	X	
SSWS-112-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section. (>10% deficient)	/	X	
Minor				
SSWS-112-05	No cracks e.g. transverse, diagonal, temperature, corner, restraint.	/	=X	
SSWS-112-06	No scaling.	/	=X	
SSWS-112-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (≤10% deficient).	/	=X	
SSWS-112-08	No honeycomb.	/	X	
SSWS-112-09	No spalling.	/	=X	
SSWS-112-10	No chipped-off edges.	/	X	
SSWS-112-11	Conformance to required size, location & spacing of tie bars and dowel bars as per specifications.	/	=X	
SSWS-112-12	Conformance to proper curing procedures.	/	=X	
SSWS-112-13	Utilization of templates prior to pouring.	/	=X	
SSWS-112-14	Conformance to placing requirement which will not result to segregation of aggregates, cold joints, misalignment.	/	=X	
SSWS-112-15	Conformance to required amount of asphalt sealant on weakened plane joints. (insufficient and excessive application)	/	=X	
SSWS-112-16	Conformance to requirement of pavement blockings (include depths and widths of weakened plane joints)	/	=X	
SSWS-112-17	No hardened/spilled concrete on pavement.	/	=X	
SSWS-112-18	No pokemarks/tire marks/animal foot marks/skid marks, etc.	/	=X	
SSWS-112-19	Conformance to proper finishing of concrete (brooming)	/	=X	
SSWS-112-20	Conformance to formwork requirements (wooden, defective steel and not applied with oil/grease)	/	=X	
	r(s) used? If yes, name of company(ies) and sub-item:		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
intered by:	Date: / /		Rate = (a) / (b) =	
			Rate	1

VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation LOCATION: _____ ITEM: Site Development DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

J.	INDICATORS			I
Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the		Score	Action /
Code	indicators in the said spot. Further, if the number of complying spots is less	Results	x factor	Monitor
Code	than fifty percent (50%) of the total number of spots, the rating for that specific		^ 100101	
	item of work is zero (0).			
Item 117 Topsol Planting	il / 118 Sprigging / 119 Sodding / 120 Ornament Plant/Tree			
SSWS-101	Conformance to appropriate type, thickness and density	1	x	
	of soil.	7	=	
SSWS-102	Conformance to approved slope.	/	X	
SSWS-103	Conformance to the required type of grass/planting materials.	/	X	
SSWS-104	Healthy, dense and well rooted.	/	X	
SSWS-105	Free from weeds or undesirable grasses.	/	X	
		/	X	
		/	=X	
Item 121 Perime	eter Fence			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major De	efects	
SSWS-121-01	Conformance to the approved/specified tolerance for alignment, dimension, plumbness and elevation.	/	X	
SSWS-121-02	Conformance to required quality of CHB	/	X	
SSWS-121-03	Conformance to required quality of mortar mix	/	X	
Minor				
SSWS-121-04	Proper spacing of horizontal and vertical bars.	/	X	
SSWS-121-05	Rebars used free from corrosion.	/	X	
SSWS-121-06	Installed according to plans and specifications.	/	X	
SSWS-121-07	Conformance to the specified/designed depth of fence footings.	/	X	
SSWS-121-08	Conformance to the specified/designed length of fence per bay.	/	X	
		/	=X	
		/	X	
		/	X	
Was subcontractor	used? If yes, name of company and owner:		Total Score (a) –	CAR Total
			= No. of Indicators (b)	
	u	-		
Entered by:	Date: <u>/ /</u>	_	– Rate = (a) / (b)	
			= Rate	
			IVale	

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PROJECT ID/NO.: _____ PROJECT TYPE: <u>Substation</u> _____VISIT LOCATION: _____

ITEM: <u>Site Development</u> DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
ltem 115 Riprap	and Grouted Riprap			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major De	efects	
SSWS-115-01	No through cracks.	/	X	
SSWS-115-02	Conformance to specifications (size, type, weight, etc. of boulders).	/	X	
SSWS-115-03	Sufficient grout/mortar.	/	=X	
SSWS-115-04	Observance to proper placing of stones/boulders.	/	=X	
SSWS-115-05	Conformance to the approved/required tolerance for slope and thickness.	/	X	
SSWS-115-06	Compliance to the specified compaction and preparation of bedding.	/	=X	
SSWS-115-07	Compliance to design mix of mortar.	/	X	
SSWS-115-08	Provision of weepholes.	/	=X	
Minor				
SSWS-115-01	No cracks.	/	X	
SSWS-115-08	Adequate and proper spacing of weepholes.	/	=X	
		/	X	
Item 116 Gabior	1			
Major				
SSWS-116-01	Conformance to the required/approved tolerances for lines, grades, dimensions and arrangements as shown on the plans and designated locations.	/	=X	
SSWS-116-02	Observance to proper placing of stones/boulders.	/	=X	
SSWS-116-03	Conformance to specifications (size, type, weight, etc. of boulders, rocks).	/	=X	
Minor				
SSWS-116-04	No misalignment, bulging.	/	X	
SSWS-116-05	Conformance to the required wire mesh cage fabrication requirement.	/	=X	
		/	=X	
	used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b) =	
			Rate	

VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation ITEM: Site Development LOCATION: _____

DATE OF VISIT: / /

U				r
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action / Monitor
Item 122 Gate				
SSWS-122-01	Conformance to the approved/specified tolerance for alignment, dimension, and plumbness	/	X	
SSWS-122-02	Installed according to plans and specifications.	/	X	
		/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
Item 123 Outdo	or, Roadway and Perimeter Lighting System			
SSWS-123-01	Conformance of in-placed materials to plans and specifications.	/	X	
SSWS-123-02	Provision of waterproofed structure implement for outdoor illumination.	/	=X	
SSWS-123-03	Conformance to the required dimension of lighting poles (height, diameter)	/	=X	
SSWS-123-04	Proper installation of lighting poles and fixtures (bulbs, switches, wires, cables, load break switch, power fuse, lightning arrester).	/	=X	
SSWS-123-05	Proper installation of electrical wiring resulting to non-peeling-off of insulation.	/	X	
SSWS-123-06	Proper installation of conduit pipes.	/	=X	
SSWS-123-07	Provision of concrete encasement for pipes and conduits.	/	=X	
		/	=X	
		/	X	
		/	=X	
		/	=X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =]

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation LOCATION: _____

ITEM: Site Development DATE OF VISIT: / /

	INDICATORS			
Sub-item	*Note: Spots with a single major defect shall forfeit all points for the rest of the		Score	Action /
Code	indicators in the said spot. Further, if the number of complying spots is less	Results	x factor	Monitor
	than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 124 Deepw	vell Drilling and Development			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Maior De	efects	
	Drilled and developed according to plans and	,	X	
SSWS-124-01	specifications.	/	=	
SSWS-124-02	Complied and passed draw down tests.	/	=X	
SSWS-124-03	Water quality complied and passed test requirements.	/	X	
Minor				
SSWS-124-04	Drilling method suited to condition of deep well site to be drilled.	/	=X	
SSWS-125-05	Method of placing the formation stabilizer/gravel pack in the annulus are done in such a way that separation of gravel and bridging are avoided.	/	=X	
SSWS-124-06	Well is cleaned in accordance with the specified method.	/	=X	
		/	X	
		/	X	
		/	X	
Ham 125 Deany	all Submaraible Dump			
item 125 Deepw	vell Submersible Pump			
-				
Major SSWS-125-01	Complied and passed required test.	/	X	
Major		/	=X	
Major SSWS-125-01		/	=X =X =X	
Major SSWS-125-01 Minor	Complied and passed required test. Installed according to plans and specifications complete with controls and accessories. Provision of steel guard on power cable along the well	/ / / /	=X	
Major SSWS-125-01 Minor SSWS-125-02	Complied and passed required test. Installed according to plans and specifications complete with controls and accessories.	/ / / /	=X	
Major SSWS-125-01 Minor SSWS-125-02 SSWS-125-03	Complied and passed required test. Installed according to plans and specifications complete with controls and accessories. Provision of steel guard on power cable along the well casing. Pump is operated in conjunction with the level controller	/ / / / /	=X =X =X	
Major SSWS-125-01 Minor SSWS-125-02 SSWS-125-03 SSWS-125-04	Complied and passed required test. Installed according to plans and specifications complete with controls and accessories. Provision of steel guard on power cable along the well casing. Pump is operated in conjunction with the level controller installed at the water tank.	-	=X =X =X =X	
Major SSWS-125-01 Minor SSWS-125-02 SSWS-125-03 SSWS-125-04	Complied and passed required test. Installed according to plans and specifications complete with controls and accessories. Provision of steel guard on power cable along the well casing. Pump is operated in conjunction with the level controller installed at the water tank.	/	=X =X =X =X =X	
Major SSWS-125-01 Minor SSWS-125-02 SSWS-125-03 SSWS-125-04	Complied and passed required test. Installed according to plans and specifications complete with controls and accessories. Provision of steel guard on power cable along the well casing. Pump is operated in conjunction with the level controller installed at the water tank.	/	=X =X =X =X =X =X	
Major SSWS-125-01 Minor SSWS-125-02 SSWS-125-03 SSWS-125-04 SSWS-125-05	Complied and passed required test. Installed according to plans and specifications complete with controls and accessories. Provision of steel guard on power cable along the well casing. Pump is operated in conjunction with the level controller installed at the water tank.	/ / /	=X =X =X =X =X =X =X	CAR Total
Major SSWS-125-01 Minor SSWS-125-02 SSWS-125-03 SSWS-125-04 SSWS-125-05	Complied and passed required test. Installed according to plans and specifications complete with controls and accessories. Provision of steel guard on power cable along the well casing. Pump is operated in conjunction with the level controller installed at the water tank. Provision of uPVC conduits for underground power cables.	/ / /	=X =X =X =X =X =X =X =X =X =X	CAR Total
Major SSWS-125-01 Minor SSWS-125-02 SSWS-125-03 SSWS-125-04 SSWS-125-05	Complied and passed required test. Installed according to plans and specifications complete with controls and accessories. Provision of steel guard on power cable along the well casing. Pump is operated in conjunction with the level controller installed at the water tank. Provision of uPVC conduits for underground power cables.	/ / /	=X =XX =XXX =XXXXXX	CAR Total

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation

ITEM: Site Development DATE OF VISIT: / /

Rate

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the		Score	Action /
Code	indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monitor
Item 126 Eleva	ted Steel Water Tank			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Maior De	facts	
-	Elevated water storage tank and support structure are		X	
SSWS-126-01	installed in accordance with plans and specifications.	/	=	
SSWS-126-02	Complied and passed required leak tests.	/	=X	
SSWS-126-03	Free from corrosion and any form of damages.	/	X	
Minor				
SSWS-126-03	Free from rust and any form of damages.	/	X	
SSWS-126-04	Installed according to plan complete with control and accessories (i.e., balcony with handrail, access caged ladder, air vent, water level indicator, overflow pipe, inlet-outlet piping, drain valves and fittings, level switch attachment, access hatch, beacon red warning light).	/	=X	
SSWS-126-05	Structural members free of twist, bends and deformations.	/	X	
		/	=X	
		/	X	
Item 127 Dome	stic Water Supply Piping System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major De	efects	
SSWS-127-01	Installed pipes, fittings and valves conformed to plans and specifications.	/	=X	
SSWS-127-02	Water line laid not less than 1.0 meter from sewer lines.	/	=X	
SSWS-127-03	Complied and passed hydraulic and leak tests.	/	=X	
Minor				
SSWS-127-04	Pipes laid free from dirt or other foreign materials.	/	=X	
SSWS-127-05	Provision of pipe sleeves for pipes crossing roadways.	/	=X	
SSWS-127-06	Provision of temporary pipe blind flange/caps at both ends during installation.	/	=X	
SSWS-127-07	Potable water lines are disinfected prior to use.	/	=X	
		/	=X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
		_	No. of Indicators (b)	

VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Substation</u> ITEM: <u>Building</u>

LOCATION: _____ DATE OF VISIT: _ / _/_

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 200 Excav				
SSWS-200-01	Conformance to the approved/specified tolerances for extent for lines, grades, dimensions, elevations	/	=X	
SSWS-200-02	Conformance to the excavation support system, e.g. angle of repose, bracing, shoring, sheet piling)	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
ltem 201 Fill an	d Backfill, Selected Fill			
SSWS-201-01	Conformance of in-placed materials to plans and specifications.	/	X	
SSWS-201-02	Conformance to the required thickness of fill or backfill per layer.	/	X	
SSWS-201-03	Conformance to the required density or degree of compaction	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Item 202 Soil P	oisoning			
SSWS-202-01	Conformance to the specified concentration of soil poisoning solution.	/	X	
SSWS-202-02	Conformance to the specified rate of application.	/	X	
		/	x	
		/	x	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: / /	_	Rate = (a) / (b)	
			Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation

ITEM: Building DATE OF VISIT: / /

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monito
Kama 000 011D				
Item 203 CHB				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	1	
SSWS-203-01	Conformance to required qualtiy of CHB.	/	X	
SSWS-203-02	Conformance to required quality of mortar mix. (i.e. shoring, bracing, sheet piling)	/	=X	
Minor				
SSWS-203-03	Conformance to specified tolerances for dimension, location, plumbness and alignment.	/	=X	
SSWS-203-04	Proper spacing of horizontal and vertical bars.	/	=X	
SSWS-203-05	Rebars used free from corrosion.	/	X	
		/	x	
		/	= X	
		/	= X	
			= X	
		/	=	
Item 204 Brick	Wall			
Major			X	
SSWS-204-01	Conformance to required qualtiy of mortar mix.	/	=	
1				
Minor	Conformance to expecified telerances for dimension		×	
Minor SSWS-204-02	Conformance to specified tolerances for dimension, location, plumbness and alignment.	/	X	
SSWS-204-02	location, plumbness and alignment.	/ / /	=	F
SSWS-204-02 SSWS-204-03	location, plumbness and alignment. Proper spacing of horizontal and vertical bars.	/	=X =X	
SSWS-204-02 SSWS-204-03	location, plumbness and alignment. Proper spacing of horizontal and vertical bars.	/	=X =X =X =X	
SSWS-204-02 SSWS-204-03	location, plumbness and alignment. Proper spacing of horizontal and vertical bars.	/ / /	=X =X =X =X =X	
SSWS-204-02 SSWS-204-03	location, plumbness and alignment. Proper spacing of horizontal and vertical bars.	/ / / /	=X =X =X =X =X =X	
SSWS-204-02 SSWS-204-03 SSWS-204-04	location, plumbness and alignment. Proper spacing of horizontal and vertical bars. Rebars used free from corrosion.	/ / / / /	=X =X =X =X =X =X =X Total Score (a)	CAR Total
SSWS-204-02 SSWS-204-03 SSWS-204-04	location, plumbness and alignment. Proper spacing of horizontal and vertical bars.	/ / / / /	=X =X =X =X =X =X =X Total Score (a) =X No. of Indicators (b)	CAR Total
SSWS-204-02 SSWS-204-03 SSWS-204-04 /as subcontracto	Iocation, plumbness and alignment. Proper spacing of horizontal and vertical bars. Rebars used free from corrosion. Image: spacing of horizontal and vertical bars. rebars used free from corrosion. Image: spacing of horizontal and vertical bars. Image: s	/ / / / /	=X =X =X =X =X =X =X Total Score (a) =X	CAR Total

 PROJECT ID/NO.:
 PROJECT TYPE: Substation

 ____VISIT
 LOCATION:

ITEM: Building DATE OF VISIT: / /

Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action . Monito
Item 205 Tiled Fi	nish			
SSWS-205-01	Installed tiles free from chipping, cracks or any form of damages.	/	=X	
SSWS-205-02	Mortar/Grout consistency and color conform to specification.	/	=X	
SSWS-205-03	Joints are perfectly aligned and consistent with skirting and wall tiles.	/	=X	
SSWS-205-04	Tiles are evenly placed/laid.	/	=X	
SSWS-205-05	Tiles in wet areas sloped down to drain.	/	=X	
SSWS-205-06	Tiles are properly bonded to floor.	/	=X	
		/	=X	
Item 206 Carpet				
SSWS-206-01	Evenly stretched and of even surface.	/	=X	
SSWS-206-02	Properly anchored at all edges.	/	=X	
SSWS-206-03	Provided with underlining.	/	=X	
SSWS-206-04	Free from any form of damages.	/	=X	
SSWS-206-05	Materials conform to specification as per plan.	/	=X	
		/	=X	
Item 207 Wood F	Parquet			
SSWS-207-01	Conforms to designed layout.	/	=X	
SSWS-207-02	Even surfaces.	/	=X	
SSWS-207-03	Free from any form of damage.	/	=X	
SSWS-207-04	Adhesive conforms to specifications.	/	=X	
SSWS-207-05	Parquet properly bonded to floor.	/	=X	
		/	=X	
Was subcontractor used? If yes, name of company and owner:			Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /	_	= Rate = (a) / (b)	
				_

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation LOCATION: _____

ITEM: Building DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monito
Item 208 Trowe	elled Floor Finish			
SSWS-208-01	Smooth and even floor finish.	/	X	
SSWS-208-02	No temperature cracks.	/	=X	
SSWS-208-03	No sign of deflection/settlement.	/	X	
		/	X	
		/	X	
		/	X	
Item 209 Pebbl	e Washout			
SSWS-209-01	Installed pebbles are evenly distributed.	/	X	
SSWS-209-02	No temperature cracks.	/	X	
SSWS-209-03	Installed pebbles surface are thoroughly clean from cement.	/	X	
		/	X	
		/	X	
		/	=X	
Item 210 Water	proofing			
SSWS-210-01	Conforms to specified method of application.	/	X	
SSWS-210-02	Conforms to number of coats/layers required.	/	X	
SSWS-210-03	Passed required leak test.	/	X	
SSWS-210-04	Conformance to the required materials specifications as per plan.	/	X	
		/	X	
		/	X	
		/	X	
as subcontracto	or used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		 No. of Indicators (b) 	
ntered by:	Date: / /	_	Rate = (a) / (b)	
			= Rate	4

PROJECT ID/NO.: _____ ____VISIT

PROJECT TYPE: <u>Substation</u> LOCATION: _____

ITEM: <u>Building</u> DATE OF VISIT: <u>/ /</u>

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monito
Item 211 Wall F	aper			
SSWS-211-01	Smooth and evenly pasted.	/	X	
SSWS-211-02	Free from scratches, stains, etc.	/	X	
		/	X	
		/	X	
		/	X	
lem 212 Wall F	laster Finish			
SSWS-212-01	Conformance to designed mixture of plastering materials.	/	X	
SSWS-212-02	Conformance to specified method of application and thickness of plastering.	/	X	
SSWS-212-03	True to alignment.	/	X	
SSWS-212-04	Free from any form of damages, e.g. cracks, peeled-off plaster finish	/	X	
		/	X	
		/	X	
		/	X	
Item 213 Wall	Cladding			
SSWS-213-01	Panels properly anchored.	/	X	
SSWS-213-02	True to alignment, plumbness.	/	X	
SSWS-213-03	Free from any form of damages.	/	X =	
SSWS-213-04	Panels conform to construction procedure.	/	X	
		/	X	
		/	X	
		/	X	
as subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
			No. of Indicators (b) =	
ntered by:	Date: / /	-	Rate = (a) / (b)	
			= Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation

ITEM: Building DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 214 Wall F	Painting			
SSWS-214-01	Surface prepared according to specification.	/	X	
SSWS-214-02	Required neutralizers, etc. applied.	/	=X	
SSWS-214-03	Applied paint appropriate to the surface.	/	=X	
SSWS-214-04	Specified number of coats applied.	/	=X	
SSWS-214-05	Surfaces evenly painted, proper opacity.	/	=X	
SSWS-214-06	No discoloration and peeling-off of paint.	/	=X	
SSWS-214-07	Paints conform to specification/requirements.	/	X	
SSWS-214-08	Surfaces are properly applied with putty/patching compound.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Item 215 Ceilir	ng Suspension			
SSWS-215-01	Conformance to the specified spacing and length of hangers, clips and joists.	/	X	
SSWS-215-02	Installed hangers are properly anchored and firm.	/	X	
SSWS-215-03	True to alignment and elevation in conformance to the approved specified tolerance.	/	X	
SSWS-215-04	Free from any form of damage.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
as subcontracto	r used? If yes, name of company and owner:		– Total Score (a) =	CAR Total
	&		 No. of Indicators (b) 	
intered by:	Date:/ /	_	– Rate = (a) / (b)	
			= Rate	4

PROJECT NO.: _____ ____VISIT PROJECT TYPE: <u>Substation</u> LOCATION: _____ ITEM: <u>Building</u> DATE OF VISIT: <u>/ /</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 216 Ceilin	g Board			
SSWS-216-01	Materials free from any form of damage.	/	=X	
SSWS-216-02	Smooth surface and true to elevation and alignment.	/	=X	
SSWS-216-03	Location of holes for utilities conforms to plans.	/	=X	
SSWS-216-04	Ceiling boards are properly fastened.	/	=X	
		/	=X	
Item 217 Ceilir	ng Moulding			
SSWS-217-01	True to elevation and alignment.	/	X	
SSWS-217-02	Installed materials are free from any form of damages.	/	X	
		/	X	
Item 218 Roof	ing Frames			
SSWS-218-01	Conformance to the required size, spacing, slope, anchorage, etc.	/	X	
SSWS-218-02	Free from any form of damage.	/	X	
SSWS-218-03	Cleats are properly provided.	/	X	
SSWS-218-04	Application of paint primer prior to installation	/	X	
		/	X	
Item 219 Roofi	ng Sheets		-	
SSWS-219-01	Conformance to the specified gauge, length, etc.	/	X	
SSWS-219-02	Conformance to the specified overlapping, sealing of joints, fastening.	/	X	
SSWS-219-03	Installation of flashing, gutters, ridge rolls, downspouts, etc., according to plans.	/	X	
SSWS-219-04	Non-occurrence of leaks.	/	X	
SSWS-219-05	Free from any form of damage.	/	X	
Vas subcontracto	or used? If yes, name of company and owner:		– Total Score (a)	CAR Total
	&&		No. of Indicators (b)	
Entered by:	Date: / /	-	Rate = (a) / (b)	
			= Rate	4

PROJECT NO.: ______ ____VISIT PROJECT TYPE: <u>Substation</u> LOCATION: _____ ITEM: <u>Building</u> DATE OF VISIT: //

Rate

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 220 Door	S			
SSWS-220-01	True to alignment, plumbness in conformance to the approved/specified tolerance.	/	X	
SSWS-220-02	Doors are well fitted to the door frames.	/	=X	
SSWS-220-03	Door accessories installed according to plans, e.g. locksets, door closers, hinges, door stoppers.	/	=X	
SSWS-220-04	Free from any form of damage.	/	=X	
SSWS-220-05	Doors conform to specification requirements, e.g. panel door, flush door polyvinyl, steel doors, etc.	/	=X	
		/	X	
		/	X	
Item 221 Wind	ows			
SSWS-221-01	True to alignment and elevation in conformance to the approved/specified tolerance.	/	=X	
SSWS-221-02	Windows are well fitted to the window frames.	/	=X	
SSWS-221-03	Window accessories installed according to plans, e.g. handles, seals, glazing for glass window, etc.	/	=X	
SSWS-221-04	Free from any form of damage.	/	=X	
SSWS-221-05	Windows conform to specification requirements, e.g. sliding, jalousies (glass and wooden) steel casement windows.	/	X	
		/	X	
		/	=X	
Item 222 Raili	ngs			
SSWS-222-01	Installed according to plans.	/	X	
SSWS-222-02	Free from dents, scratches or any form of damage.	/	X	
SSWS-222-03	Bends and curves are smooth.	/	X	
SSWS-222-04	Conforms to approved tolerance size, dimension, height and type, e.g. concrete, steel, stainless, aluminum, etc.	/	X	
		/	=X	
Vas subcontractor used? If yes, name of company and owner:		•	Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Intered by:	Date: / /	_	Rate = (a) / (b)	

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: <u>Building</u>
VISIT	LOCATION:	_ DATE OF VISIT: _ / _ /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 225 Struct	ural Steel Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	fects	
SSWS-225-01	Conformance of in-placed materials to plans and specifications.	/	X	
SSWS-225-02	Conformance to required fasteners, anchor bolts, bolts/nuts and washers (not provided).	/	X	
SSWS-225-03	Free from corrosion and any other form of damages.	/	X	
SSWS-225-04	Conformance to splicing requirements.	/	X	
Minor				
SSWS-225-03	Free from rust and any other form of damages.	/	X	
SSWS-225-05	Conformance to the specified type of welding.	/	X	
SSWS-225-06	Fasteners, anchor bolts, bolts/nuts & washers conforms to specified size, strength, etc.	/	X	
SSWS-225-07	Installed according to plans.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontractor	r used? If yes, name of company and owner:	_	Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b) =	
			Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Substation</u> ITEM: <u>Building</u>

LOCATION: ______ DATE OF VISIT: _/ /

Rate

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said and. Further, if the number of complying anote in		Score	Action
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		x factor	Monito
Item 223 Plumb	ing			
SSWS-223-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports.	/	=X	
SSWS-223-02	Conducted and passed the required leak test.	/	=X	
SSWS-223-03	Pipes not clogged.	/	=X	
SSWS-223-04	Free from any form of damages.	/	=X	
SSWS-223-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location.	/	X	
SSWS-223-06	Adhesive conform to specification.	/	=X	
SSWS-223-07	Water closet, lavatory conform to specification.	/	=X	
		/	=X	
		/	X	
		/	=X	
Item 224 Sanita	ary			
SSWS-224-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports.	/	X	
SSWS-224-02	Conducted and passed the required pressure/leak test.	/	=X	
SSWS-224-03	Pipes not clogged.	/	=X	
SSWS-224-04	Free from any form of damages.	/	=X	
SSWS-224-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location.	/	X	
SSWS-224-06	Adhesives conform to specifications.	/	=X	
		/	=X	
		/	X	
		/	X	
Vas subcontracto	r used? If yes, name of company and owner :		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
ntered by:	Date: / /		Rate = (a) / (b)	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation LOCATION: _____

ITEM: Building DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 226 Elect	rical Works			
SSWS-226-01	Pipes installed according to plans and laid out according to approved construction drawings.	/	X	-
SSWS-226-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed.	/	X	-
SSWS-226-03	Pipes properly bended.	/	X	-
SSWS-226-04	Allowable number of wires in a pipe properly observed.	/	X	-
SSWS-226-05	Splicing and connection provided with adequate rubber and pvc tapes.	/	=X	-
SSWS-226-06	Adequate length of wire provided for termination and splicing.	/	=X	-
SSWS-226-07	Wire color coding complied and observed.	/	X	-
SSWS-226-08	Wire insulation not damaged during pulling.	/	X	-
SSWS-226-09	Adequate number, correct size and gauge of pull boxes installed and properly covered.	/	X	-
SSWS-226-10	Boxes and enclosures provided according to intended purpose.	/	X	-
SSWS-226-11	Fittings and accessories provided and properly installed.	/	X	-
SSWS-226-12	Block-outs and sleeves provided and properly secured.	/	X	-
SSWS-226-13	Cable ties provided.	/	X	-
SSWS-226-14	Blank covers provided for outlets and switches that are not utilized.	/	X	-
SSWS-226-15	Use of tools and equipment properly observed.	/	X	-
SSWS-226-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages.	/	X	-
SSWS-226-17	Meager, clamp, phase sequence tests and load test conducted.	/	X	-
SSWS-226-18	Shop drawings, as-built plan maintained.	/	X	-
		/	X	-
		/	X	-
as subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Intered by:	Date: / /		Rate = (a) / (b)	
			= Rate	4

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: <u>Substation</u> LOCATION: _____

ITEM: <u>Building</u> DATE OF VISIT: <u>/</u>/_____

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
ltem 227 Air Co	onditioning System			
SSWS-227-01	Air-conditioning units, transfer fans, pipes, ducts, condensers are installed according to plans.	/	=X	
SSWS-227-02	Jointing of pipes and ducts conform to specified jointing system.	/	X	
SSWS-227-03	Pipes and ducts free from leaks.	/	=X	
SSWS-227-04	Pipes and ducts sufficiently braced/supported.	/	=X	
SSWS-227-05	Installed materials free from any form of damage.	/	X =	
SSWS-227-06	Conducted and passed the required tests.	/	X =	
		/	=X	
		/	=X	
		/	=X	
		/	X	
		/	=X	
Item 228 Ventil	ation System			
SSWS-228-01	Conformance to the design specifications / drawings.	/	=X	
SSWS-228-02	Casing free from dent.	/	=X	
SSWS-228-03	Conducted and passed the required tests.	/	=X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /		= Rate = (a) / (b)	
			= Rate	1

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: Equipment Foundations
VISIT	LOCATION:	_DATE OF VISIT: <u>/ /</u>

	INDICATORS			1
Sub-item Code	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less		Score x factor	Action / Monitor
	than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 300 Excava	ation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
SSWS-300-01	Conformance to the approved foundation plans for lines, grades, dimensions, elevations	/	=X	
SSWS-300-02	Conformance to the excavation support system (i.e. shoring, bracing, sheet piling)	/	=X	
SSWS-300-03	Adherence to proper construction methodology.	/	=X	
Minor				
SSWS-300-01	Conformance to the approved foundation plans for lines, grades, dimensions, elevations	/	=X	
SSWS-300-03	Adherence to proper construction methodology.	/	=X	
SSWS-300-04	Conformance to proper disposal of excavated materials.	/	=X	
		/	X	
Item 301 Fill and	d Backfill			
Major				
SSWS-301-01	Conformance of in-placed materials to plans and specifications.	/	X	
SSWS-301-02	Conformance to the required thickness of fill or backfill per layer	/	X	
SSWS-301-03	Conformance to the required density or degree of compaction	/	X	
Minor				
SSWS-301-04	Conformance to ground level restoration.	/	X	
		/	=X	
Item 302 Ancho	r Bolt Setting			
Major				
SSWS-302-01	Conformance to the anchor bolt setting dimensions.	/	X	
SSWS-302-02	Precise setting of template.	/	X	
Minor				
SSWS-302-03	Anchor bolts and templates fix with supporter.	/	=X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: <u>/ /</u>		Rate = (a) / (b) =	
	2G - 23		Rate	1

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: Equipment Foundations
VISIT	LOCATION:	_ DATE OF VISIT: _/_/_

Ű				1
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 303 Cable	Trench Cover and Supports			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
SSWS-303-01	Provision of block-outs for installation of metal works.	/	X	
SSWS-303-02	Metal works and materials installed in accordance to the details shown in the drawing (alignment, position).	/	X	
SSWS-303-03	Block-outs were grouted after installation of metal works.	/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Item 304 Grave	l I Surfacing		_	
Major				
SSWS-304-01	Conformance to required lines, grades and thickness.	/	X	
Minor				
SSWS-304-02	Compliance to the specified construction methodology.	/	X	
SSWS-304-03	No oversize/undersize of in-placed materials.	/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		 Total Score (a) =	CAR Total
		_	No. of Indicators (b) =	
Entered by:	Date: <u>/ /</u>		Rate = (a) / (b)	
			– Rate	1

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: Common Items of Work
VISIT	LOCATION/LOT:	_DATE OF VISIT: <u>/ /</u>

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monito
Item 400 Form	vorks			
Minor				
SSWS-400-01	Conformance to the required type of formworks in accordance with approved shop/working drawings.	/	X	
SSWS-400-02	Forms coated with mould oil as required.	/	X	
SSWS-400-03	Sufficient bracing / support.	/	X	
SSWS-400-04	No loose knots, splits, cracks, etc.	/	X	
SSWS-400-05	Provision of required concrete or steel spacer.	/	X	
SSWS-400-06	Conformance to specified tolerances for dimensions, locations, plumbness and alignment.	/	X	
SSWS-400-07	No use of dilapidated/salvage forms (use more than 3x)	/	X	
		/	X	
Item 401 Reinfe Stressed Conc	orcing Steel Bars (including tendons for Pre/Post- rete)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-401-01	Conformance of in-placed materials to plans and specifications.	/	X	
SSWS-401-02	Non-appearance of corrosion on steel reinforcement.	/	X	
Minor				
SSWS-401-02	Non-appearance of rust on steel reinforcement.	/	=X	
SSWS-401-03	Conformance to approved bar cutting schedule, proper spacing, anchorage and adequate reinforcements.	/	=X	
SSWS-401-04	No sign of oil, paint and other deleterious materials on reinforcements.	/	=X	
SSWS-401-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	=X	
SSWS-401-06	Conformance to proper bending of stirrups	/	X 	
		/	X	
		/	x	
	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
ntered by:	Date: / /		= Rate= (a) / (b)	
			= Rate	-

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: Common Items of Work
VISIT	LOCATION/LOT:	_DATE OF VISIT: <u>/ /</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action . Monito
Item 402 Conci	ete			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major I	Defects	
SSWS-402-01	No through cracks.	/	=X	
SSWS-402-02	No honeycomb (no exposed rebars/aggregates).	/	=X	
SSWS-402-03	No sagging or bulging.	/	X	
SSWS-402-04	Conformance to required quality of concrete mix	/	X	
SSWS-402-05	Conformance to the required concrete cover for rebars.	/	X	
SSWS-402-06	Conformance to the jointing requirement.	/	X	
SSWS-402-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	X	
Minor				
SSWS-402-01	No cracks.	/	=X	
SSWS-402-02	No honeycomb.	/	=X	
SSWS-402-03	No sagging or bulging.	/	X	
SSWS-402-05	Conformance to the required concrete cover for rebars.	/	X	
SSWS-402-06	Conformance to the jointing requirement.	/	X	
SSWS-402-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	X	
SSWS-402-08	Proper and adequate vibration.	/	=X	
SSWS-402-09	Conformance to finishing/plastering requirement.	/	X	
SSWS-402-10	No chipping off of concrete cover.	/	=X	
SSWS-402-11	Conformance to the batching, mixing, transporting and discharge time requirements.	/	=X	
SSWS-402-12	Proper curing.	/	X	
SSWS-402-13	Conformance to required dimensions, lines. grades/ elevation, location.	/	X	
		/	x	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /		= Rate= (a) / (b)	
			= Rate	1

PROJECT NO.: _____ ____VISIT

LOCATION: _____ DATE OF VISIT: _ / /

PROJECT TYPE: <u>Substation</u> ITEM: <u>S/S Equipment Installation</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 500 Gantri	ies, Steel Structures and Supports			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-500-01	Conformance with the approved Erection Drawings and installation methodologies.	/	=X	
SSWS-500-02	Templates are used for setting anchor bolt system.	/	X	
Minor				
SSWS-500-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
SSWS-500-04	Stitch bolts are used in connecting double angle members. members.	/	=X	
SSWS-500-05	Correct direction and bolt position of bolt insertion.	/	=X	
SSWS-500-06	Conformance with specified tolerances for plumbness and alignment.	/	=X	
SSWS-500-07	No damage/defective structural members.	/	=X	
		/	=X	
Item 501 Bus Co	onductors and Hardwares			
Major				
SSWS-501-01	Installed according to approved plans and specifications.	/	=X	-
SSWS-501-02	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-501-03	Conductors are free from copper dust and particles.	/	=X	
SSWS-501-04	No damage/defective members.	/	=X	
SSWS-501-05	Connectors/Terminal pad are equipped with approved type of bolts, nuts, flat washer and bevelled washers.	/	=X	
SSWS-501-06	Terminal connectors are free from burrs, edges, fillet, damage and cracks.	/	=X	
SSWS-501-07	Approved as-built drawings maintained.	/	=X	
		/	=X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Intered by:	Date: / /		Rate = (a) / (b)	
			=	

PROJECT NO.: _____ ____VISIT

LOCATION: _____ DATE OF VISIT: _/ /

PROJECT TYPE: <u>Substation</u> ITEM: <u>S/S Equipment Installation</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 502 Grour	nding System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-502-01	Installed according to approved plans and specifications.	/	X	
SSWS-502-02	Grounding connections are properly welded through exothermic process.	/	x	
SSWS-502-03	Overhead ground wire are properly strung according to specified tension and sag.	/	X	
SSWS-502-04	Conducted and passed all required ground resistance tests.	/	=X	
Minor				
SSWS-502-03	Overhead ground wire are properly strung according to specified tension and sag.	/	=X	
SSWS-502-04	Conducted and passed all required ground resistance tests.	/	=X	
SSWS-502-05	Ground rods installed according to approved plans.	/	=X	
SSWS-502-06	Grounding trenches are excavated according to specified depth and width.	/	X	
SSWS-502-07	Provision of bedding materials for ground wire.	/	=X	
SSWS-502-08	Ground leads are properly supported by clamps at specified intervals.	/	X	
SSWS-502-09	Shield wires and accessories are protected by specified corrosion inhibitor.	/	=X	
SSWS-502-10	Steel structures with insulators or apparatus are properly connected to the ground mat.	/	X	
SSWS-502-11	Structures with more than one leg are properly connected to the ground mat with risers at minimum of 2 different points.	/	x	
SSWS-502-12	Substation equipment are properly grounded to two different points of the ground mat.	/	X	
SSWS-502-13	Lighting poles and other metal structures are properly connected to ground mat.	/	X	
SSWS-502-14	Cable trays, ladder, fence and gates are properly connected to ground mat.	/	X	
SSWS-502-15	Approved as-built drawings maintained.	/	X	
		/	X	
Vas subcontracto	r used? If yes, name of company and owner :		Total Score (a)	CAR Total
	· ·		No. of Indicators (b)	
Intered by:	Date: / /	_	Rate = (a) / (b)	
			– Rate	

 PROJECT ID/NO.:
 PROJECT TYPE: Substation
 ITEM: S/S Equipment Installation

 VISIT
 LOCATION:
 DATE OF VISIT:
 /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monito
Item 503 Powe	r Transformer			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-503-01	Installed according to approved plans and specifications.	/	=X	
SSWS-503-02	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-503-03	Properly aligned and leveled.	/	=X	
SSWS-503-04	Appurtenants are clean and free from damages.	/	=X	
SSWS-503-05	Tanks, conservator, radiators coolers and fittings are free from oil leaks.	/	X	
SSWS-503-06	Approved as-built drawings maintained.	/	=X	
		/	=X	
		/	X	
		/	=X	
Item 504 Powe	r Circuit Breaker			
Major				
SSWS-504-01	Installed according to approved plans and specifications.	/	=X	
SSWS-504-02	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-504-03	Mounting bases are properly aligned and leveled.	/	=X	
SSWS-504-04	Installed materials are free from damages.	/	=X	
SSWS-504-05	Approved as-built drawings maintained.	/	=X	
		/	=X	
		/	X	1
		/	X	
	r used? If yes, name of company and owner: &&		Total Score (a) = No. of Indicators (b)	CAR Total
intered by:	Date: / /		= Rate = (a) / (b) =	
			Rate	1

____VISIT

LOCATION: ______ DATE OF VISIT: _/ /_

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Substation</u> ITEM: <u>S/S Equipment Installation</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 505 Disco	nnect / Earthing Switch			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-505-01	Installed according to approved plans and specifications.	/	=X	
SSWS-505-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-505-03	Moving parts are properly aligned and leveled.	/	=X	
SSWS-505-04	Installed materials are free from damages.	/	X	
SSWS-505-05	Approved as-built drawings maintained.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
Item 506 Curre	nt Transformer / 507 Voltage Transformer		=	
Major	-			
SSWS-5001	Installed according to approved plans and specifications.	/	X	
SSWS-5002	Conducted and passed the required tests.	/	X	
Minor			-	
SSWS-5003	Installed materials are free from damages.	/	=X	
SSWS-5004	Approved as-built drawings maintained.	/	X	
		/	X	_
		/	X	
		/	X	
		/	=	
		/	= X	
	r used? If yes, name of company and owner:		=X = Total Score (a) = No. of Indicators (b) =	CAR Total
		/	= Total Score (a) =	CAR Total

VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation LOCATION: _____

ITEM: S/S Equipment Installation DATE OF VISIT: / /

Rate

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 508 Surge	Arrester			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-508-01	Installed according to approved plans and specifications.	/	X	
SSWS-508-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-508-03	Installed materials are free from damage.	/	X	
SSWS-508-04	Discharge counter and cable are properly braced and connected to ground mat.	/	X	
SSWS-508-05	Approved as-built drawings maintained.	/	X	
Item 509 Metal	Clad Switchgear			
Major				
SSWS-509-01	Installed according to approved plans and specifications.	/	=X	
SSWS-509-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-509-03	Stationary and moving assembly are properly aligned.	/	X	
SSWS-509-04	Installed materials are free from damage.	/	X	
SSWS-509-05	Approved as-built drawings maintained.	/	X	
Item 510 Statio	n Service Transformer			
Major				
SSWS-510-01	Installed according to approved plans and specifications.	/	=X	
SSWS-510-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-510-03	Provision of proper ventilaton from the base of the finish ground level for cooling purposes.	/	=X	
SSWS-510-04	Properly aligned and leveled.	/	X	
SSWS-510-05	Radiators and coolers are free from oil leaks.	/	X	
SSWS-510-06	Approved as-built drawings maintained.	/	X	
	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
	Date:/ /		= Rate = (a) / (b)	

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: S/S Equipment Installation
VISIT	LOCATION:	_DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 511 AC ar	d DC Station Auxillary Switchboard			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-511-01	Installed according to approved plans and specifications.	/	=X	
SSWS-511-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-511-03	Terminal lugs are grip insulated.	/	=X	
SSWS-511-04	Conformance to proper wirings, markings, tags and ties.	/	=X	
SSWS-511-05	Installed materials are free from damage.	/	X	
SSWS-511-06	Approved as-built drawings maintained.	/	X	
		/	X	
		/	X	
Item 512 Batter	y Charger			
Major				
SSWS-512-01	Installed according to approved plans and specifications.	/	=X	
SSWS-512-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-512-03	Conformance of wiring to required bending radius.	/	X	
SSWS-512-04	Cable clamps are uniformly spaced.	/	=X	
SSWS-512-05	Terminal lugs are grip insulated.	/	=X	
SSWS-512-06	Installed materials are free from damage.	/	X	
SSWS-512-07	Approved as-built drawings maintained.	/	X	
		/	=X	
		/	=X	1
/as subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
ntered by:	Date: / /		Rate = (a) / (b) =	
			– Rate	-

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: S/S Equipment Installation
VISIT	LOCATION:	_DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 513 Stora				
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Maior	Defects	
SSWS-513-01	Installed according to approved plans and specifications.	/	X	
		/	= X	
SSWS-513-02	Conducted and passed the required tests.	/	=^	
Minor				
SSWS-513-03	Battery racks are free from rust/corrosion.	/	X	
SSWS-513-04	Current carrying parts are properly insulated.	/	=X	
SSWS-513-05	No damage/defect in any material.	/	X	
SSWS-513-06	Battery rooms are properly ventilated with exhaust fan and sealed to prevent entry of dust.	/	X	
SSWS-513-07	Approved as-built drawings maintained.	/	X	
		/	X	
Item 514 Power	r / Control / Instrumentation Cables			
Major				
SSWS-514-01	Installed according to approved cable schedule.	/	=X	
SSWS-514-02	Conducted and passed required tests.	/	=X	
Minor				
SSWS-514-03	Cables are properly installed and placed in conduits, cable trays and trenches.	/	X	
SSWS-514-04	Cables not yet terminated are properly sealed to prevent moisture into the cable.	/	=X	
SSWS-514-05	Conformance to proper wirings, markings, tags and ties.	/	=X	
SSWS-514-06	No splicing along trays and trench.	/	=X	
SSWS-514-07	Termination of conductors to terminal blocks are provided with terminal lugs, insulated and gripped.	/	=x	
SSWS-514-08	Approved as-built drawings maintained.	/	X	
		/	X	
/00 000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			– Total Score (a)	CAR Total
	r used? If yes, name of company and owner: &		No. of Indicators (b)	
ntered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: S/S Equipment Installation
VISIT	LOCATION:	_DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 515 Uninte	erruptible Power Supply			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definitio	n of Major	Defects	
SSWS-515-01	Installed according to approved plans and specifications.	/	=X	
SSWS-515-02	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-515-03	Seismic anchor and clamping device are fixed to foundation.	/	=X	
SSWS-515-04	Termination of conductors to terminal blocks are provided with terminal lugs, insulated and gripped.	/	=X	
SSWS-514-05	Conformance to proper wirings, markings, tags and ties.	/	=X	
SSWS-515-06	No splicing of wires.	/	=X	
SSWS-515-07	Maximum of two lines are connected to one terminal block point.	/	=X	
SSWS-515-08	Approved as-built drawings maintained.	/	=X	
		/	X	
		/	X	
as subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
			No. of Indicators (b)	
Intered by:	Date:/ /_		Rate = (a) / (b)	
			Rate	

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PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: S/S Equipment Installation
VISIT	LOCATION:	_DATE OF VISIT: <u>/ /</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action , Monitor
Item 516 Insula	ting Oil Treatment Plant			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-516-01	Installed according to approved plans and specifications.	/	=X	
SSWS-516-02	Conducted and passed required tests.	/	=X	
Minor				
SSWS-516-03	Installed plant and accessories are free from any form of damage.	/	=X	
		/	=X	
		/	X	
		/	X	
		/	X =	
Item 517 Emerg	gency Diesel Generator Set			
Major				
SSWS-516-01	Installed according to approved plans and specifications.	/	=X	
SSWS-517-02	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-517-03	Exhaust system is properly fastened, supported with expansion materials, and insulated.	/	=X	
SSWS-517-04	Fuel tanks and piping system are leak-free.	/	=X	
SSWS-517-05	Generator set and accessories are free from damages.	/	=X	
		/	=X	
		/	=X	
		/	X	
		/	X	1
loo oubcostra da	I used? If yes name of company and company		– Total Score (a)	CAR Total
	r used? If yes, name of company and owner:		No. of Indicators (b)	
intered by:	Date:/_/_		Rate = (a) / (b) =	
			Rate	-

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: <u>S/S Equip</u>
VISIT	LOCATION:	_DATE OF VISIT:

EM: <u>S/S Equipment Installation</u> ATE OF VISIT: / /

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of	_	Score	Action /
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monito
ltem 518 Lighti	ng System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major D	Defects	
SSWS-518-01	Installed according to approved plans and specifications.	/	X	
SSWS-518-02	Conducted and passed required tests.	/	=x	
Minor				
SSWS-518-03	Pull boxes are properly installed and covered.	/	X	
SSWS-518-04	Outlet boxes are firmly anchored in-placed with fixture supports.	/	=X	
SSWS-518-05	No exposed pulling boxes in areas normally occupied by working personnel.	/	=X	
SSWS-518-06	Lighting panels are surface/recess-mounted with proper identifications/labeling on all branch circuits.	/	=X	
SSWS-518-07	Conformance to allowable number of wires in conduit pipe.	/	=X	
SSWS-518-08	Adequate rubber and PVC tapes are provided in splicing and connections.	/	=X	
SSWS-518-09	Boxes and enclosures are provided according to intended purpose.	/	=X	
SSWS-518-10	Wire insulation not damaged during pulling.	/	=X	
SSWS-518-11	Provision of covers for blank utility boxes.	/	X	
SSWS-518-12	Conformance to proper wirings, markings, tags and ties.	/	=X	
SSWS-518-13	Lighting fixtures are free of warps, dents, and other damages.	/	=X	
SSWS-518-14	Hanger cable supports, channels, frames and brackets are provided in the lighting fixtures (as necessary).	/	=X	
SSWS-518-15	Flood lights, perimeter lighting, structure mounted luminous are installed with appropriate supports and brackets.	/	=X	
SSWS-518-16	Outdoor lighting fixtures are provided with sealing gaskets.	/	=X	
SSWS-518-17	Approved as-built drawings maintained.	/	=X	
		/	X	
		/	=X	
/as subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
			No. of Indicators (b)	
ntered by:	Date: / /	_	Rate = (a) / (b) =	
			– Rate	1

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: S/S Equipment Installation
VISIT	LOCATION:	_ DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is	Results	Score x factor	Action Monitor
	less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
Item 519 Condi	uits and Cable Tray System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-519-01	Installed according to approved plans and specifications.	/	=X	
SSWS-519-02	Conducted and passed the required tests.	/	X	
Minor				
SSWS-519-03	Conduit ends are reamed and smoothened before jointing.	/	=X	
SSWS-519-04	Provision of plug and fillers.	/	=X	
SSWS-519-05	Provision of coupling and bends.	/	=X	
SSWS-519-06	Provision of spacers, inserts and ties for conduits.	/	=X	
SSWS-519-07	Provision of stow enamel coating inside conduits.	/	=X	
SSWS-519-08	Provision of rigid metal expansion joints where required.	/	=X	
SSWS-519-09	Cable trays, accessories and fittings are smooth, free from defects and sharp edges.	/	=X	
SSWS-519-10	Trays are properly installed and supported as per plan.	/	=X	
SSWS-519-11	Provision of adequate support on vertical cable runs.	/	=X	
SSWS-519-12	Multi core cables are clamped to the racks.	/	=X	
SSWS-519-13	Conformance to required leveling and alignment of all installed materials	/	=X	
SSWS-519-14	Conformance to grounding connections.	/	=X	
SSWS-519-15	Cables are adequately supported by racks and clamps, if it is not feasible to support cables by means of tray.	/	=X	
SSWS-519-16	Approved as-built drawings maintained.	/	=X	
		/	=X	
		/	=X	
		/	X	
	or used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
intered by:	Date: <u>/ /</u>		Rate = (a) / (b) =	
			Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation LOCATION: _____

ITEM: Telecom System DATE OF VISIT: / /

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monito
Item 600 Micro	wave Equipment			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-600-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-600-02	Cable trays, racks and conduit system installed according to approved plans and specifications.	/	=X	
SSWS-600-03	Link terminal; i.e transmitters and receiver installed at specified room conditions and temperature.	/	=X	
SSWS-600-04	Antenna rigidly mounted in accordance with approved plans and specifications.	/	=X	
SSWS-600-05	Conformance to specified antenna directions.	/	=X	
SSWS-600-06	Grounding rods and arresters installed and connected according to approved plans and specifications.	/	=X	
SSWS-600-07	Conducted and passed the required tests.	/	=X	
SSWS-600-08	Equipment is free from any damage.	/	=X	
Minor				
SSWS-600-02	Cable trays, racks and conduit system installed according to approved plans and specifications.	/	=X	
SSWS-600-08	Equipment is free from any damage.	/	X	
SSWS-600-09	Antenna coarse and fine adjustments provided.	/	X	
SSWS-600-10	Complied with the minimum bending radius for wave guide.	/	X	
SSWS-600-11	Order wire circuit contained in rack mounted not integrated within the other units of the radio equipment rack conformed with specified height.	/	X	
SSWS-600-12	Wave guide installed complete with mounting hardwares wall fed through, grounding straps, connectors and pressurizing equipment.	/	=X	
		/	=X	
/as subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Intered by:	Date: / /		Rate = (a) / (b)	
			– Rate	1

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: <u>Telecom System</u>
VISIT	LOCATION:	_ DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
ltem 601 Fiber	Optic Terminal Equipment			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-601-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-601-02	Free from any form of damage.	/	=X	
SSWS-601-03	Clean from inside and outside.	/	=X	
SSWS-601-04	Proper identifications/markings are provided on the cable.	/	=X	
SSWS-601-05	Fiber optic cables are terminated in connectors accessible through jumper cables (pigtails).	/	=X	
SSWS-601-06	Ends of the fiber optic cable are provided with caps to prevent moisture ingress into the cables.	/	=X	
SSWS-601-07	Each end of the cables are securely fastened to the reel to prevent the cable from becoming loose during placing operations.	/	=X	
SSWS-601-08	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-601-02	Free from any form of damage.	/	=X	
SSWS-601-03	Clean from inside and outside.	/	=X	
SSWS-601-07	Each end of the cables are securely fastened to the reel to prevent the cable from becoming loose during placing operations.	/	=X	
Item 602 Powe	r Line Carrier Equipment			
Major				
SSWS-602-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-602-02	Apurtenants of PLC equipment are free from damages (i.e, PLC cubicles, transmitter/reciever sets, line tuners, line traps, protection signalling equipment, etc.)	/	X	
SSWS-602-03	Conformance to the ambient temperature in which the cubicles are located.	/	=X	
SSWS-602-04	Conducted and passed the required tests.	/	X	
Minor				
SSWS-602-02	Apurtenants of PLC equipment are free from damages (i.e, PLC cubicles, transmitter/reciever sets, line tuners, line traps, protection signalling equipment, etc.)	/	=x	
SSWS-602-05	Co-axial cables are properly laid with cable support and cable ties.	/	X	
	r used? If yes, name of company and owner:		Total Score (a) No. of Indicators (b)	CAR Total
	Date: / /		Rate = (a) / (b)	
			= Rate =	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: <u>Substation</u> LOCATION: _____

ITEM: Telecom System DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is	Results	Score x factor	Action Monitor
	less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).			
ltem 603 Telepl	none Equipment			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-603-01	Completeness of installation according to approved plans and specifications.	/	X	
SSWS-603-02	Circuit boards and components are sealed / treated to provide protection against moisture.	/	=X	
SSWS-603-03	Main Distribution Panel/frame is equipped with earthing accessories for connection to station ground mat.	/	=X	
SSWS-603-04	Conducted and passed the required tests.	/	X	
Minor				
SSWS-603-02	Circuit boards and components are sealed / treated to provide protection against moisture.	/	=X	
SSWS-603-05	Lines are plugged-in type to the Distribution Frame. No soldering.	/	X	
		/	=X	
		/	=X	
Item 604 UHF /	VHF Radio Equipment			
Major				
SSWS-604-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-604-02	UHF / VHF Radio Equipment are free from damages (i.e, base station, repeater sets, portable sets, mobile radio sets, co-axial cables, antenna system, etc.).	/	=X	
SSWS-604-03	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-604-02	UHF / VHF Radio Equipment are free from damages (i.e, base station, repeater sets, portable sets, mobile radio sets, co-axial cables, antenna system, etc.).	/	X	
SSWS-604-04	Co-axial cables are laid with mounting hardwares or roof fed through to avoid sag. Provisions for grounding as required.	/	x	
SSWS-604-05	Base antenna are installed / mounted rigidly on its support structure with lightning protection.	/	=X	
		/	X	
		/	X	
/as subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Tota
			No. of Indicators (b) =	
intered by:	Date:/ /_		Rate = (a) / (b)	
			Rate	

PROJECT NO.:	PROJECT TYPE: Substation	ITEM: <u>Telecom System</u>
VISIT	LOCATION:	DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest o the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for tha specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 605 Anten	na Tower			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definitio	n of Major	Defects	
SSWS-605-01	Conformance to foundation requirements (i.e, correct orientation, finished elevations, embedded items).	/	=X	
SSWS-605-02	Conformance to approved erection drawings.	/	=X	
SSWS-605-03	Tower parts and accessories are free from damages (i.e, structural steel works, anchor materials, bolts and nuts, washers, guy, etc.).	/	X	
SSWS-605-04	Connectors of tower members are secured by bolts and nuts and washers.	/	=X	
SSWS-605-05	Tower parts completely installed.	/	=X	
SSWS-605-06	Lightning rod completely installed as per plans and specifications.	/	=X	
Minor				
SSWS-605-03	Tower parts and accessories are free from damages (i.e, structural steel works, anchor materials, bolts and nuts, washers, guy, etc.).	/	x	
SSWS-605-04	Connectors of tower members are secured by bolts and nuts and washers.	/	=X	
SSWS-605-07	Provision of setting templates for setting anchor bolts or stub angles for each type of tower.	/	=X	
SSWS-605-08	No appearance of white rust on all galvanized members and accessories	/	=X	
SSWS-605-09	Bolts, nuts and washers conformed to the required number, sizes and strength.	/	=X	
SSWS-605-10	Galvanized bolts and nuts are assembled with finger fit pressure only and interchangeable without shakes.	/	=X	
SSWS-605-11	Conformance to bolt positions and insertion requirements.	/	=X	
SSWS-605-12	Bolts fastened with specified torque.	/	=X	
SSWS-605-13	Approved as-built drawings maintained.	/	=X	
		/	=X	
		/	=X	
	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b)	
			= Rate	-

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation LOCATION: _____

ITEM: Telecom System DATE OF VISIT: / /

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	x factor	Monito
	specific item of work is zero (0).			
	Optic Cable (Linking the Substation)			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major		
SSWS-606-01	Cable pulling in boxes conforms with plans and specifications.	/	X	
SSWS-606-02	Proper backfilling and compaction prior to cable pipe laying.	/	=X	
SSWS-606-03	Trench slopes conform to plans and specifcations.	/	=X	
SSWS-606-04	Conformance to laying/pulling operation procedure.	/	=X	
SSWS-606-05	Conducted and passed the required tests.	/	X	
Minor				
SSWS-606-01	Cable pulling in boxes conforms with plans and specifications.	/	X	
SSWS-606-02	Proper backfilling and compaction prior to cable pipe laying.	/	X	
SSWS-606-03	Trench slopes conform to plans and specifcations.	/	=X	
SSWS-606-06	Required markings are provided.	/	=X	
SSWS-606-07	Backfilling of trenches conform to plans and specifications.	/	=X	
SSWS-606-08	Equipment arrangement and accessories (i.e, pulling ropes, hooks, rollers, etc. for the pipe and cable pulling operations) conform to approved procedure	/	=X	
SSWS-606-09	Conformance to repair preparedness procedure.	/	=X	
SSWS-606-10	Approved as-built drawings maintained.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	1
las subcontracto	r used? If yes, name of company and owner :		– Total Score (a)	CAR Total
		_	No. of Indicators (b)	
intered by:	Date: / /		Rate = (a) / (b)	
			= Rate	4

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: <u>Substation</u> LOCATION: _____ ITEM: <u>Control System</u> DATE OF VISIT: / /

INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monito
processor Based Control System (MBSC)			
* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major Dei	fects	
Installation and arrangement conforms to approved plans and specifications.	/	=X	
Installed materials are free from damages.	/	=X	
Conducted and passed required tests (i.e., routine and quality conformance tests).	/	=X	
Installed materials are free from damages.	/	=X	
Power supplies system are properly arranged.	/	X	
Earthing terminal are provided for grounding connection.	/	X	
Cabling layout conforms to plan.	/	=X	
Provision of raceways for wiring connection of MBSC to various equipment.	/	X	
Approved as-built drawings maintained.	/	=X	
d Circuit Television System			
Installed according to approved plans complete with required furnitures.	/	X	
• • • • •	/	=X X =	
furnitures. Installation of foundation, pole, junction boxes, tamper switch, sun shade and screen wiper in accordance to	/ / /	=X	
furnitures. Installation of foundation, pole, junction boxes, tamper switch, sun shade and screen wiper in accordance to approved plans.	/ / /	=X =X	
furnitures. Installation of foundation, pole, junction boxes, tamper switch, sun shade and screen wiper in accordance to approved plans. Cabling layout conforms to plan.	/ / /	= = = = X	
furnitures. Installation of foundation, pole, junction boxes, tamper switch, sun shade and screen wiper in accordance to approved plans. Cabling layout conforms to plan.	/ / / /	= = = = X	
furnitures. Installation of foundation, pole, junction boxes, tamper switch, sun shade and screen wiper in accordance to approved plans. Cabling layout conforms to plan. Conducted and passed required tests.	/ / / /	= =X = =X =	
furnitures. Installation of foundation, pole, junction boxes, tamper switch, sun shade and screen wiper in accordance to approved plans. Cabling layout conforms to plan. Conducted and passed required tests. Provision for equipment grounding to ground mat. Wirings/video cable passed through approved and	/ / / / /	=X =X =X =X =X	
furnitures. Installation of foundation, pole, junction boxes, tamper switch, sun shade and screen wiper in accordance to approved plans. Cabling layout conforms to plan. Conducted and passed required tests. Provision for equipment grounding to ground mat. Wirings/video cable passed through approved and properly supported raceways. Approved as-built drawings maintained. r used? If yes, name of company and owner:	/ / / / /	=	CAR Total
furnitures. Installation of foundation, pole, junction boxes, tamper switch, sun shade and screen wiper in accordance to approved plans. Cabling layout conforms to plan. Conducted and passed required tests. Provision for equipment grounding to ground mat. Wirings/video cable passed through approved and properly supported raceways. Approved as-built drawings maintained. r used? If yes, name of company and owner:		=	CAR Total
furnitures. Installation of foundation, pole, junction boxes, tamper switch, sun shade and screen wiper in accordance to approved plans. Cabling layout conforms to plan. Conducted and passed required tests. Provision for equipment grounding to ground mat. Wirings/video cable passed through approved and properly supported raceways. Approved as-built drawings maintained. r used? If yes, name of company and owner:		=	CAR Total
	 the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). processor Based Control System (MBSC) * Refer to Section 11.4a of the CPES Guidelines for definition o Installation and arrangement conforms to approved plans and specifications. Installed materials are free from damages. Conducted and passed required tests (i.e., routine and quality conformance tests). Installed materials are free from damages. Power supplies system are properly arranged. Earthing terminal are provided for grounding connection. Cabling layout conforms to plan. Provision of raceways for wiring connection of MBSC to various equipment. 	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Results * Refer to Section 11.4a of the CPES Guidelines for definition of Major Der Installation and arrangement conforms to approved plans and specifications. / Installed materials are free from damages. / Conducted and passed required tests (i.e., routine and quality conformance tests). / Installed materials are free from damages. / Installed materials are free from damages. / Conducted and passed required tests (i.e., routine and quality conformance tests). / Installed materials are free from damages. / Power supplies system are properly arranged. / Power supplies system are properly arranged. / Provision of raceways for wiring connection of MBSC to various equipment. / Approved as-built drawings maintained. /	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Results

PROJECT ID/NO.: _____ ____VISIT

PROJECT TYPE: <u>Substation</u> ITEM: <u>S/S Control</u> LOCATION: _____

DATE OF VISIT: / /

Rate

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 702 Acces	s Control and Alarm Monitoring System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major De	fects	
SSWS-702-01	Installed according to approved equipment arrangement and layout.	/	=X	
SSWS-702-02	Cable layout conforms to plans.	/	=X	
SSWS-702-03	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-702-02	Cable layout conforms to plans.	/	=X	
SSWS-702-04	Accessories for signal transmission are properly installed (i.e., mounting hardwares, connectors, etc.).	/	=X	
SSWS-702-05	Installation of field wirings in conduit is in accordance with applicable codes and standards.	/	=X	
SSWS-702-06	Conformance to required sizes of conduits and conductors in the drawings.	/	=X	
SSWS-702-07	Provision for grounding connection to ground mat.	/	=X	
SSWS-702-08	Approved as-built drawings maintained.	/	=X	
		/	=X	
		/	=X X	
		/	=	
	r used? If yes, name of company and owner:	_	Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /		= Rate = (a) / (b)	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation LOCATION: _____

ITEM: Protection System DATE OF VISIT: / /

Rate

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action / Monitor
Item 800 Line P	rotection System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major I	Defects	
SSWS-800-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-800-02	Installed materials are free from any form of damage.	/	X	
SSWS-800-03	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-800-02	Installed materials are free from any form of damage.	/	X	
SSWS-800-04	Relay panels are complete with grounding connections.	/	=X	
SSWS-800-05	Conformance of control and power cable entrance openings to plans and specs.	/	=X	
SSWS-800-06	Approved as-built drawings maintained.	/	=X	
		/	X	
Item 801 Substa	ation Protection			
Major				
SSWS-801-01	Completeness of installation according to approved plans and specifications.	/	=X	
SSWS-801-02	Conformance of control and power cable entrance openings to plans and specs.	/	=X	
SSWS-801-03	Cables entering the relay cubicle are properly installed and placed.	/	=X	
SSWS-801-04	Grounding terminal pads are provided for connection to ground mat.	/	=X	
SSWS-801-05	Conducted and passed the required tests.	/	X	
SSWS-801-06	Installed materials are free from any form of damage.	/	=X	
Minor				
SSWS-801-06	Installed materials are free from any form of damage.	/	X	
SSWS-801-07	Wirings are properly identified with markings.	/	=X	
SSWS-801-08	Cable rack hooks and supports are provided.	/	=X	
SSWS-801-09	Approved as-built drawings maintained.	/	X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Q Date:/_/_		= Rate = (a) / (b)	

 PROJECT ID/NO.:
 PROJECT TYPE: Substation
 ITEM: Protection System

 ____VISIT
 LOCATION:
 DATE OF VISIT:
 /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monito
Item 802 Netwo	ork Disturbance Monitoring System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-802-01	Completeness of installation according to approved plans and specifications.	/	X	
SSWS-802-02	Conducted and passed the required tests.	/	X	
SSWS-802-03	Installed materials are free from any form of damage.	/	=X	
Minor				
SSWS-802-03	Installed materials are free from any form of damage.	/	=X	
SSWS-802-04	Approved as-built drawings maintained.	/	X	
		/	X	
		/	X	
Item 803 Prote	ction Signalling Equipment			
Major				
SSWS-803-01	Completeness of installation according to approved plans and specifications.	/	X	
SSWS-803-02	Parts are free from damages.	/	X	
SSWS-803-03	Conducted and passed functional and other required tests.	/	X	
Minor				
SSWS-803-02	Parts are free from damages.	/	X	
SSWS-803-04	Provision of terminal pad for grounding connections.	/	X	
SSWS-803-05	Conformance to proper arrangements of terminal blocks inside the panel.	/	X	
SSWS-803-06	Approved as-built drawings maintained.	/	X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
intered by:	Date: / /		= Rate = (a) / (b) =	
			Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation ITEM: Fire Protection System LOCATION: _____ DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is	Results	Score x factor	Action Monitor
Code	less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	rtoouno		WOTILO
Item 900 Fire P	umping System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major	Defects	
SSWS-900-01	Installed pumps, accessories and appurtenances conformed to the required capacity and approved plans and specifications.	/	X	
SSWS-900-02	Piping connections sufficiently braced/supported and free from leaks.	/	X	
SSWS-900-03	Installed system free from any form of damage.	/	=X	
SSWS-900-04	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-900-02	Piping connections sufficiently braced/supported and free from leaks.	/	=X	
SSWS-900-03	Installed system free from any form of damage.	/	=X	
SSWS-900-05	Conformance to foundation, anchorage, housing/casing requirements.	/	=X	
SSWS-900-06	Conformance to pipings and control panel technical specifications.	/	=X	
SSWS-900-07	Conformance to alignment, balancing and vibration limitations.	/	=X	
SSWS-900-08	Approved as-built drawings maintained.	/	X	
	rotection Piping System			
Major				
SSWS-901-01	Installed pipes conform to plans, e.g. slope, alignment, location, bracings, supports.	/	=X	
SSWS-901-02	Pipes not clogged.	/	=X	
SSWS-901-03	Installed materials are free from any form of damage.	/	=X	
SSWS-901-04	Conducted and passed the required tests.	/	=X	
Minor				
SSWS-901-03	Installed materials are free from any form of damage.	/	=X	
SSWS-901-05	Installed fixtures and accessories conform to plans, e.g. height, alignment, location.	/	=X	
SSWS-901-06	Approved as-built drawings maintained.	/	X	
	or used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Q Date: / /		= Rate = (a) / (b)	
	Date/ /_		=	4
			Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Substation LOCATION: _____

ITEM: Fire Protection System DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
	oor Hydrant / 903 Hydrant for Transformer Area / 904 xtinguisher / 905 Portable Foam Equipment with Foam			
SSWS-9001	Conformance to the design specifications, drawings and applicable codes.	/	X	
SSWS-9002	Conducted and passed the required tests.	/	X	
		/	X	
		/	X	
		/	X	
	former Deluge Water Sprinkler System			
Major				
SSWS-906-01	Completeness of installation according to approved plans and specifications.	/	X	
SSWS-906-02	Conducted and passed the required tests.	/	X	
SSWS-906-03	Installed materials are free from any form of damage.	/	=X	
Minor				
SSWS-906-03	Installed materials are free from any form of damage.	/	X	
SSWS-906-04	Installed complete with appurtenances and its control, e.g. fixed piping and supports, spray nozzles, deluge valve system, detection and signaling equipment.	/	X	
SSWS-906-05	Provision of strainers in the supply lines of fixed water pipe spray system.	/	X	
SSWS-906-06	Detection equipment requiring weather protection are provided with canopy, hood or other suitable features.	/	X	
SSWS-906-07	System pipings are adequately supported.	/	X	
SSWS-906-08	Approved as-built drawings maintained.	/	X	
		/	X	
		/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.:	PROJECT TYPE: Substation	ITEM: Fire Protection System
VISIT	LOCATION:	_DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monito
	Gas Flooding Fire Suppression System (For Control oom, and Auxillary Room)			
Major	ooni, and Auxiliary Rooni)			
SSWS-907-01	Conformance to the design specifications, drawings and applicable codes.	/	X	
SSWS-907-02	Conducted and passed the required tests.	/	X	
		/	X	
		/	X	
Item 908 Fire D	etection and Alarm System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major I	Defects	
SSWS-908-01	Installed according to approved plans and specifications.	/	X	
SSWS-908-02	Wirings are in accordance with the requirements of the applicable codes.	/	x	
SSWS-908-03	No T-wiring or pigtail connections.	/	X	
SSWS-908-04	Conducted and passed the required tests.	/	X	
SSWS-908-05	Installed materials are free from any form of damage.	/	=X	
Minor				
SSWS-908-05	Installed materials are free from any form of damage.	/	=X	
SSWS-908-06	Wirings are color coded in conduit or electrical metallic tubing.	/	X	
SSWS-908-07	Circuit conductors are identified within each enclosure where a tap, splice or termination is made.	/	X	
SSWS-908-08	Markers properly in-placed.	/	X	
SSWS-908-09	Control circuit terminations are properly identified.	/	X	
SSWS-908-10	Terminals requiring grounding connectors are properly connected to grounding system.	/	X	
SSWS-908-11	Approved as-built drawings maintained.	/	X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
ntered by:	Date: / /		Rate = (a) / (b)	

Rate

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT ITEM: <u>Site Development</u>

____VISIT

LOCATION: _____

DATE OF VISIT: / /

				-
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 100 Bour	ndary Establishment			
DPWS-100-01	Boundary of site/area for development accurately established.	/	=X	
101 Clearing a	and Grubbing			
DPWS-10101	Proper removal of undisputed stumps roots and non- perishable solid objects/structures, vegetation, debris, trees and other obstruction.	/	X	
DPWS-101-02	Conformance to proper disposal.	/	X	
102 Removal	of Structure and Obstruction			
DPWS-102-01	Proper removal of undisputed stumps roots and non- perishable solid objects/structures, vegetation, debris, trees and other obstruction.	/	x	
DPWS-102-02	Conformance to proper disposal.	/	X	
Item 103 Grad	ing Excavation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects	5	
DPWS-103-01	Adherence to proper construction methodology.	/	X	
DPWS-103-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/	x	
Minor				
DPWS-103-03	Conformance to proper disposal.	/	X	
104 Structure	Excavation			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects	;	
DPWS-104-01	Adherence to proper construction methodology.			
DPWS-104-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/	X	
Minor				
DPWS-104-02	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	X =	
DPWS-104-03	Conformance to proper disposal.	/	X	
	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: <u>/ /</u>	_	= Rate = (a) / (b) = Rate	
				J

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT ITEM: <u>Site Development</u> LOCATION: _____

DATE OF VISIT: / /

Sub-item 'Note: Spots with a single major defect shall forfail att points for the rest of the indicators in the said spot. Termer, if the number of comprising spots is less that fitty rest indicators in the said spot. Termer, if the number of spots, the rating for that specific item of work is zero (0). Score Image:	Letter i Burnig (Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS			
Major* * Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects DPWS-105-01 Adherence to proper construction methodology (if no longer correctible, e.g., layering, Item 106 not undertaken). /		*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is	Results		Action Monito
DPWS-105-01 Adherence to proper construction methodology (if no longer /	Item 105 Emba	ankment			
DPWS-105-01 correctible, e.g., layering, Item 106 not undertaken). / = DPWS-105-02 correctible, e.g., with in-placed structure). / = Adherence to compaction procedure and the required equipment (if no longer correctible, e.g., done in layers but do not meet required / = x DPWS-105-02 Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible) / = DPWS-105-02 Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible) / = DPWS-105-02 Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible) / = DPWS-105-03 Adherence to compaction procedure and the required equipment (correctible). / = 106 Subgrade Preparation - = Major* * Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects - _ DPWS-106-01 Adherence to proper construction methodology (if no longer correctible, e.g., done in layers but do not meet required equipment (if / and the proved/specified tolerances for lines, grades, i approved/specified tolerances for lines, grades, i and the required equipment (Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Majo	or Defects		
DPWS-105-02 cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	DPWS-105-01		/		
DPWS-105-03 no longer correctible, e.g., done in layers but do not meet required /	DPWS-105-02	cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	/		
Minor Adherence to proper construction methodology. /	DPWS-105-03	no longer correctible, e.g., done in layers but do not meet required	/	× =	
DPWS-105-01 Adherence to proper construction methodology. /	Minor				
DPWS-105-02 cross-section, elevation, & dimensions. (correctible) / = DPWS-105-03 Adherence to compaction procedure and the required equipment(correctible). / = 106 Subgrade Preparation / =	DPWS-105-01	Adherence to proper construction methodology.	/		
DPWS-105-03 equipment(correctible). / = 106 Subgrade Preparation	DPWS-105-02		/	X	
Major* * Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects DPWS-106-01 Adherence to proper construction methodology (if no longer / correctible, e.g., layering, Item 105 not undertaken). X	DPWS-105-03		/		
DPWS-106-01 Adherence to proper construction methodology (if no longer correctible, e.g., layering, Item 105 not undertaken). /x DPWS-106-02 Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure). /x DPWS-106-02 Adherence to compaction procedure and the required equipment (if no longer correctible, e.g., done in layers but do not meet required compaction and succeeding layer was laid). /x DPWS-106-03 Adherence to proper construction methodology.	106 Subgrade	Preparation			
DFWS-100-01 correctible, e.g., layering, Item 105 not undertaken). / = DPWS-106-02 Conformance with approved/specified tolerances for lines, grades, e.g., with in-placed structure). /	Major*		or Defects		
DPWS-106-02 cross-section, elevation, & dimensions. (if no longer correctible, e.g., with in-placed structure).	DPWS-106-01	correctible, e.g., layering, Item 105 not undertaken).	/	X	
DPWS-106-03 no longer correctible, e.g., done in layers but do not meet required compaction and succeeding layer was laid).	DPWS-106-02	cross-section, elevation, & dimensions. (if no longer correctible,	/	x	
DPWS-106-01 Adherence to proper construction methodology.	DPWS-106-03	no longer correctible, e.g., done in layers but do not meet required			
DPWS-106-02 Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible) /	Minor				
DPWS-106-02 cross-section, elevation, & dimensions. (correctible) / = DPWS-106-03 Adherence to compaction procedure and the required equipment(correctible). / X	DPWS-106-01	Adherence to proper construction methodology.			
DPWS-106-03 Adherence to compaction procedure and the required / =	DPWS-106-02		/		
/ = Vas subcontractor used? If yes, name of company and owner: Total Score (a) =	DPWS-106-03	Adherence to compaction procedure and the required	/	X	
Was subcontractor used? If yes, name of company and owner: = & No. of Indicators (b) Entered by: Date: / / Rate = (a) / (b) =			/	X	
=				=	CAR Tota b)
– Rate	Entered by:	Date: / /		= Rate = (a) / (b)	
				– Rate	

 PROJECT ID/NO.:
 PROJECT TYPE: DIESEL POWER PLANT
 ITEM:
 Site Development

 _____VISIT
 LOCATION:
 DATE OF VISIT:
 /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monito
Item 107 Grad	ling Fill			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Majo	or Defects		
DPWS-107-01	Conformance of in-placed materials to plans and specifications.	/	X	
DPWS-107-02	Conformance to the required density or degree of compaction.	/	X =	
Minor				
DPWS-107-03	Conformance to the proper placement and to the required thickness per layer of fill/backfill	/	X =	
DPWS-107-04	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	X	
DPWS-107-05	Adherence to compaction procedure and the required equipment(correctible).	/	X	
Item 108 Sele	ected Fill/ Engineered Fill			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Majo	or Defects		
DPWS-108-01	Conformance of in-placed materials to plans and specifications.	/	X	
DPWS-108-02	Conformance to the required density or degree of compaction.	/	X	
Minor				
DPWS-108-03	Adherence to proper construction methodology	/	X	
DPWS-108-04	Conformance with approved/specified tolerances for lines, grades, cross-section, elevation, & dimensions. (correctible)	/	X =	
DPWS-108-05	Adherence to compaction procedure and the required equipment(correctible).	/	X =	
		/	X	
		/	X	
Vas subcontracto	or used? If yes, name of company and owner:		Total Score (a) =	CAR Tota
	&		No. of Indicators (b)
Entered by:	Date: / /		= Rate = (a) / (b)	

Rate

PROJECT ID/NO.: PROJECT TYPE: DIESEL POWER PLANT _____VISIT LOCATION:

ITEM:Site Development

DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 109 Aggr	egate Sub-Base Course / Aggregate Base Course			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major De	efects	
DPWS-109-01	Conformance of in-placed materials according to plans and specifications.	/	X	
DPWS-109-02	Adherence to proper construction methodology. (if no longer correctible, e.g., layer)	/	X	
DPWS-109-03	Conformance w/ approved/specified lines, grades, cross- section, thickness, elevation as per plans and specifications.	/	=X	
DPWS-109-04	Conformance to the required compaction.	/	=X	
Minor				
DPWS-109-01	Conformance of in-placed materialsaccording to plans and specifications.	/	=X	
DPWS-109-02	Adherence to proper construction methodology. (correctible)	/	X	
DPWS-109-03	Conformance w/ approved/specified tolerances on lines, grades, cross-section, thickness, elevation, & plans. (correctible) dimensions	/	X	
DPWS-109-04	Conformance to the required compaction.	/	X	
DPWS-109-05	Sub-base/Base extended to shoulders.	/	X	
DPWS-109-06	Non-occurrence of subbase settlement/upheaval.	/	X	
DPWS-109-07	Provision of required stakes.	/	X	
		/	X	
		/	X	
			=	
		/	X	
		/	X	
		/	X	
	or used? If yes, name of company and owner: &&		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /	_	= Rate = (a) / (b) = Rate	
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PROJECT ID/NO.: ____ ____VISIT

PROJECT TYPE: DIESEL POWER PLANT LOCATION:

ITEM: Site Development /

Action /

Monitor

DATE OF VISIT: /

Score

Rate

_x factor

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS Sub-item *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Results Code

	work is zero (0).			
Item 110 Port	land Cement Concrete Pavement			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of Maj	or Defects		
DPWS-110-01	No longitudinal cracks.	/	X	
DPWS-110-02	Conformance to vibration requirement.	/	X	
DPWS-110-03	Conformance to quality of concrete mix.	/	=X	
DPWS-110-04	Conformance to requirements of construction joints (outside middle thirds).	/	X	
DPWS-110-05	No through cracks (all types of cracks).	/	X	
DPWS-110-06	No scaling (severe, needs Removal and Replacement).	/	X	
DPWS-110-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section. (>10% deficient)	/	X	
Minor				
DPWS-110-05	No cracks e.g. transverse, diagonal, temperature, corner, restraint.	/	X	
DPWS-110-06	No scaling.	/	X	
DPWS-110-07	Conformance to the approved/specified tolerances for thickness, width, length, slope and cross-section (<10% deficient).	/	X	
DPWS-110-08	No honeycomb.	/	X	
DPWS-110-09	No spalling.	/	X	
DPWS-110-10	No chipped-off edges.	/	X	
DPWS-110-11	Conformance to required size, location & spacing of tie bars and dowel bars as per specifications.	/		
DPWS-110-12	Conformance to proper curing procedures.	/	X	
DPWS-110-13	Utilization of templates prior to pouring.	/	X	
DPWS-110-14	Conformance to placing requirement which will not result to segregation of aggregates, cold joints, misalignment.	/	X	
DPWS-110-15	Conformance to required amount of asphalt sealant on weakened plane joints. (insufficient and excessive application)	/	X	
DPWS-110-16	Conformance to requirement of pavement blockings (include depths and widths of weakened plane joints)	/	X	
DPWS-110-17	No hardened/spilled concrete on pavement.	/	X	
DPWS-110-18	No pokemarks/tire marks/animal foot marks/skid marks, etc.	/	X	
DPWS-110-19	Conformance to proper finishing of concrete (brooming)	/	X	
DPWS-110-20	Conformance to formwork requirements (wooden, defective steel and not applied with oil/grease)	/	X	
Vas subcontracto	r(s) used? If yes, name of company(ies) and sub-item:		Total Score (a)	CAR Tota
	&		No. of Indicators (b)	

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PROJECT ID/NO.: _____ VISIT

PROJECT TYPE: **DIESEL POWER PLANT**LOCATION: _____

ITEM: Site Development DATE OF VISIT: / /

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Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 111 Pipe	Culvert and Storm Drains			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major D	Defects	
DPWS-111-01	Conformance to the required/approved tolerance for slope, alignment, elevation and dimensions.	/	=X	
Minor				
DPWS-111-02	No cracks, honeycombs, chipping of edges.	/	=X	
DPWS-111-03	Compliance to joint mortar mixing proportions.	/	=^	
DPWS-111-04	Sufficient collaring and flushing.	/	=X	
DPWS-111-05	Compliance to the required thickness, compaction & materials requirement of gravel bedding.	/	=X	
DPWS-111-06	Compliance to the required thickness & compaction of backfill.	/	=X	
DPWS-111-07	Conformance to trenching requirements.	/	=X	
DPWS-111-08	Free from debris, siltation, etc.	/	=X	
		/	=X	
Item 112 Manho	les, Inlets, and Catch Basins			
Major				
DPWS-112-01	Conformance to connection requirements between pipes & inlet wall.	/	=X	
DPWS-112-02	Conformance with plans and design specifications.	/	=X	
Minor				
DPWS-112-03	No damage on manhole, inlets & catch basins.	/		
DPWS-112-04	No cracks.	/	=X	
DPWS-112-05	No honeycomb.	/	=X	
DPWS-112-06	Free from debris, siltation, etc.	/	=X	
		/	=X	
Was subcontractor	(s) used? If yes, name of company(ies) and sub-item:		Total Score (a) No. of Indicators (b)	CAR Total
Entered by:	Date: / /	_	= Rate = (a) / (b) =	
			Rate =	

PROJECT ID/NO.: _____

PROJECT TYPE: **DIESEL POWER PLANT**LOCATION: _____

ITEM: Site Development
DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 113 Ripra	ap and Grouted Riprap			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
DPWS-113-01	No through cracks	/	X	
DPWS-113-02	Conformance to specifications (size, type, weight, etc. of boulders).	/	X	
DPWS-113-03	Sufficient grout/mortar.	/	X	
DPWS-113-04	Observance to proper placing of stones/boulders.	/	X	
DPWS-113-05	Conformance to the approved/required tolerance for slope and thickness.	/	X	
DPWS-113-06	Compliance to the specified compaction and preparation of bedding.	/	X	
DPWS-113-07	Compliance to design mix of mortar.	/	X	
DPWS-113-08	Provision of weepholes.	/	=X	
Minor				
DPWS-113-01	No cracks.	/	X	
DPWS-113-08	Adequate and proper spacing of weepholes.	/	X	
		/	=X	
Item 114 Gabior	n/Mattresses			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major De	efects	
DPWS-114-01	Conformance to the required/approved tolerances for lines, grades, dimensions and arrangements as shown on the plans and designated locations	/	x	
DPWS-114-02	Observance to proper placing of stones/boulders.	/	X	
DPWS-114-03	Conformance to specifications (size, type, weight, etc. of boulders, rocks).	/	X	
Minor				
DPWS-114-04	No misalignment, bulging	/	X	
DPWS-114-05	Conformance to the required wire mesh cage fabrication requirement	/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		– No. of Indicators (b)	
Entered by:	Date: / /		= Rate = (a) / (b) =	
			Rate =	

 PROJECT ID/NO.:
 PROJECT TYPE: DIESEL POWER PLANT

 _____VISIT
 LOCATION:

ITEM: Site Development

DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 115 Tops	soil			
DPWS-115-01	Conformance to the scope of work.	/	X	
DPWS-115-02	Properly tilled.	/	X	
DPWS-115-03	Free from weeds or undesirable grasses.	/	=X	
Item 116 Sprig	gging / Sodding	/	=	
DPWS-116-01	Conformance to the scope of work.	/	X	
DPWS-116-02	Healthy, dense and well rooted.	/	X	
DPWS-116-03	Free from weeds or undesirable grasses.	/	X	
		/	X	
Item 117 Orn	ament Plant/Tree Planting			
DPWS-117-01	Conformance to the scope of work.	/	X	-
DPWS-117-02	Healthy, dense and well rooted.	/	X	-
DPWS-117-03	Free from weeds or undesirable grasses.	/	X	-
		/	X	-
		/	X	-
		/	=X	-
		/	X	-
		/	X	-
	or used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
intered by:	Date: <u>/ /</u>	_	Rate = (a) / (b) =	
			Rate	1

PROJECT ID/NO.: _____ PROJECT TYPE: **DIESEL POWER PLANT** _____VISIT LOCATION: _____ ITEM: Site Development

DATE OF VISIT: / /

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Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 118 Peri	meter /Seclusion Fence			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
DPWS-118-01	Conformance to the approved/specified tolerance for alignment, dimension, plumbness and elevation.	/	X	-
DPWS-118-02	Conformance to required quality of CHB	/	X	_
DPWS-118-03	Conformance to required quality of mortar mix	/	X	_
Minor				
DPWS-118-04	Proper spacing of horizontal and vertical bars.	/	X	-
DPWS-118-05	Rebars used free from corrosion.	/	X	_
DPWS-118-06	Installed according to plans and specifications.	/	X	_
DPWS-118-07	Conformance to the specified/designed depth of fence footings.	/	X	
DPWS-118-08	Conformance to the specified/designed length of fence per bay.	/	X	-
		/	X	-
		/	X	
		/	X	
		/	X	
		/	x	
		/		
		/	X	
		/	X	-
	or used? If yes, name of company and owner:		- Total Score (a) = No. of Indicators (b)	CAR Total
	Date: / /		= Rate = (a) / (b)	
			= Rate	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT LOCATION: _____

ITEM:Site Development

DATE OF VISIT: / /

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the		Score	Action
Code	indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monito
Item 119 Gate	/GuardHouse			
DPWS-119-01	Conformance to the approved/specified tolerance for alignment, dimension, and plumbness	/	X	
DPWS-119-02	Installed according to plans and specifications.	/	X	
Item 120 Outo	loor, Roadway and Perimeter Lighting System			
DPWS-120-01	Conformance of in-placed materials to plans and specifications.	/	X	
DPWS-120-02	Provision of waterproofed structure implement for outdoor illumination.	/	x	
DPWS-120-03	Conformance to the required dimension of lighting poles (height, diameter)	/	X	
DPWS-120-04	Proper installation of lighting poles and fixtures (bulbs, switches, wires, cables, load break switch, power fuse, lightning arrester).	/	=X	
DPWS-120-05	Proper installation of electrical wiring resulting to non-peeling-off of insulation.	/	X	
DPWS-120-06	Proper installation of conduit pipes.	/	X	
DPWS-120-07	Provision of concrete encasement for pipes and conduits.	/	X	
		/	X	
Item 121 Deep	owell Drilling and Development			
Item 121 Deep Major	owell Drilling and Development			
-	Dilled and developed according to plans and specifications.	/	X	
Major		/	=	
Major DPWS-121-01 DPWS-121-02 DPWS-121-03	Drilled and developed according to plans and specifications.		=X =X	
Major DPWS-121-01 DPWS-121-02	Drilled and developed according to plans and specifications. Complied and passed draw down tests. Water quality complied and passed test requirements.		=X	
Major DPWS-121-01 DPWS-121-02 DPWS-121-03	Drilled and developed according to plans and specifications. Complied and passed draw down tests. Water quality complied and passed test requirements.		=	
Major DPWS-121-01 DPWS-121-02 DPWS-121-03 Minor	Drilled and developed according to plans and specifications. Complied and passed draw down tests. Water quality complied and passed test requirements.	/ / /	=X	
Major DPWS-121-01 DPWS-121-02 DPWS-121-03 Minor DPWS-121-04	Drilled and developed according to plans and specifications. Complied and passed draw down tests. Water quality complied and passed test requirements. Drilling method suited to condition of deep well site to be drilled. Method of placing the formation stabilizer/gravel pack in the annulus are done in such a way that separation of gravel and	/ / /	=X	
Major DPWS-121-01 DPWS-121-02 DPWS-121-03 Minor DPWS-121-04 DPWS-121-05	Drilled and developed according to plans and specifications. Complied and passed draw down tests. Water quality complied and passed test requirements. Drilling method suited to condition of deep well site to be drilled. Method of placing the formation stabilizer/gravel pack in the annulus are done in such a way that separation of gravel and bridging are avoided.	/ / /	=X =X =X =X =X =X	
Major DPWS-121-01 DPWS-121-02 DPWS-121-03 Minor DPWS-121-04 DPWS-121-05 DPWS-121-06	Drilled and developed according to plans and specifications. Complied and passed draw down tests. Water quality complied and passed test requirements. Drilling method suited to condition of deep well site to be drilled. Method of placing the formation stabilizer/gravel pack in the annulus are done in such a way that separation of gravel and bridging are avoided. Well is cleaned in accordance with the specified method. r used? If yes, name of company and owner:	/ / / /	=X =X =X =X	CAR Tota
Major DPWS-121-01 DPWS-121-02 DPWS-121-03 Minor DPWS-121-04 DPWS-121-05 DPWS-121-06	Drilled and developed according to plans and specifications. Complied and passed draw down tests. Water quality complied and passed test requirements. Drilling method suited to condition of deep well site to be drilled. Method of placing the formation stabilizer/gravel pack in the annulus are done in such a way that separation of gravel and bridging are avoided. Well is cleaned in accordance with the specified method. r used? If yes, name of company and owner:	/ / / /	=X =X =X =X =X Total Score (a) =	CAR Tota

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT ITEM:Site Development LOCATION: _____

DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific	Results	Score x factor	Action / Monitor
	item of work is zero (0).			
Item 122 Deep	well Submersible Pump			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
DPWS-122-01	Complied and passed required test.	/	X	
		/	X	
Minor			=	
DPWS-122-02	Installed according to plans and specifications complete with controls and accessories.	/	x	
DPWS-122-03	Provision of steel guard on power cable along the well casing.	/	X	
DPWS-122-04	Pump is operated in conjunction with the level controller installed at the water tank.	/	X	
DPWS-122-05	Provision of uPVC conduits for underground power cables.	/	X	
		/	X	
		/	=X	
Item 123 Eleva	ated Steel Water Tank			
Major				
DPWS-123-01	Tank parts and support structure are installed in accordance with plans and specifications.	/	X	
DPWS-123-02	Complied and passed required leak tests.	/	X	
DPWS-123-03	Free from corrosion and any form of damages.	/	X	
		/	x	
Minor				
DPWS-123-03	Free from rust and any form of damages.	/	X	
DPWS-123-04	Installed according to plan complete with control and accessories (i.e., balcony with handrail, access caged ladder, air vent, water level indicator, overflow pipe, inlet-outlet piping, drain valves and fittings, level switch attachment, access hatch, beacon red warning light).	/	X	
DPWS-123-05	Structural members free of twist, bends and deformations.	/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: <u>/ /</u>		Rate = (a) / (b) =	
			Rate =	

 PROJECT ID/NO.:
 PROJECT TYPE: DIESEL POWER PLANT

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 LOCATION:

ITEM: Site Development
DATE OF VISIT: / /

raotor : Baring				
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action / Monitor
Item 124 Dom	estic Water Supply Piping System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
DPWS-124-01	Installed pipes, fittings and valves conformed to plans and specifications.	/	X	
DPWS-124-02	Water line laid not less than 1.0 meter from sewer lines.	/	X	
DPWS-124-03	Complied and passed hydraulic and leak tests.	/	X	
Minor				
DPWS-124-04	Pipes laid free from dirt or other foreign materials.	/	X	
DPWS-124-05	Provision of pipe sleeves for pipes crossing roadways.	/	X	
DPWS-124-06	Provision of temporary pipe blind flange/caps at both ends during installation.	/	X	
DPWS-124-07	Potable water lines are disinfected prior to use.	/	X	
		/	X	
Item 125 Grav	vel Surfacing			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
DPWS-125-01	Complied to the required thickness of gravel surfacing as indicated in the drawings and specifications.	/	x	
DPWS-125-02	Complied to the appropriate placement workmanship in placing, spreading, compacting of gravel as specified in the drawings or specifications		x	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
	or used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: <u>/ /</u>		= Rate = (a) / (b) =	
			Rate =	

 PROJECT ID/NO.:
 PROJECT TYPE: DIESEL POWER PLANT
 ITEM: Site Development

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 LOCATION:
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DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
em 126 Concr	ete Drainage Canals			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major D	efects	
DPWS-126-01	Adherence to proper construction methodology.	/	X	
DPWS-126-02	Conformance with approved/specified tolerances for lines, grades, cross-sections, elevations & dimensions as specified in the drawings and specifications.	/	x	
DPWS-126-03	Non-displacement of in-placed concrete canal linings	/	X	
Minor			-	
DPWS-126-04	Conformance to the location of construction joints as shown in the drawing or indicated in the specifications	/	X	
DPWS-126-05	Conformance to the jointing requirements.	/	X	
		/	X	
Item 127 Oil-V	Vater Separator			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major D	efects	
DPWS-127-01	Adherence to proper construction methodology.	/	=X	
DPWS-127-02	Conformance with approved/specified cross-sections, elevations & dimensions as indicated in the drawings and specifications.	/	x	
DPWS-127-03	Adherence to proper connection of the outlet pipe to main sewer system	/	X	
DPWS-127-04	Compliance to the environmental requirement	/	X	
		/	=X	
Item 128 Roc	kwall/Retaining Wall			
DPWS-128-01	Conformance with approved/required tolerances for slopes, thickness, alignment, elevations and dimensions as indicated in the drawings and specifications.	/	X	
DPWS-128-02	Conformance to the required size, type, weight and quality of rock and boulder materials to be used as indicated in plans and specifications.	/	X	
DPWS-128-03	Observance to the proper placing and laying of stones and boulders.	/	X	
DPWS-128-04	Conformance with the provision of weepholes and the required spacing.	/	=X	
DPWS-128-05	Compliance to the design mix of mortar and the sufficiency of grout.	/	=X	
	r used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
Intered by:	Date: / /	_	= Rate = (a) / (b)	
			= Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT ITEM: Powerhouse LOCATION: _____

DATE OF VISIT: / /

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Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific	Results	Score x factor	Action / Monitor
	item of work is zero (0).			
Item 200 Fill a	nd Selected Fill			
DPWS-200-01	Conformance of in-placed materials according to plans and specifications	/	X	
DPWS-200-02	Conformance to the required thickness of fill or backfill per layer.	/	X	
DPWS-200-03	Conformance to the required density or degree of compaction	/	=X	
		/	=X	
Item 201 Soil	Poisoning			
DPWS-201-01	Conformance to the specified concentration of soil poisoning solution.	/	=X	
DPWS-201-02	Conformance to the specified rate of application.	/	=X	
		/	=X	
Item 202 CHB	Wall			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major D	efects	
DPWS-202-01	Conformance to required dimensions, location, plumbness and alignment.	/	X	
DPWS-202-02	Conformance to required quality of CHB as stipulated in the specifications	/	=X	
DPWS-202-03	Conformance to required quality of mortar mix.	/	=X	
		/	=X	
Minor				
DPWS-202-01	Conformance to specified tolerances for dimension, location, plumbness and alignment.	/	X	
DPWS-202-04	Proper spacing of horizontal and vertical bars.	/	X	
DPWS-202-05	Rebars used free from corrosion.	/	=X	
		/	=X	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate	1

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PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT ITEM: Powerhouse LOCATION: _____

DATE OF VISIT: / /

INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	x factor	Monito
specific item of work is zero (0).			
< Wall			
	of Major	Defects	
and alignment.	/	X	
Conformance to required quality of bricks as stipulated in the specifications	/	X	
Conformance to required quality of mortar mix.	/	X	
Conformance to specified tolerances for dimension, location, plumbness and alignment.	/	X	
Proper spacing of horizontal and vertical bars.	/	=X	
Rebars used free from corrosion.	/	X	
	/	X	
Finish			
Installed tiles free from chipping, cracks or any form of damage	/	X	
Mortar/Grout consistency and color conformed to specification	/	x	
Tiles are evenly placed or laid on.	/	X	
Tiles in wet areas are sloped toward the drain.	/	X	
Tiles are properly bonded to the floor or walls.	/	=X	
	/	=X	
elled Floor Finish			
Smooth and even floor finish.	/	X	
No temperature cracks.	/	=X	
No sign of deflection/settlement.	/	X	
	/	X	
r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
		No. of Indicators (b) =	
Date: / /	-	 Rate = (a) / (b) =	1
			4
	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). * Refer to Section 11.4a of the CPES Guidelines for definition Conformance to required quality of bricks as stipulated in the specifications Conformance to required quality of bricks as stipulated in the specifications Conformance to required quality of mortar mix. Conformance to specified tolerances for dimension, location, plumbness and alignment. Proper spacing of horizontal and vertical bars. Rebars used free from corrosion. Installed tiles free from corrosion. Tiles are evenly placed or laid on. Tiles in wet areas are sloped toward the drain. Tiles are properly bonded to the floor or walls. No temperature cracks. No sign of deflection/settlement. No sign of deflection/settlement.	"Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of spots, the rating for that specific item of work is zero (0). Results Wall Image: Conformance to required dimensions, location, plumbness and alignment. / Conformance to required quality of bricks as stipulated in the specifications / Conformance to required quality of bricks as stipulated in the specifications / Conformance to required quality of mortar mix. / Conformance to required quality of mortar mix. / Conformance to specified tolerances for dimension, location, plumbness and alignment. / Proper spacing of horizontal and vertical bars. / Rebars used free from corrosion. / Installed tiles free from chipping, cracks or any form of damage / Mortar/Grout consistency and color conformed to specification / Tiles in wet areas are sloped toward the drain. / Tiles are properly bonded to the floor or walls. / Smooth and even floor finish. / No sign of deflection/settlement. / No sign of deflection/settlement. /	Note: Spots with a single major detect shall forkit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is set in iffy percent (30%) of the total number of spots, the rating for that specific item of work is zero (0). Results Score

____VISIT

 PROJECT ID/NO.:
 PROJECT TYPE: DIESEL POWER PLANT
 ITEM: Powerhouse

 LOCATION: _____

DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 206 Pebb				
DPWS-206-01	Installed pebbles are evenly distributed.	/	X	
DPWS-206-02	No temperature cracks.	/	X	
DPWS-206-03	Installed pebbles surface are thoroughly clean from cement.	/	X	
		/	X	
Item 207 Wate	rproofing			
DPWS-207-01	Conforms to specified method of application.	/	X	
DPWS-207-02	Conforms to number of coats/layers required.	/	=X	
DPWS-207-03	Passed required leak test.	/	=X	
DPWS-207-04	Conformance to the required materials specifications as per plan.	/	X	
		/	=X	
Item 208 Wall	Paper			
DPWS-208-01	Smooth and evenly pasted.	/	=X	
DPWS-208-02	Free from scratches, stains, etc.	/	X	
		/	X	
Item 209 Wall	Plaster Finish			
DPWS-209-01	Conformance to designed mixture of plastering materials.	/	=X	
DPWS-209-02	Conformance to specified method of application and thickness of plastering.	/	=X	
DPWS-209-03	True to alignment.	/	=X	
DPWS-209-04	Free from any form of damages, e.g. cracks, peeled-off plaster finish	/	X	
		/	=X	
			Total Score (a)	CAR Total
Vas subcontracto	r used? If yes, name of company and owner:		=	
	r used? If yes, name of company and owner: &		= No. of Indicators (b) =	\vdash
			=	

VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT LOCATION: _____

ITEM: Powerhouse DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monito
Item 210 Wal	l Cladding			
DPWS-210-01	Panels properly anchored.	/	X	
DPWS-210-02	True to alignment, plumbness.	/	X	
DPWS-210-03	Free from any form of damages.	/	X	
DPWS-210-04	Panels conform to construction procedure.	/	X	
		/	X	
Item 211 Wall	/Roof Painting			
DPWS-211-01	Surface prepared according to specification.	/	X	
DPWS-211-02	Required neutralizers, etc. applied.	/	X	
DPWS-211-03	Applied paint appropriate to the surface.	/	X	
DPWS-211-04	Specified number of coats applied.	/	X	
DPWS-211-05	Surfaces evenly painted, proper opacity.	/	X	
DPWS-211-06	No discoloration and peeling-off of paint.	/	X	
DPWS-211-07	Paints conform to specification/requirements.	/	X	
DPWS-211-08	Surfaces are properly applied with putty/patching compound.	/	X	
		/	X	
Item 212 Ceil	ing Suspension			
DPWS-212-01	Conformance to the specified spacing and length of hangers, clips and joists.	/	X	
DPWS-212-02	Installed hangers are properly anchored and firm.	/	X	
DPWS-212-03	True to alignment and elevation in conformance to the approved specified tolerance.	/	X 	1
DPWS-212-04	Free from any form of damage.	/	X	
		/	X	
/as subcontracto	r used? If yes, name of company and owner:		= Total Score (a) -	CAR Tota
			= No. of Indicators (b)	
Intered by:	Date: / /		= Rate = (a) / (b)	
			= Rate	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT LOCATION: _____

ITEM: Powerhouse DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 213 Ceili	ng Board			
DPWS-213-01	Materials free from any form of damage.	/	X	
DPWS-213-02	Smooth surface and true to elevation and alignment.	/	X	
DPWS-213-03	Location of holes for utilities conforms to plans.	/	=X	
DPWS-213-04	Ceiling boards are properly fastened.	/	X	
		/	X	
Item 214 Ceili	ng Moulding			
DPWS-214-01	True to elevation and alignment.	/	X	
DPWS-214-02	Installed materials are free from any form of damages.	/	X	
		/	=X	
Item 215 Roof	ing Frames			
DPWS-215-01	Conformance to the required size, spacing, slope, anchorage, etc.	/	X	
DPWS-215-02	Free from any form of damage.	/	X	
DPWS-215-03	Cleats are properly provided.	/	X	
DPWS-215-04	Application of paint primer prior to installation	/	X	
		/	X	
Item 216 Root	ing Sheets			
DPWS-216-01	Conformance to the specified gauge, length, etc.	/	X	
DPWS-216-02	Conformance to the specified overlapping, sealing of joints, fastening.	/	X	
DPWS-216-03	Installation of flashing, gutters, ridge rolls, downspouts, etc., according to plans.	/	X	
DPWS-216-04	Non-occurrence of leaks.	/	X	
DPWS-216-05	Free from any form of damage.	/	X	
	r used? If yes, name of company and owner:		Total Score (a) No. of Indicators (b)	CAR Total
	Date: / /	-	Rate = (a) / (b)	
			= Rate	4

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: **DIESEL POWER PLANT** LOCATION: _____

ITEM: **Powerhouse** DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 217 Doo				
DPWS-217-01	True to alignment, plumbness in conformance to the approved/specified tolerance.	/	X	
DPWS-217-02	Doors are well fitted to the door frames.	/	X	
DPWS-217-03	Door accessories installed according to plans, e.g. locksets, door closers, hinges, door stoppers.	/	X	
DPWS-217-04	Free from any form of damage.	/	X	
DPWS-217-05	Doors conform to specification requirements, e.g. panel door, flush door polyvinyl, steel doors, etc.	/	X	
		/	X	
		/	X	
Item 218 Win	dows			
DPWS-218-01	True to alignment and elevation in conformance to the approved/specified tolerance.	/	=X	
DPWS-218-02	Windows are well fitted to the window frames.	/	X	
DPWS-218-03	Window accessories installed according to plans, e.g. handles, seals, glazing for glass window, etc.	/	X	
DPWS-218-04	Free from any form of damage.	/	X	
DPWS-218-05	Windows conform to specification requirements, e.g.sliding, jalousies (glass and wooden) steel casement windows	/	x	
		/	= X	
		/	X	
Item 219 Rail	ings			
DPWS-219-01	Installed according to plans.	/	X	
DPWS-219-02	Free from dents, scratches or any form of damage.	/	X	
DPWS-219-03	Bends and curves are smooth.	/	X	
DPWS-219-04	Conforms to approved tolerance size, dimension, height and type, e.g. concrete, steel, stainless, aluminum, etc.	/	X	
		/	=X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Intered by:	Date: / /	-	Rate = (a) / (b) =	
			Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: **DIESEL POWER PLANT** ITEM: **Powerhouse**

LOCATION: _____

DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 220 Plum				
DPWS-220-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports.	/	X	
DPWS-220-02	Conducted and passed the required leak test.	/	X	
DPWS-220-03	Pipes not clogged.	/	X	
DPWS-220-04	Free from any form of damages.	/	X	
DPWS-220-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location.	/	X	
DPWS-220-06	Adhesive conform to specification.	/	=X	
DPWS-220-07	Water closet, lavatory conform to specification.	/	=X	
		/	=X	
		/	X	
		/	=X	
Item 221 San	itary			
DPWS-221-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports.	/	X	
DPWS-221-02	Conducted and passed the required pressure/leak test.	/	=X	
DPWS-221-03	Pipes not clogged.	/	X	
DPWS-221-04	Free from any form of damages.	/	X	
DPWS-221-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location.	/	X	
DPWS-221-06	Adhesives conform to specifications.	/	X	
		/	X	
		/	X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner :		Total Score (a)	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate	

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT ITEM: Powerhouse ____VISIT LOCATION: _____

DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action / Monitor
Item 222 Strue	ctural Steel Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	f Major De	efects	
DPWS-222-01	Conformance of in-placed materials to plans and specifications.	/	X	
DPWS-222-02	Conformance to required fasteners, anchor bolts,bolts/nuts and washers (not provided).	/	X	
DPWS-222-03	Free from corrosion and any other form of damages.	/	X	
DPWS-222-04	Conformance to splicing requirements.	/	X	
Minor				
DPWS-222-03	Free from rust and any other form of damages.	/	X	
DPWS-222-06	Conformance to the specified type of welding.	/	X	
DPWS-222-07	Fasteners, anchor bolts, bolts/nuts & washers conforms to specified size, strength, etc.	/	X	
DPWS-222-08	Installed according to plans.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=X 	
		/	=X X	
		/	=X	
		/	=X	
		/	=X	
		/	=	
	r used? If yes, name of company and owner:	_	Total Score (a) = No. of Indicators (b)	CAR Total
	Date: <u>/ /</u>		= Rate = (a) / (b) = Rate	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT ITEM: Powerhouse LOCATION: _____

DATE OF VISIT: / /

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monitor
Item 223 Elec	trical Works			
DPWS-223-01	Pipes installed according to plans and laid out according to approved construction drawings.	/	X	-
DPWS-223-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed.	/	X	-
DPWS-223-03	Pipes properly bended.	/	X	-
DPWS-223-04	Allowable number of wires in a pipe properly observed.	/	X	-
DPWS-223-05	Splicing and connection provided with adequate rubber and pvc tapes.	/	X	-
DPWS-223-06	Adequate length of wire provided for termination and splicing.	/	X	-
DPWS-223-07	Wire color coding complied and observed.	/	X	-
DPWS-223-08	Wire insulation not damaged during pulling.	/	X	-
DPWS-223-09	Adequate number, correct size and gauge of pull boxes installed and properly covered.	/	X	-
DPWS-223-10	Boxes and enclosures provided according to intended purpose.	/	X	-
DPWS-223-11	Fittings and accessories provided and properly installed.	/	X	-
DPWS-223-12	Block-outs and sleeves provided and properly secured.	/	X	-
DPWS-223-13	Cable ties provided.	/	X	-
DPWS-223-14	Blank covers provided for outlets and switches that are not utilized.	/	X	-
DPWS-223-15	Use of tools and equipment properly observed.	/	X	-
DPWS-223-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages.	/	X	-
DPWS-223-17	Meager, clamp, phase sequence tests and load test conducted.	/	X	-
DPWS-223-18	Shop drawings, as-built plan maintained.	/	X	-
		/	X	_
		/	X	-
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: _/ /	_	Rate = (a) / (b)	
			= Rate	┫

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: **DIESEL POWER PLANT** ITEM: **Powerhouse** LOCATION: _____

DATE OF VISIT: / /

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monitor
Item 224 Air C	Conditioning System			
DPWS-224-01	Air-conditioning units, transfer fans, pipes, ducts, condensers are installed according to plans.	/	X	
DPWS-224-02	Jointing of pipes and ducts conform to specified jointing system.	/	=X	
DPWS-224-03	Pipes and ducts free from leaks.	/	=X	
DPWS-224-04	Pipes and ducts sufficiently braced/supported.	/	=X	
DPWS-224-05	Installed materials free from any form of damage.	/	X	
DPWS-224-06	Conducted and passed the required tests.	/	=X	
		/	X	-
Item 225 Vent	ilation System			
DPWS-225-01	Conformance to the design specifications and drawings.	/	X	-
DPWS-225-02	Casing free from dent.	/	X	-
DPWS-225-03	Conducted and passed the required tests.	/	X	-
		/	X	-
Item 226 Sep	tic Vaults			
DPWS-226-01	Adherence to proper construction methodology	/	X	-
DPWS-226-02	Conformance with approved/specified for lines, grades, cross-section, elevation, & dimensions as indicated in drawing.	/	X	-
DPWS-226-03	Adherence to proper connection of the outlet pipe to main sewer.	/	X	-
		/	X	-
		/	X	-
		/	X	-
		/	X	-
/as subcontracto	or used? If yes, name of company and owner:	<u> </u>	Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b)	
			– Rate	1

 PROJECT ID/NO.:
 PROJECT TYPE: DIESEL POWER PLANT

 _____VISIT
 LOCATION:

ITEM: Equipment Foundations DATE OF VISIT: / /

g	INDICATORS			
Sub-item	*Note: Spots with a single major defect shall forfeit all points for the rest of the		Score	Action /
Code	indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific	Results	x factor	Monitor
	item of work is zero (0).			
Item 300 Fill /	Sand and Gravel Bedding			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major De	efects	
DPWS-300-01	Conformance of in-placed materials to plans and specifications.	/	=X	
DPWS-300-02	Conformance to the required thickness of bedding and of fill per layer	/	=X	
DPWS-300-03	Conformance to the required density or degree of compaction	/	X	
Minor				
DPWS-300-04	Conformance to ground level restoration.	/	X	
		/	=X	
Item 301 Lean	Concrete			
DPWS-301-01	Adherence to proper construction methodology.	/	X	
DPWS-301-02	Conformance to the required thickness and strength	/	X	
		/	X	
Item 302 Anch	or Bolt Setting			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition o	f Major De		
DPWS-302-01	Conformance to the anchor bolt setting dimensions.	/	=X	
DPWS-302-02	Precise setting of template.	/	=X	
Minor				
DPWS-302-03	Anchor bolts and templates fix with supporter.	/	X	
		/	=X	
Item 303 Epox	y and Non-cementitous Grouting			
DPWS-303-01	Conformance to the required workmanship in mixing, placing, spreading, compacting, curing and surface finishing as showing on drawing or indicated in the specifications.	/	x	
		/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&	_	No. of Indicators (b) =	
				-
Entered by:	Date: / /		Rate = (a) / (b)	
Entered by:	Date: <u>/ /</u>		Rate = (a) / (b) = Rate	

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT ITEM: Equipment ____VISIT LOCATION: _____

Foundations DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 304 Cabl	e Trench Cover and Supports			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition o	of Major De	efects	
DPWS-304-01	Provision of block-outs for installation of metal works.	/	X	
DPWS-304-02	Metal works and materials installed in accordance to the details shown in the drawing (alignment, position).	/	X	
DPWS-304-03	Block-outs were grouted after installation of metal works.	/	=X	
		/	=X	
Item 305 Grav	rel Surfacing			
Major				
DPWS-305-01	Conformance to required lines, grades and thickness.	/	=X	
Minor				
DPWS-305-02	Compliance to the specified construction methodology.	/	=X	
DPWS-305-03	No oversize/undersize of in-placed materials.	/	X	
		/	X	
		/	X	
		/	=X	
		/	=X	
		/	=X	
		/	X	
		/	X	
		/	X	
	or used? If yes, name of company and owner: &		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b) =	
			Rate =	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT ITEM: Common Items

LOCATION: _____

of Works DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 400 Exca	vation			
DPWS-400-01	Conformance to the approved/specified tolerance for lines, grades, dimensions and elevations.	/	X	
DPWS-400-02	Conformance to the excavation support system, (e.g. angle of repose, bracing, shoring, sheet piling)	/	X	
		/	X	
Item 401 Back	fill			
DPWS-401-01	Conformance of in-placed materials to plans and specifications.	/	X	
DPWS-401-02	Conformance to the required thickness of backfill per layer	/	=X	
DPWS-401-03	Conformance to the required density or degree of compaction	/	=X	
		/	=X	
Item 402 Form	nworks			
DPWS-402-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	=X	
DPWS-402-02	Forms coated with mould oil as required	/	=X	
DPWS-402-03	Sufficient bracing/support provided	/	=X	
DPWS-402-04	No loose knots, splits, cracks, etc.	/	=X	
DPWS-402-05	Provision of required concrete or steel spacer	/	=X	
DPWS-402-06	Conformance to dimensions, location, plumbness and alignment	/	=X	
DPWS-402-07	No use of dilapidated/salvage forms (use more than 3x)	/	X =	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	& Date:/ /		No. of Indicators (b) = Rate= (a) / (b) =	
			Rate	1

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: DIESEL POWER PLANT ITEM: Common Items LOCATION: _____

of Works DATE OF VISIT: / /

				1
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Itom 102 Point	forcing Steel Bars (including tendons for Pre/Post-			
Stressed Con				
	· · · · · · · · · · · · · · · · · · ·			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major I		
DPWS-403-01	Conformance of in-placed materials to plans and specifications.	/	X	
DPWS-403-02	No appearance of corrosion on steel reinforcement.	/	=X	
Minor				
DPWS-403-02	No appearance of corrosion on steel reinforcement.	/	X	
DPWS-403-03	Conformance to approved bar cutting schedule, proper spacing, anchorage and adequate reinforcements.	/	X	
DPWS-403-04	No sign of oil, paint and other deleterious materials on reinforcements.	/	X	
DPWS-403-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	X	
DPWS-403-06	Conformance to proper bending of stirrups	/	X =	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate= (a) / (b) =	
			Rate =	

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: **DIESEL POWER PLANT** LOCATION: _____

ITEM: Common Items of Works DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 404 Cond	crete			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major I	Defects	
DPWS-404-01	No through cracks.	/	X	
DPWS-404-02	No honeycomb (no exposed rebars/aggregates)	/	X	
DPWS-404-03	No evidence of sagging or bulging.	/	X	
DPWS-404-04	Conformance to required quality of concrete mix	/	X	
DPWS-404-05	Conformance to the required concrete cover for rebars.	/	X	
DPWS-404-06	Conformance to the jointing requirement.	/	X	
DPWS-404-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	X	
Minor				
DPWS-404-01	No cracks.	/	X	
DPWS-404-02	No honeycomb.	/	X	
DPWS-404-03	No sagging or bulging.	/	X	
DPWS-404-05	Conformance to the required concrete cover for rebars.	/	X	
DPWS-404-06	Conformance to the jointing requirement.	/	=X	
DPWS-404-07	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment.	/	X	
DPWS-404-08	Proper and adequate vibration.	/	X	
DPWS-404-09	Conformance to finishing/plastering requirement.	/	X	
DPWS-404-10	No chipping off of concrete cover.	/	X	
DPWS-404-11	Conformance to the batching, mixing, transporting and discharge time requirements.	/	X	
DPWS-404-12	Proper curing.	/	X	
DPWS-404-13	Conformance to required dimensions, lines. grades/elevation, location.	/	X	
		/	X	

PROJECT NO.: _____ VISIT

PROJECT TYPE: Diesel Power Plant LOCATION: _____ ITEM: Equipment Installation DATE OF VISIT: //

INDICATORS			
*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	Score x factor	Action / Monitor
specific item of work is zero (0).			
Generator Set and its appurtenances			
* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major I	Defects	
Installed according to approved plans and specifications.	/	x	
Conducted and passed all required pre commissioning and commissioning tests.	/	X	
	/	X	
Connections are properly secured by bolts, nuts, locknuts and washers.	/	=X	
Conformance with specified tolerances for plumbness and alignment.	/	X	
No damage/defective component parts.	/	=X	
	/	=X	
Dil System			
Fuel Oil Storage Tanks, Pumps, piping and other equipment and components are installed according to approved plans and specifications.	/	X	
Conducted and passed the required tests.	/	X	
	/	=X	
Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
Conformance with specified tolerances for plumbness and alignment.	/	X	
No damage/defective component parts.	/	X	
	/	X	
	/		
	/ / /	=X	
used? If yes, name of company and owner:	/	=X =X = Total Score (a)	CAR Total
used? If yes, name of company and owner:	/	= X =X =	CAR Total
	/	=X =X = Total Score (a)	CAR Total
	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). el Generator Set and its appurtenances * Refer to Section 11.4a of the CPES Guidelines for definition Installed according to approved plans and specifications. Conducted and passed all required pre commissioning and commissioning tests. Connections are properly secured by bolts, nuts, locknuts and washers. Conformance with specified tolerances for plumbness and alignment. No damage/defective component parts. Dil System Fuel Oil Storage Tanks, Pumps, piping and other equipment and components are installed according to approved plans and specifications. Connections are properly secured by bolts, nuts, locknuts and washers. Conducted and passed the required tests . Conducted and passed the required tests . Conducted and passed the required tests . Connections are properly secured by bolts , nuts, locknuts and specifications. Conducted and passed the required tests. Connections are properly secured by bolts , nuts, locknuts and washers. Conformance with specified tolerances for plumbness and alignment.	*Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Results It Generator Set and its appurtenances * * Refer to Section 11.4a of the CPES Guidelines for definition of Major Installed according to approved plans and specifications. / Conducted and passed all required pre commissioning and commissioning tests. / Connections are properly secured by bolts, nuts, locknuts alignment. / No damage/defective component parts. / Fuel Oil Storage Tanks, Pumps, piping and other equipment and specifications. / Fuel Oil Storage Tanks, Pumps, piping and other equipment and specifications. / Conducted and passed the required tests. / Conducted and passed the required tests. /	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Results Score x factor Ises than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects Installed according to approved plans and specifications. / X

____VISIT

PROJECT NO.: _____ PROJECT TYPE: Diesel Power Plant LOCATION: _____

ITEM: Equipment Installation DATE OF VISIT: / /

Sub-item	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of		Score	Action
Code	the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	x factor	Monito
	specific item of work is zero (0).			
Item 502 Cool	ing System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major	Defects	
DPWS-502-01	Cooling Water Storage Tanks, Pumps, piping and other equipment and components are installed according to approved plans and specifications.	/	X	
DPWS-502-02	Conducted and passed the required tests.	/	X	
		/	X	
		/	X	
Minor			=	
DPWS-502-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
DPWS-502-04	Conformance with specified tolerances for plumbness and alignment.	/	X	
DPWS-502-05	No damage/defective parts and materials.	/	X	
		/	X	
Item 503 Cool	ing Water Supply System			
Major	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major	Defects	
DPWS-503-01	Water Storage Tanks, Pumps, piping and other equipment and components are installed according to approved plans and specifications.	/	X	
DPWS-503-02	Conducted and passed the required tests.	/	X	
		/	X	
Minor				
DPWS-503-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	=X	
DPWS-503-04	Conformance with specified tolerances for plumbnessb and alignment.	/	X	
DPWS-503-05	No damage/defective component parts.	/	X	
		/	X	
		/	X	
Vas subcontracto	or used? If yes, name of company and owner :		Total Score (a)	CAR Total
	· · ·	_	No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) =	

____VISIT

PROJECT NO.: _____ PROJECT TYPE: Diesel Power Plant LOCATION: _____

ITEM: Equipment Installation DATE OF VISIT: / /

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 504 Lubri	ication Oil System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	n of Major I	Defects	
DPWS-504-01	Lube Oil Tanks, Pumps, Filtering equipment and piping and other equipment and components are installed according to approved plans and specifications.	/	X	
DPWS-504-02	Conducted and passed the required tests.	/	X	
		/	=X	
Minor				
DPWS-504-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
DPWS-504-04	Conformance with specified tolerances for plumbness and alignment.	/	X	
DPWS-504-05	No damage/defective component parts.	/	X	
		/	=X	
Item 505 Com	pressed Air System			
Major				
DPWS-505-01	Air Compressors, Receivers and piping and other equipment and components are installed according to approved plans and specifications.	/	X	
DPWS-505-02	Conducted and passed the required tests.	/	X	
		/	=X	
Minor				
DPWS-505-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
DPWS-505-04	Conformance with specified tolerances for plumbnes sand alignment.	/	X	
DPWS-505-05	No damage/defective component parts.	/	X	
		/	=X	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

____VISIT

PROJECT NO.: _____ PROJECT TYPE: Diesel Power Plant LOCATION: _____

ITEM: Equipment Installation DATE OF VISIT: / /

				1
Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 506 Exha	nust System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition	of Major	Defects	
DPWS-506-01	Exhaust Pipe and its support assembly are installed according to approved plans and specifications.	/	X	
		/	=X	
Minor				
DPWS-506-02	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
DPWS-506-03	Conformance with specified tolerances for plumbness and alignment.	/	X	
DPWS-506-04	No damage/defective parts and materials.	/	X	
		/	=X	
Item 507 Dom	estic Water Supply System			
Major				
DPWS-507-01	Water Storage Tanks, Pumps, piping and other equipment and components are installed according to approved plans and specifications.	/	x	
DPWS-507-02	Conducted and passed the required tests.	/	=X	
		/	=X	
Minor				
DPWS-507-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
DPWS-507-04	Conformance with specified tolerances for plumbness and alignment.	/	X	
DPWS-507-05	No damage/defective component parts.	/	X	
		/	X	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	Date:/ /		Rate = (a) / (b)	
			= Rate	
			=	

PROJECT NO.:	PROJECT TYPE: Diesel Power Plant	П
VISIT	LOCATION:	

ITEM: <u>Equipment Installation</u> DATE OF VISIT: <u>//</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 508 Powe	r Transformer			
Major* * Refer to Section 11.4a of the CPES Guidelines for definition of Major Defects				
DPWS-508-01	Installed according to approved plans and specifications.	/	=X	
DPWS-508-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-508-03	Properly aligned and leveled.	/	=X	
DPWS-508-04	Appurtenants are clean and free from damages.	/	X	
DPWS-508-05	Tanks, conservator, radiators coolers and fittings are free from oil leaks.	/	X	
DPWS-508-06	Approved as-built drawings maintained.	/	X	
		/	=X	
Vas subcontractor used? If yes, name of company and owner:			Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by: Date:_ / /			Rate = (a) / (b) =	
			Rate =	

PROJECT NO.:	PROJECT TYPE: Diesel Power Plant	ITE
VISIT	LOCATION:	[

TEM: <u>Equipment Installation</u> DATE OF VISIT: <u>//</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 509 Powe	r Circuit Breaker			
Major				
DPWS-509-01	Installed according to approved plans and specifications.	/	X	
DPWS-509-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-509-03	Mounting bases are properly aligned and leveled.	/	X	
DPWS-509-04	Installed materials are free from damages.	/	X	
DPWS-509-05	Approved as-built drawings maintained.	/	X	
		/	X	
Item 510 Static	n Service Transformer			
Major				
DPWS-510-01	Installed according to approved plans and specifications.	/	X	
DPWS-510-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-510-03	Provision of proper ventilaton from the base of the finish ground level for cooling purposes.	/	X	
DPWS-510-04	Properly aligned and leveled.	/	X	
DPWS-510-05	Radiators and coolers are free from oil leaks.	/	X	
DPWS-510-06	Approved as-built drawings maintained.	/	X	
		/	X	
	•		Total Score (a)	CAR Total
	or used? If yes, name of company and owner:		No. of Indicators (b)	
	Date: / /		Rate = (a) / (b)	

PROJECT NO.:	PROJECT TYPE: Diesel Power Plant	IT
VISIT	LOCATION:	

ITEM: <u>Equipment Installation</u> DATE OF VISIT: <u>//</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 511 Kilow	att Hour Billing Meter			
Major				
DPWS-511-01	Installed according to approved plans and specifications.	/	X	
DPWS-511-02	Properly calibrated prior to installation.	/	X	
DPWS-511-03	Conducted and passed the required tests.	/	X	
Minor				
DPWS-511-04	Installed materials are free from damages.	/	X	
DPWS-511-05	Approved as-built drawings maintained.	/	X	
Item 512 Curre	nt Transformer			
Major				
DPWS-512-01	Installed according to approved plans and specifications.	/	X	
DPWS-512-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-512-03	Installed materials are free from damages.	/	X	
DPWS-512-04	Approved as-built drawings maintained.	/	X	
		/	X	
Item 513 Poten	tial/Voltage Transformer			
Major				
DPWS-513-01	Installed according to approved plans and specifications.	/	X	
DPWS-513-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-513-03	Installed materials are free from damages.	/	X	
DPWS-513-04	Approved as-built drawings maintained.	/	X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a) No. of Indicators (b)	CAR Total
Entered by:	~ Date: / /			
Linered by		_	Rate = (a) / (b) =	ļ
			Rate =	

PROJECT NO.:	PROJECT TYPE: <u>Diesel Power Plant</u>	ITE
VISIT	LOCATION:	C

TEM: <u>Equipment Installation</u> DATE OF VISIT: <u>//</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 514 Metal	Clad Switchgear			
Major				
DPWS-514-01	Installed according to approved plans and specifications.	/	=X	
DPWS-514-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-514-02	Stationary and moving assembly are properly aligned.	/	X	
DPWS-514-03	Installed materials are free from damage.	/	=X	
DPWS-514-04	Approved as-built drawings maintained.	/	X	
		/	=X	
Item 515 Disco	nnect / Earthing Switch			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
DPWS-515-01	Installed according to approved plans and specifications.	/	X	
DPWS-515-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-515-03	Moving parts are properly aligned and leveled.	/	X	
DPWS-515-04	Installed materials are free from damages.	/	X	
DPWS-515-05	Approved as-built drawings maintained.	/	X	
		/	X	
Nac subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
			No. of Indicators (b)	
Entorod by:	Date: / /		Pote (a) / (b)	
_Intered by		_	Rate = (a) $/$ (b)	

PROJECT NO.:	PROJECT TYPE: Diesel Power Plant	ľ
VISIT	LOCATION:	

ITEM: Equipment Installation DATE OF VISIT: //

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 516 Powe	r, Control & Protection Panel			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
DPWS-516-01	Installed according to approved plans and specifications.	/	=X	
DPWS-516-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-516-03	Terminal lugs are grip insulated.	/	X	
DPWS-516-04	Conformance to proper wirings, markings, tags and ties.	/	X	
DPWS-516-05	Installed materials are free from damage.	/	X	
DPWS-516-06	Approved as-built drawings maintained.	/	X	
		/	X	
Item 517 Surge	/Lightning Arrester			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
DPWS-517-01	Installed according to approved plans and specifications.	/	=X	
DPWS-517-02	Conducted and passed the required tests.	/	X	
Minor				
			Х	
DPWS-517-03	Installed materials are free from damage.	/	=	
DPWS-517-03 DPWS-517-04	Installed materials are free from damage. Discharge counter and cable are properly braced and connected to ground mat.	/	=X	
	Discharge counter and cable are properly braced and	/ / /	=	
DPWS-517-04	Discharge counter and cable are properly braced and connected to ground mat.	/ / / /	=X	
DPWS-517-04 DPWS-517-05	Discharge counter and cable are properly braced and connected to ground mat.	/ / / /	=X	CAR Total
DPWS-517-04 DPWS-517-05 Vas subcontracto	Discharge counter and cable are properly braced and connected to ground mat. Approved as-built drawings maintained.	/ / / /	=X =X =X =X	CAR Total
DPWS-517-04 DPWS-517-05 Vas subcontracto	Discharge counter and cable are properly braced and connected to ground mat. Approved as-built drawings maintained. or used? If yes, name of company and owner:	/ / /	=X =X =X =X Total Score (a)	CAR Total

PROJECT NO.:	PROJECT TYPE: Diesel Power Plant	ľ
VISIT	LOCATION:	

ITEM: Equipment Installation DATE OF VISIT: //

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 518 Uninte	erruptible Power Supply			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
DPWS-518-01	Installed according to approved plans and specifications.	/	X	
DPWS-518-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-518-03	Seismic anchor and clamping device are fixed to foundation.	/	X	
DPWS-518-04	Termination of conductors to terminal blocks are provided with terminal lugs, insulated and gripped.	/	X	
DPWS-518-05	Conformance to proper wirings, markings, tags and ties.	/	X	
DPWS-518-06	No splicing of wires.	/	X	
DPWS-518-07	Maximum of two lines are connected to one terminal block point.	/	X	
DPWS-518-08	Approved as-built drawings maintained.	/	X	
Item 519 Storag	ge Battery			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
DPWS-519-01	Installed according to approved plans and specifications.	/	X	
DPWS-519-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-519-03	Battery racks are free from rust/corrosion.	/	X	
DPWS-519-04	Current carrying parts are properly insulated.	/	X	
DPWS-519-05	No damage/defect in any material.	/	X	
DPWS-519-06	Battery rooms are properly ventilated with exhaust fan and sealed to prevent entry of dust.	/	X	
DPWS-519-07	Approved as-built drawings maintained.	/	X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	

PROJECT NO.:	PROJECT TYPE: Diesel Power Plant	ITE
VISIT	LOCATION:	C

TEM: <u>Equipment Installation</u> DATE OF VISIT: <u>//</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 520 Batter	Item 520 Battery Charger			
Major				
DPWS-520-01	Installed according to approved plans and specifications.	/	X	
DPWS-520-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-520-03	Conformance of wiring to required bending radius.	/	=X	
DPWS-520-04	Cable clamps are uniformly spaced.	/	X	
DPWS-520-05	Terminal lugs are grip insulated.	/	X	
DPWS-520-06	Installed materials are free from damage.	/	X	
DPWS-520-07	Approved as-built drawings maintained.	/	X	
		/	X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			Rate =	

PROJECT NO.:	PROJECT TYPE: Diesel Power Plant	٦I
VISIT	LOCATION:	

ITEM: <u>Equipment Installation</u> DATE OF VISIT: <u>//</u>

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 521 Grour	nding System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
DPWS-521-01	Installed according to approved plans and specifications.	/	X	
DPWS-521-02	Grounding connections are properly welded through exothermic process.	/	X	
DPWS-521-03	Overhead ground wire are properly strung according to specified tension and sag.	/	=X	
DPWS-521-04	Conducted and passed all required ground resistance tests.	/	=X	
Minor				
DPWS-521-03	Overhead ground wire are properly strung according to specified tension and sag.	/	=X	
DPWS-521-04	Conducted and passed all required ground resistance tests.	/	=X	
DPWS-521-05	Ground rods installed according to approved plans.	/	=X	
DPWS-521-06	Grounding trenches are excavated according to specified depth and width.	/	=X	
DPWS-521-07	Provision of bedding materials for ground wire.	/	=X	
DPWS-521-08	Ground leads are properly supported by clamps at specified intervals.	/	X	
DPWS-521-09	Shield wires and accessories are protected by specified corrosion inhibitor.	/	X	
DPWS-521-10	Steel structures with insulators or apparatus are properly connected to the ground mat.	/	=X	
DPWS-521-11	Structures with more than one leg are properly connected to the ground mat with risers at minimum of 2 different points.	/	X	
DPWS-521-12	Switchyard equipment are properly grounded to two different points of the ground mat.	/	X	
DPWS-521-13	Lighting poles and other metal structures are properly connected to ground mat.	/	=X	
DPWS-521-14	Cable trays, ladder, fence and gates are properly connected to ground mat.	/	X	
DPWS-521-15	Test boxes are installed properly and connected to ground mat.	/	=X	
DPWS-521-16	Approved as-built drawings maintained.	/	=X	
		/	=X	
	or used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Intered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate	

PROJECT NO.:	PROJECT TYPE: Diesel Power Plant	ITE
VISIT	LOCATION:	ļ

TEM: <u>Equipment Installation</u> DATE OF VISIT: <u>//</u>

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 522 Bus Co	onductors and Hardwares			
Major				
DPWS-522-01	Installed according to approved plans and specifications.	/	X	
DPWS-522-02	Conducted and passed the required tests.	/	=X	
Minor				
DPWS-522-03	Conductors are free from copper dust and particles.	/	X	
DPWS-522-04	No damage/defective members.	/	X	
DPWS-522-05	Connectors/Terminal pad are equipped with approved type of bolts, nuts, flat washer and bevelled washers.	/	=X	
DPWS-522-06	Terminal connectors are free from burrs, edges, fillet, damage and cracks.	/	=X	
DPWS-522-07	Approved as-built drawings maintained.	/	X	
		/	X	
Item 523 Gantr	es, Steel Structures and Supports			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
DPWS-523-01	Conformance with the approved Erection Drawings and installation methodologies.	/	=X	
DPWS-523-02	Templates are used for setting anchor bolt system.	/	X	
Minor				
DPWS-523-03	Connections are properly secured by bolts, nuts, locknuts and washers.	/	X	
DPWS-523-04	Stitch bolts are used in connecting double angle members.	/	X	
DPWS-523-05	Correct direction and bolt position of bolt insertion.	/	X	
DPWS-523-06	Conformance with specified tolerances for plumbness and alignment.	/	X	
DPWS-523-07	No damage/defective structural members.	/	=X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a) No. of Indicators (b)	CAR Total
	Date: / /	_	Rate = (a) / (b)	

PROJECT NO.:	PROJECT TYPE: Diesel Power Plant	ľ
VISIT	LOCATION:	

ITEM: <u>Equipment Installation</u> DATE OF VISIT: //

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action / Monitor
Item 524 Power	r / Control / Instrumentation Cables			
Major				
DPWS-524-01	Installed according to approved cable schedule.	/	X	
DPWS-524-02	Conducted and passed required tests.	/	X	
Minor				
DPWS-524-03	Cables are properly installed and placed in conduits, cable trays and trenches.	/	X	
DPWS-524-04	Cables not yet terminated are properly sealed to prevent moisture entering into the cable.	/	X	
DPWS-524-05	Conformance to proper wirings, markings, tags and ties.	/	=X	
DPWS-524-06	No splicing along trays and trench.	/	X	
DPWS-524-07	Termination of conductors to terminal blocks are provided with terminal lugs, insulated and gripped.	/	X	
DPWS-524-08	Approved as-built drawings maintained.	/	X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /	_	Rate = (a) / (b) =	
			Rate =	Ĭ

PROJECT NO.:	PROJECT TYPE: Diesel Power Plant	ľ
VISIT	LOCATION:	

ITEM: Equipment Installation DATE OF VISIT: //

Sub-item Code	INDICATORS *Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action / Monitor
Item 525 Cond	uits and Cable Tray System			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
DPWS-525-01	Installed according to approved plans and specifications.	/	X	
DPWS-525-02	Conducted and passed the required tests.	/	X	
Minor				
DPWS-525-03	Conduit ends are reamed and smoothened before jointing.	/	=X	
DPWS-525-04	Provision of plug and fillers.	/	=X	
DPWS-525-05	Provision of coupling and bends.	/	=X	
DPWS-525-06	Provision of spacers, inserts and ties for conduits.	/	X	
DPWS-525-07	Provision of stow enamel coating inside conduits.	/	X	
DPWS-525-08	Provision of rigid metal expansion joints where required.	/	X	
DPWS-525-09	Cable trays, accessories and fittings are smooth, free from defects and sharp edges.	/	X	
DPWS-525-10	Trays are properly installed and supported as per plan.	/	=X	
DPWS-525-11	Provision of adequate support on vertical cable runs.	/	X	
DPWS-525-12	Multi core cables are clamped to the racks.	/	X	
DPWS-525-13	Conformance to required leveling and alignment of all installed materials	/	=X	
DPWS-525-14	Conformance to grounding connections.	/	=X	
DPWS-525-15	Cables are adequately supported by racks and clamps, if it is not feasible to support cables by means of tray.	/	=X	
DPWS-525-16	Approved as-built drawings maintained.	/	=X	
		/	=X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
intered by:	Date: / /		Rate = (a) / (b) =	
			Rate	1

PROJECT TYPE: Mooring Facilities ITEM: Site Development and PROJECT ID/NO.: _____ for Power Barges LOCATION: ____

Rockworks

VISIT

DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

actor. During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).		Score x factor	Action Monitor
Item 100 Site I				
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ior Defect	\$	
MFWS-100-01	Accurate establishment of Boundary of Site and Area of Development		X	
MFWS-100-02	Precise establishment of benchmark and geodetic controls	/	X	
MFWS-100-03	Conformance to the exact location of required mooring structures as shown in the drawings.	/	x	
MFWS-100-04	Proper removal of structures, rocks, boulders, non-perisable solid objects and other obstructions.(If there are any.)	/	=x	
	reakwater, Bulkhead, Causeway, Jetty Groin, Shore, ks, i.e., slope protection (riprap, rubble, stone masonry)		-	
-	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma Conformance to the cross-sectional dimensions as per design and	jor Derect		
MFWS-101-01	specifications	/	=X X	
MFWS-101-02	Conformance to the design elevations	/	=^	
MFWS-101-03	Conformance to the side slopes or berm as per design and specifications	/	X	
MFWS-101-04	Conformance to the location as per design and specifications	/	X	
MFWS-101-05	Conformance to the alignment as per design and specifications	/	=X	
MFWS-101-06	Conformance to the rock placement methodology and/or construction methodology	/	X	
MFWS-101-07	Compliance/conformance to the designed foundation, e.g. toe	/	X	
Minor				
MFWS-101-01	Conformance within approved/specified tolerance for cross-section	/	X	
MFWS-101-02	Conformance within approved/specified tolerance for elevation	/	X	
MFWS-101-08	Conformance within approved/specified tolerance for alignment	/	X	
MFWS-101-09	Provision of adequate bedding as required	/	X	
MFWS-101-10	Non-occurrence of displaced/sucked-out rocks	/	X	
MFWS-101-11	Conformance within approved/specified tolerance of in-between gaps for rocks in-place	/	X	
MFWS-101-12	Provision of settlement plates/blocks	/	X	
		/	=x	
Nas subcontracto	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
	u			

Entered by:_____

Rate = (a) / (b)

PROJECT ID/NO.: _____ PROJECT TYPE: Mooring Facilities ITEM: Gabion/Rockworks for Power Barges LOCATION:

VISIT

DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

____VISIT

LOCATION: _

DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for	Results	Score x factor	Action Monitor
	that specific item of work is zero (0).			
Item 102 Gabio	ns/Mattresses			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defect	ts	
MFWS-102-01	Conformance to the cross-sectional dimensions as per design and specifications	/	X	
MFWS-102-02	Conformance to the design elevations	/	X	
MFWS-102-03	Conformance to the location as per design and specifications	/	X	
MFWS-102-04	Conformance to the alignment as per design and specifications	/	=X	
MFWS-102-05	Conformance to the wire mesh cage fabrication requirements (alignment, lapping, etc.)	/	=X	
MFWS-102-06	Proper construction methodology, e.g., placing of rock fill materials, lapping and twisting of mesh wire	/	=X	
MFWS-102-07	Conformance to minimum density requirements (in kg./cu.m.) for filled gabions	/	=X	
		/	X	
		/	X	
		/	X	
Minor				
MFWS-102-01	Conformance within the approved/specified tolerance for cross- sectional dimensions	/	X	
MFWS-102-02	Conformance within the approved/specified tolerance for elevations	/	=X	
MFWS-102-04	Conformance within the approved/specified tolerance vs. the actual alignment	/	=X	
MFWS-102-08	Provision of adequate bedding as required	/	=X	
		/	=X	
Nas subcontracto	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	
				l

PROJECT ID/NO.:	PROJECT TYPE: Mooring Facilities	ITEM:	Concrete Pilesworks
	for Power Barges		
VISIT	LOCATION:	DATE (OF VISIT: / /

	INDICATORS			I
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 103 Reinfo	rced Concrete Piles			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defect	S	
MFWS-103-01	Conformance to the cross-sectional dimensions as per design and specifications	/	X	
MFWS-103-02	Conformance to the design length as per design and specifications	/	X	
MFWS-103-03	Conformance to the minimum required embedment of spliced joint	/	X	
MFWS-103-04	Use of metal collar and/or protective caps during driving	/	X	
MFWS-103-05	Attainment of required pile penetration/bearing capacity	/	X	
MFWS-103-06	Pile shoe is provided for each pile	/	=X	
MFWS-103-07	Conformance to required number of piles supplied and driven in- place	/	X	
MFWS-103-08	Lifting of each pile is at designed lifting points	/	X	
MFWS-103-09	Vertical piles are driven plumb	/	X	
MFWS-103-10	Batter piles are driven in accordance with the designed slope	/	X	
		/	=X	
		/	X	
Minor		/	×	
MFWS-103-01	Conformance within the approved/specified tolerance for dimension	/	X	
MFWS-103-02	Conformance within the approved/specified tolerance for pile length	/	X	
MFWS-103-09	Conformance within the approved/specified tolerance for plumbness/verticality	/	=X	
MFWS-103-10	Conformance within the approved/specified tolerance for slope of the batter piles	/	X	
MFWS-103-11	Proper graduation/markings	/	X	
MFWS-103-12	Steel lifting hooks are cut-off and applied with approved type of sealant	/	X	
MFWS-103-13	Alignment of the piles driven in-place are within the approved/specified tolerance	/	X	
MFWS-103-14	Pile cut-off elevations are chipped-off properly. Free from excessive chipping below the cut-off elevations	/	=X	
		/	X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____ PROJECT TYPE: Mooring Facilities ITEM: Timber Pilesworks for Power Barges

____VISIT

LOCATION: _____

DATE OF VISIT: / /

Factor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 104 Timbe	r/Wooden Piles			
Major	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defect	S	
MFWS-104-01	Conformance to the cross-sectional dimensions as per design and specifications	/	=X	
MFWS-104-02	Conformance to the design length as per design and specifications	/	=X	
MFWS-104-03	Use of metal collar and/or protective caps during driving	/	X	
MFWS-104-04	Attainment of required pile penetration/bearing capacity	/	X	
MFWS-104-05	Conformance to the required number of piles supplied and driven in- place	/	X	
MFWS-104-06	Lifting is at designated lifting points of each pile	/	X	
MFWS-104-07	Vertical piles are driven plumb	/	X	
MFWS-104-08	Batter piles are driven in accordance with the designed slope	/	X	
MFWS-104-09	No massive splitting is visible perpendicular to the pile length	/	X	
		/	=X	
		/	=X	
Minor				
MFWS-104-01	Conformance within the approved/specified tolerance for dimension	/	X	
MFWS-104-02	Conformance within the approved/specified tolerance for pile length	/	X	
MFWS-104-07	Conformance within the approved/specified tolerance for plumbness/verticality	/	X	
MFWS-104-08	Conformance within the approved/specified tolerance for slope of the batter piles	/	X	
MFWS-104-10	Proper graduation/markings	/	X	
MFWS-104-11	Alignment of the piles driven in-place are within the approved/specified tolerance	/	X	
MFWS-104-12	Pile butt is free from brooming	/	=X	
		/	=X	
	r used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
			= Rate = (a) / (b)	
			Rate = (a) 7 (b)	
			=	

PROJECT ID/NO.: _____ PROJECT TYPE: Mooring Facilities ITEM: Steel Pilesworks for Power Barges

VISIT

LOCATION:

DATE OF VISIT: / /

х

х

х

х

CAR Total

Total Score (a)

No. of Indicators (b)

Rate = (a) / (b)

Rate

/

1

1

/

Action

Monitor

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS Score Note: Spots with a single major defect shall forfeit all points for the rest of Sub-item Code the indicators in the said spot. Further, if the number of complying spots is Results x factor less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Item 105 Steel Piles Major* * Refer to Section 11.4.a of the CPES Guidelines for definition of Major Defects Conformance to the cross-sectional dimensions as per design and х MFWS-105-01 1 specifications _X_ MFWS-105-02 Conformance to the design length as per design and specifications / х / MFWS-105-03 Use of metal collar and/or protective caps during driving х MFWS-105-04 Attainment of required pile penetration/bearing capacity 1 Conformance to the splicing requirements as per design and х MFWS-105-05 / specifications Conformance to required number of piles supplied and driven in-_X_ MFWS-105-06 / place х Lifting of each pile is at designed lifting points MFWS-105-07 / х MFWS-105-08 Vertical piles are driven plumb 1 х MFWS-105-09 Batter piles are driven in accordance with the specified slope / _X_ 1 MFWS-105-10 Driven piles are free from massive dents or damages х MFWS-105-11 Each pile is properly applied with protective coating as required 1 х 1 х 1 Minor х MFWS-105-01 Conformance within the approved/specified tolerance for dimension 1 _X_ MFWS-105-02 / Conformance within the approved/specified tolerance for pile length Conformance within the approved/specified tolerance for х MFWS-105-08 1 plumbness/verticality Conformance within the approved/specified tolerance for slope of X MFWS-105-09 1 the batter piles х MFWS-105-12 / Proper graduation/markings Alignment of the piles driven in-place are within the _X_ MFWS-105-13 1 approved/specified tolerance

Was subcontractor used? If yes, name of company and owner:

established pile cut-off elevations

Entered by:_____

MFWS-105-14

Pile cut-off are properly cut with appropriate cutting outfits at the

PROJECT ID/NO.: _____ PROJECT TYPE: Mooring Facilities for Power Barges

ITEM: Dolphins and Bitts/ **Bollards**

Rate

VISIT

LOCATION:

DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS Score Note: Spots with a single major defect shall forfeit all points for the rest of Action Sub-item Code the indicators in the said spot. Further, if the number of complying spots is Results x factor Monitor less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Item 106 Breasting and Mooring Dolphins * Refer to Section 11.4.a of the CPES Guidelines for definition of Major Defects Major х MFWS-106-01 Adherence to proper construction methodology. 1 Conformance to exact location and relative position with reference Χ_ MFWS-106-02 1 to the power barge as shown in the site development plan. х / MFWS-106-03 Conformance to the required size and number of piles driven. Comformance to the correct section, dimensions and elevation of х 1 MFWS-106-04 pile caps. x 1 Minor Conformance within the approved/specified tolerance for dimension х MFWS-106-05 / within the approved/specified tolerance Conformance for x MFWS-106-06 1 olumbness/verticality Conformance within the approved/specified tolerance for slope of х 1 MFWS-106-07 the batter piles х 1 Item 107 Bitts/Cleats/Bollards Major * Refer to Section 11.4.a of the CPES Guidelines for definition of Major Defects Conformance to the required supply and installation of bitts, cleats х MFWS-107-01 1 and bollards as per plans and specifications Conformance to the required number of anchor bolts, nuts and х MFWS-107-02 1 washers in accordance with the plans and specifications Conformance to pedestal/foundation requirements in accordance х MFWS-107-03 / with the plans and specifications Conformance to the anchoring/embedment requirements of the х MFWS-107-04 1 anchor bolts Conformance to the required number and location of bitts, cleats х / MFWS-107-05 and bollards as per plans and specifications Conformance to the type and installation requirements for sealers of _X_ MFWS-107-06 1 anchor bolts and nuts х MFWS-107-07 Non-occurrence of corrosion / х 1 Minor Conformance to pedestal/foundation within the approved/specified х MFWS-107-03 1 tolerances _X_ MFWS-107-07 Non-occurrence of rust / Supplied/installed mooring fixtures and accessories within the х MFWS-107-08 / approved/specified tolerances х / CAR Total Total Score (a) Was subcontractor used? If yes, name of company and owner: _____ & ____ No. of Indicators (b) Date: / / Entered by:_____ Rate = (a) / (b)

PROJECT ID/NO.: _____ PROJECT TYPE: Mooring Facilities for Power Barges ____VISIT LOCATION: _____

ITEM: Take- Off Structures and Fenders

DATE OF VISIT: / /

INDICATORS			
the indicators in the said spot. Further, if the number of complying spots is	Results	Score x factor	Action Monitor
ff Structures			
* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defect	S	
elevations.of the structures.	/	=X	
pile caps.	/	=X	
Conformance to the design plumbness and inclination (batter) of the driven piles shown in the drawings.	/	=X	
	/	=X	
Conformance within the approved/specified tolerance for dimension	/	X	
Conformance within the approved/specified tolerance for plumbness/verticality	/	X	
Conformance within the approved/specified tolerance for slope and batter.	/	X	
	/	X	
	/	=X	
r Fender			
		S	
Conformance with the cross-sectional dimensions per design and specifications	/	=X	
specifications	/	=X	
transport and handling	/	=X	
Installation in accordance with the locations as per design and specifications	/	=X	
Installation in accordance with the designed elevation	/	=	
Proper alignment of installed fenders	/	=	
Complete installation of fixtures and accessories	/	=	
	/	=	
	/	=X	
	/	=X	
r used? If yes, name of company and owner:	/	= Total Score (a) =	CAR Total
r used? If yes, name of company and owner:	/	=	CAR Total
	/	= Total Score (a) =	CAR Total
	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). ff Structures * Refer to Section 11.4.a of the CPES Guidelines for definition of Ma Comformance to the design configuration dimensions and elevations of the structures. Conformance to the correct section, dimensions and elevation of pile caps. Conformance to the design plumbness and inclination (batter) of the driven piles shown in the drawings. Conformance within the approved/specified tolerance for dimension Conformance within the approved/specified tolerance for slope and batter. r Fender * Refer to Section 11.4.a of the CPES Guidelines for definition of Ma Conformance within the approved/specified tolerance for slope and batter. The section 11.4.a of the CPES Guidelines for definition of Ma Conformance within the approved/specified tolerance for slope and batter. r Fender * Refer to Section 11.4.a of the CPES Guidelines for definition of Ma Conformance with the cross-sectional dimensions per design and specifications Conformance to the required diameter/ length as per design and specifications Free from damages such as chipped-off edges, etc. during transport and handling Installation in accordance with the locations as per design and specifications Installation in accordance with the designed elevation Proper alignment of installed fenders	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Results * Refer to Section 11.4.a of the CPES Guidelines for definition of Major Defect Comformance to the design configuration dimensions and elevations of the structures. / Comformance to the correct section, dimensions and elevation of pile caps. / Conformance to the design plumbness and inclination (batter) of the driven piles shown in the drawings. / Conformance within the approved/specified tolerance for dimension / Conformance within the approved/specified tolerance for slope and batter. / / / Conformance within the approved/specified tolerance for slope and batter. / / / / / / / / / / / Conformance within the approved/specified tolerance for slope and batter. / / / / / / / / / / / Conformance within the approved/specified tolerance for slope and batter. / <tr< td=""><td>Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Results Score * Refer to Section 11.4.a of the CPES Guidelines for definition of Major Defects </td></tr<>	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0). Results Score * Refer to Section 11.4.a of the CPES Guidelines for definition of Major Defects

PROJECT ID/NO.:	PROJECT TYPE: Mooring Facilities for Power Barges	ITEM: Reclamation/Dredging /Form Works
VISIT	LOCATION:	DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

	INDICATORS		Coore	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 110 Reclar	nation Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defect	S	
MFWS-110-01	Excavation/displacement of unsuitable materials to required depth	/	X	
MFWS-110-02	Conformance to lines and grades as per plans and specifications	/	X	
MFWS-110-03	Use of suitable filling materials	/	X	
MFWS-110-04	Conformance to the required compaction as per specifications	/	x	
MFWS-110-05	Unsuitable materials are properly disposed to the approved disposal sites	/	X	
MFWS-110-06	Installed approved surcharge materials, drain materials	/	X	
MFWS-110-07	Provision of drainage for surface run-off	/	X	
		/	X	
tem 111 Dredgi	ng Works			
/lajor*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defect	S	
MFWS-111-01	Conformance to the dredging limits or areas to be dredged	/	=X	
MFWS-111-02	Conformance to the dredged depth as per plans and specifications	/	X	
MFWS-111-03	Conformance to the appropriate dredging and support equipments as per specifications	/	X	
MFWS-111-04	Proper disposal of dredged materials to the designated disposal area/site	/	X	
Minor				
MFWS-111-02	Conformance to the allowable or approved tolerance for dredged depth	/	=X	
MFWS-111-05	Marking buoys evident on designated areas to be dredged	/	=X	
tem 112 Form \	Norks			
/lajor*	* Refer to Section 11.4.a of the CPES Guidelines for definition o	f Major D	efects	
MFWS-112-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	=X	
MFWS-112-02	Forms coated with mould oil as required	/	=X	
MFWS-112-03	Sufficient bracing/support provided	/	=X	
MFWS-112-04	No loose knots, splits, cracks, etc.	/	X	
	Provision of required concrete or steel spacer	/	=X	
MFWS-112-05				
MFWS-112-05 MFWS-112-06	Conformance to dimensions, location, plumbness and alignment	/	=X	
	Conformance to dimensions, location, plumbness and alignment Provision of camber during construction stage	/	=X =X	
MFWS-112-06		-	=	
MFWS-112-06 MFWS-112-07		/	=X	CAR Total
MFWS-112-06 MFWS-112-07	Provision of camber during construction stage	/	=X =X =X	CAR Total

PROJECT TYPE: Mooring Facilities PROJECT ID/NO.: _____

VISIT

for Power Barges LOCATION:

ITEM: Reinforcing Bars and Concrete Works DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

concrete)				
<i>Major*</i>	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma Conformance of in-placed materials accoding to plans &	jor Defec	1	
MFWS-113-01	specifications	/	=X	
MFWS-113-02	Non-appearance of corrosion on steel reinforcement	/	X	
Minor				
MFWS-113-02	Non-appearance of rust on steel reinforcement	/	=X	
MFWS-113-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	X	
MFWS-113-04	No sign of oil, paint and other deleterious materials on reinforcements	/	=X	
MFWS-113-05	Conformance to jointing requirement, i.e. splicing, welding, etc.	/	X	
MFWS-113-06	Conformance to the required installation of ducktube e.g. (spacing, location and distance)	/	=X	
MFWS-113-07	Conformance to the required steel plate and lock	/	X	
MFWS-113-08	Conformance to the number of bundles of tendons and number of pieces of bundles of tendons	/	X	
		/	=X	
tem 114 Concr	ete Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defec	1	
MFWS-114-01	No through cracks	/	X	
MFWS-114-02	No honeycomb or spalling (no exposed rabars/aggregates)	/	X	
MFWS-114-03	No chipping off of concrete cover	/	X	
MFWS-114-04	Proper and adequate vibration	/	X	
MFWS-114-05	Conformance to finishing/plastering requirement	/	=X	
MFWS-114-06	Conformance to the required concrete cover for rebars	/	X	
MFWS-114-07	Conformance to the batching, mixing, transporting and discharge time requirements	/	=X	
MFWS-114-08	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	X	
MFWS-114-09	Conformance to the jointing requirement	/	=X	
MFWS-114-10	Proper curing	/	X	
MFWS-114-11	Conformance to required dimensions, lines, grades/elevation locations and crown (for pier)	/	=X	
MFWS-114-12	Conformance to the required quality of concrete mix	/	X	
Minor				
MFWS-114-02	No honeycomb or spalling	/	X	
MFWS-114-13	No sagging or bulging	/	=X	
MFWS-114-14	No water ponding on bearing plates	/	=X	
MFWS-114-15	Conformance to elevation of expansion joints	/	=X	
Vas subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	

PROJECT ID/NO.: _____

VISIT

PROJECT TYPE: Mooring Facilities for Power Barges LOCATION:

ITEM: Catwalk/Piping/ Painting Works DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

ractor : "During	Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results	Score x factor	Action Monitor
	specific item of work is zero (0).			
	Ilk/Stair Landing/Ladder			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma Conformance to the correct dimesions as per design and	, i i i i i i i i i i i i i i i i i i i	ts X	
MFWS-115-01	specifications	/	=	
MFWS-115-02	Conformance to the required number of steps and risers	/	=X	
MFWS-115-03	Comformance as to the correct opening of wire mesh and the size of wire and GI Pipe handrails as shown in the drawings and in the specification.		X	
Minor	Conformance within the engraved/aposition televance for		~	
MFWS-115-01	Conformance within the approved/specified tolerance for dimensions	/	X	
	For reinforced concrete structure: refer to Common Items of Work - MFWS 112, 113 and 114	/	=X	
		/	=X	
Item 116 Piping) Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	•	ts	
MFWS-116-01	Comformance to the correct alignment, position, location and elevation.	/	=X	
MFWS-116-02	Conformance to the required height and dimensions as indicated in the drawings and specifications.	/	X	
MFWS-116-03	Comformance to the pedestal requirements in accordance with the plans and specifications	/	X	
MFWS-116-04	Conformance to the required number of anchor bolts and their embeddment length as indicated in the drawings and specifications.		X	
MFWS-116-05	Comformance to jointing and welding requirements in accordance with the plans and specifications	/	X	
Minor				
MFWS-116-01	Conformance within the approved/specified tolerance for alignment and locations	/	X	
		/	=X	
Item 117 Painti	ng Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	ajor Defec	ts	
MFWS-117-01	Surface prepared according to specifications	/	=X	
MFWS-117-02	Required neutralizers, etc. applied	/	=X	
MFWS-117-03	Applied paint appropriate to the surface	/	X	
MFWS-117-04	Specified number of coats applied	/	X	
MFWS-117-05	Surfaces evenly painted, proper opacity	/	X	
MFWS-117-06	No discoloration and peeling-off of paint	/	X	
MFWS-117-07	Paints conform to specification/requirements	/	X	
MFWS-117-08	Surface properly applied with putty/patching compound	/	X	
Was subcontracto	r used? If yes, name of company and owner:	-	Total Score (a) =	CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b)	
			=	

PROJECT ID/NO.: _____

PROJECT TYPE: Mooring Facilities

ITEM: Electrical Works

____VISIT

for Power Barges LOCATION: _

DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 118 Electri	cal Works			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma		S	
MFWS-118-01	Conduits installed according to plans and laid out according to approved construction drawings	/	=X	
MFWS-118-02	Pipes, hangers, boxes, gutters, cable trays properly installed and painted, sharp edges of pipes removed	/	=X	
MFWS-118-03	Pipes properly bended	/	=X	
MFWS-118-04	Allowable number of wires in a pipe properly observed	/	=X	
MFWS-118-05	Splicing and connection provided with adequate rubber and pvc tapes	/	X	
MFWS-118-06	Adequate length of wire provided for termination and splicing	/	X	
MFWS-118-07	Wire color coding complied and observed	/	X	
MFWS-118-08	Wire insulation not damaged during pulling	/	=X	
MFWS-118-09	Adequate number, correct size and gauge of pull boxes installed and properly covered	/	=X	
MFWS-118-10	Boxes and enclosures provided according to intended purpose	/	X	
MFWS-118-11	Fittings and accessories provided and properly installed	/	X	
MFWS-118-12	Block-outs and sleeves provided and properly secured	/	X	
MFWS-118-13	Cable ties provided	/	=X	
MFWS-118-14	Blank covers provided for outlets and switches that are not utilized	/	=X	
MFWS-118-15	Use of tools and equipment properly observed	/	=X	
MFWS-118-16	Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages	/	=X	
MFWS-118-17	Meager, clamp, phase sequence tests and load test conducted	/	=X	
MFWS-118-18	Shop drawings, as-built plan maintained	/	=X	
		/	=X	
		/	X	
	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b)	
			I=	

PROJECT ID/NO.: _____ PROJECT TYPE: Mooring Facilities ITE for Power Barges

ITEM: Grounding System

____VISIT

LOCATION: _____

DATE OF VISIT: / /

Sub-item Code	INDICATORS Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 119 Groun	ding System			
Major*	* Refer to Section 11.4.a of the CPES Guidelines for definition of Ma	jor Defects	S	
MFWS-119-01	Installed according to approved plans and specifications	/	=X	
MFWS-119-02	Grounding connections are properly welded/bolted	/	=X	
MFWS-119-03	Conducted and passed all required ground resistance tests.	/	X	
		/	=X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	=X	
		/	=X	
Was subcontracto	r used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)	
Entered by:	Date: / /		Rate = (a) / (b) = Rate	

PROJECT ID/NO.:	_ PROJECT TYPE: Site Development	ITEM:
VISIT	LOCATION/LOT:	DATE OF VISIT: / /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 100 Cleari	ng and Grubbing			
SDWS-100-02	Conformance to the approved/specified tolerance for extent of clearing and grubbing work.	/	X	
		/	X =	
ltem 101 Excav	ation			
SDWS-101-01	Conformance to the approved/specified tolerances for lines, grades, dimensions, elevations	/	X	
SDWS-101-02	Conformance to the excavation support systems, e.g. angle of repose, bracing, shoring, sheet piling	/	X	
ltem 102 Earth	fill			
SDWS-102-01	Conformance of in-placed materials to plans and specifications	/	X =	
SDWS-102-02	Conformance to the required thickness of fill or backfill per layer	/	X	
SDWS-102-03	Conformance to the required density or degree of compaction	/	X	
Item 103 Plant	ing of Trees and Shrubs			
SDWS-103-01	Conformance to the specified plant specie, variety and culture.	/	X	
SDWS-103-02	Conformance to the specified topsoil/ garden soil and other soil mixtures and fertilizers.	/	X	
SDWS-103-03	Conformance to the required/ specified supports (e.g. stakes, guy wires, temporary fence, etc.)	/	X	
SDWS-103-04	Conformance to the specified quantity, spacings and minimum size (during delivery and nursery stage).	/	X =	
SDWS-103-05	Conformance to the specified planting methodology and handling.	/	X	
SDWS-103-06	Plants are free of damages, disease, insect pests and dying branches, leaves and branch tips).	/	X =	
		/	X =	
	tor used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b	CAR Total
	🎽 Date:	/ /	= Rate= (a) / (b)	,

PROJECT ID/NO.: _____ _____VISIT

PROJECT TYPE: Site Development LOCATION: _____

ITEM: Common Items of Work DATE OF VISIT: / /

	INDICATORS		Score	
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Action Monitor
Item 200 Form	works			
SDWS-200-01	Conformance to the required type of formworks in accordance with approved shop/working drawings	/	X	
SDWS-200-02	Forms coated with mould oil as required	/	X	
SDWS-200-03	Sufficient bracing/support provided	/	X	
SDWS-200-04	No loose knots, splits, cracks, etc.	/	X	
SDWS-200-05	Provision of required concrete or steel spacer	/	X	
SDWS-200-06	Conformance to dimensions, location, plumbness and alignment	/	X	
SDWS-200-07	No use of dilapidated/salvage forms (use more than 3x)	/	X	
		/	X =	
		/	X	
Item 201 Reinfo Stressed conci	prcing Steel Bars (including tendons for Pre/Post-		_	
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Maior De	efects	
SDWS-201-01	Conformance of in-placed materials to plans & specifications	/	X	
SDWS-201-02	Non-appearance of corrosion on steel reinforcement	/	= X	
Minor			=	
SDWS-201-02	Non-appearance of rust on steel reinforcement	/	X	
SDWS-201-03	Conformance to approved bar cutting schedule, proper spacing, anchorage, adequate reinforcements	/	X	
SDWS-201-04	No sign of oil, paint and other deleterious materials on reinforcements	/	X	
SDWS-201-05	Conformance to jointing requirement, i.e.splicing, welding, etc.	/	X	
SDWS-201-06	Conformance to proper bending of stirrups	/	X =	
		/	X	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		– Total Score (a)	CAR Total
	&		No. of Indicators (b)
Entered by:	Date: / /		Rate = (a) / (b)	
			= Rate	
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____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Site Development ITEM: Common Items of Work LOCATION: _____

DATE OF VISIT: / /

Rate

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 300 Concr	ete Works			
Major*	* Refer to Section 11.4a of the CPES Guidelines for definition of	of Major De	efects	
SDWS-300-01	No through cracks	/	X	
SDWS-300-02	No honeycomb (no exposed rebars/aggregates)	/	X	
SDWS-300-03	No sagging or bulging (if tolerance exceeded)	/	X	
SDWS-300-04	Conformance to required quality of concrete mix	/	X	
Minor				
SDWS-300-01	No cracks	/	X =	
SDWS-300-02	No honeycomb	/	X	
SDWS-300-03	No sagging or bulging	/	X	
SDWS-300-05	Proper and adequate vibration	/	X	
SDWS-300-06	Conformance to finishing/plastering requirement	/	X	
SDWS-300-07	No chipping off of concrete cover	/	X	
SDWS-300-08	Conformance to the required concrete cover for rebars	/	X	
SDWS-300-09	Conformance to the batching, mixing, transporting and discharge time requirements	/	X	
SDWS-300-10	Conformance to placing requirement that will not result segregation of aggregates, cold joints and misalignment	/	X	
SDWS-300-11	Conformance to the jointing requirement	/	X	
SDWS-300-12	Proper curing	/	X	
SDWS-300-13	Conformance to required dimensions, lines, grades/elevation, and location	/	X	
		/	X =	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:		Total Score (a)	CAR Total
	&		No. of Indicators (b)
Entered by:	Date: / /		Rate = (a) / (b)	

 PROJECT ID/NO.:
 PROJECT TYPE: Site Development
 ITEM: Ma

 _____VISIT
 LOCATION:
 DATE OF

ITEM: Masonry Works
DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 301 CHB V	Vall			
Major				
SDWS-301-01	Conformance to required quality of CHB	/	X =	
SDWS-301-02	Conformance to required quality of mortar mix	/	X	
Minor				
SDWS-301-03	Conformance to specified tolerances for dimension, location, plumbness and alignment	/	X =	
SDWS-301-04	Proper spacing of horizontal and vertical bars	/	X =	
SDWS-301-05	Rebars used free from corrosion	/	X	
		/	X	
		/	X	
		/	X	
Mas subcontrac	tor used? If yes, name of company and owner:	I	Total Score (a)	CAR Total
			= No. of Indicators (b) -	
Entered by:	Date: / /		= Rate = (a) / (b)	
			= Rate	

PROJECT ID/NO.:	PROJECT TYPE: Site Development	ITEM:	
VISIT	LOCATION:	DATE OF VISIT:	/ /

Factor : "During Construction" = 0.40; "Upon Completion" = 0.50

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 400 Paver	Blocks/ Concrete Blocks			
SDWS-400-01	Installed blocks free from chipping, cracks or any form of damages and discoloration.	/	X	
SDWS-400-02	Conformance to specified sand bedding or compacted soil or base course.	/	X =	
SDWS-400-03	Joints are perfectly aligned and consistent	/	X	
SDWS-400-04	Blocks are evenly levelled to a tolerable extent	/	X	
SDWS-400-05	Conformance to specified perforation and water absorption method.	/	X	
SDWS-400-06	Block color are consistent with each other.	/	X	
		/	X	
ltem 401 Stam	ped Concrete			
SDWS-401-01	Adherence to the methodology and preparation.	/	X	
SDWS-401-02	Conformance with the design layout, pattern and color scheme.	/	X =	
SDWS-401-03	Conformance with the specified compaction and base course.	/	X	
SDWS-401-04	Free from any form of damages	/	X	
SDWS-401-05	Concrete material conform to specification and mixture/ proportion as per plan.	/	X =	
		/	X	
Item 402 Grass	Pavers			
SDWS-402-01	Installed pavers free from chipping, cracks or any form of damages and discoloration.	/	X	
SDWS-402-02	Conformance to specified sand bedding or compacted soil or base course.	/	X	
SDWS-402-03	Joints are perfectly aligned and consistent	/	X	
SDWS-402-04	Pavers are evenly levelled to a tollerable extent	/	X	
SDWS-402-05	Pavers color are consistent with each other	/	X	
	ctor used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b) =	
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PROJECT ID/NO.:	PROJECT TYPE: Site Development	ITEM:	
VISIT	LOCATION:	DATE OF VISIT:	/ /

	INDICATORS		· · · ·	
	Note: Spots with a single major defect shall forfeit all points for the rest of the		Score	Action
Sub-item Code	indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	x factor	Monitor
tem 403 Trowe	lled Finish/ Broomed Finish			
SDWS-403-01	Aherence to the desired roughness and consistency specified design pattern.	/	X	
SDWS-403-02	No cracks, discoloration and any form of damages.	/	X	
SDWS-403-03	No sign of deflection/settlement/ water ponding.	/	X	
SDWS-403-04	Adherence to the specified/ approved sand/ gravel base or sub-base course.	/	X =X	
		/	=	
Item 404 Pebbl				
SDWS-404-01	Installed pebbles are evenly distributed and selected according to size and color.	/	X	
SDWS-404-02	No cracks, discoloration and any form of damages.	/	X	
SDWS-404-03	Installed pebbles surface are thoroughly clean from cement or grout stains.	/	X	
		/	X	
		/	X	
Item 405 Decor	ative Boulders			
SDWS-405-01	Conforms to approved/specified size, shape and color/ shade according to plan.	/	X	
SDWS-405-02	Conforms to the approved design scheme/layout/pattern.	/	X	
SDWS-405-03	No cracks, chipping-off or any form of damages.	/	X	
SDWS-405-04	Correctly installed and put in place with stability, free of any movement.	/	X	
		/	X	
		/	X	
		/	X	
			× ×	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner:	/	=	CAR Total
	tor used? If yes, name of company and owner:	/	= Total Score (a) C	CAR Total
		/	= Total Score (a) = No. of Indicators (b)	CAR Total

PROJECT ID/NO.:	PROJECT TYPE: Site Development	ITEM:	
VISIT	LOCATION:	DATE OF VISIT:	/ /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 406 Garde	n Tile/ Stone Finish			
SDWS-406-01	Installed tiles free from chipping, cracks or any form of damages	/	X	
SDWS-406-02	Joints are perfectly aligned and consistent with skirting tiles.	/	X	
SDWS-406-03	Tiles are evenly placed/layed according to specified design pattern and color sheme.	/	X	
SDWS-406-04	Installed tiles are true to alignment and properly levelled.	/	X	
SDWS-406-05	Adherence to the specified/ approved sand/ gravel base or sub-base course.	/	X	
		/	X	
Item 407 Wall E	Bricks/ Stone Finish			
SDWS-407-01	Smooth and evenly bonded to wall.	/	X =	
SDWS-407-02	Free from cracks, chips, stains, discoloration and any form of damages.	/	X =	
SDWS-407-03	Installed according to specified size, shape, color/ shade type and design pattern.	/	X =	
Item 408 Plaste	er Finish			
SDWS-408-01	Conformance to designed mixture of plastering materials.	/	X =	
SDWS-408-02	Conformance to specified method of application and thickness.	/	X	
SDWS-408-03	True to alignment, plumbness and smoothness.	/	X =	
SDWS-408-04	Free from any form of damages e.g. cracks, peeled-off plaster finish	/	X =	
Item 409 Clado	ling			
SDWS-409-01	Panels properly anchored/ bonded to wall.	/	X =	
SDWS-409-02	True to alignment, plumbness and smoothness.	/	X =	
SDWS-409-03	Free from any form of damages	/	X	
SDWS-409-04	Panels conforms to construction procedure/ methodology.	/	X	
	tor used? If yes, name of company and owner:		Total Score (a) = No. of Indicators (b	CAR Total
	& Date: / /		Rate = (a) / (b)	,
			Rate =	

PROJECT ID/NO.:	PROJECT TYPE: Site Development	ITEM:	
VISIT	LOCATION:	DATE OF VISIT:	/ /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
tem 500 Paint	ing			
SDWS-500-01	Surface prepared according to paint specification.	/	X =	
SDWS-500-02	Required neutralizers, and paint preparation materials applied.	/	X	
SDWS-500-03	Surface are properly applied with putty/patching compound.	/	X	
SDWS-500-04	Applied paint appropriate to the surface.	/	X	
SDWS-500-05	Specified number of coats applied.	/	X	
SDWS-500-06	Surfaces evenly painted, proper opacity.	/	X	
SDWS-500-07	No discoloration and peeling-off of paint.	/	X	
SDWS-500-08	Paints conform to specification as to type and color.	/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X	
		/	X =	
		/	x	
		/	X =	
		/	X	
		/	x	
		/	X =	
		/	X =	
Vas subcontrac	tor used? If yes, name of company and owner:		Total Score (a) =	CAR Total
	&		No. of Indicators (b) =)
Entered by:	Date: / /		Rate = (a) / (b) =	
			– Rate	

PROJECT NO.: _____ ____VISIT PROJECT TYPE: Site Development LOCATION: _____

ITEM: DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 600 Play F	acilities			
SDWS-600-01	Conformance to the specified type, dimensions, quantities, color, etc. accoring to plans.	/	X	
SDWS-600-02	Installed/ fixed in place according to plan.	/	X =	
SDWS-600-03	Free from any form of unsafe and dangerous connections, installations, etc.	/	X =	
SDWS-600-04	Free from any form of damages.	/	X =	
		/	X	
		/	X	
Item 601 Trellis	/ Gazebo			
SDWS-601-01	Conformance to the specified type, dimensions, quantities, color, etc. accoring to plans.	/	X	
SDWS-601-02	Installed/ fixed in place according to plan.	/	X =	
SDWS-601-03	Free from any form of unsafe and dangerous connections, installations, etc.	/	X	
SDWS-601-04	Free from any form of damages.	/	X =	
		/	X	
		/	X =	
Item 602 Mould	ling/ Moulding Strips			
SDWS-602-01	True to size, design profile, color, texture, material, elevation and alignment.	/	X	
SDWS-602-02	Installed materials are free from any form of damages	/	X =	
		/	X	
	tor used? If yes, name of company and owner:	2	Total Score (a) =	CAR Total
	&		No. of Indicators (b))
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate =	

PROJECT NO.: _____ _____VISIT

PROJECT TYPE: Site Development LOCATION: _____

ITEM: DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 603 Entra	nce Gate			
SDWS-603-01	True to alignment, plumbness in conformance to the approved/specified tolerance	/	X	
SDWS-603-02	Gates are properly fixed to wall or posts and are wellded or fastened accordingly.	/	X =	
SDWS-603-03	Gate accessories installed according to plans, e.g. locksets, hinges	/	X	
SDWS-603-04	Free from any form of damages	/	X =	
SDWS-603-05	Gate conforms to specification requirements as to material, dimensions and design motiff according to plans.	/	X =	
		/	X =	
Item 604 Park	Fence			
SDWS-604-01	True to alignment, plumbness in conformance to the approved/specified tolerance	/	X	
SDWS-604-02	Fences are properly fixed to wall or posts and are wellded or fastened accordingly.	/	X =	
SDWS-604-03	Fence accessories installed according to plans.	/	X =	
SDWS-604-04	Free from any form of damage	/	X	
SDWS-604-05	Fence conforms to specification requirements as to material, dimensions and design motiff according to plans.	/	X =	
		/	X =	
ltem 605 Railin	gs			
SDWS-605-01	Installed according to plans	/	X	
SDWS-605-02	Free from dents, scratches or any form of damage	/	X	
SDWS-605-03	Bends and curves are smooth	/	X	
SDWS-605-04	Conforms to approved tolerance size, dimension, height and type e.g. concrete, steel, stainless, aluminum, etc.	/	X	
SDWS-605-05	Safely and rigidly fixed to walls, post or floors.	/	X =	
		/	X	
	tor used? If yes, name of company and owner:			CAR Total
	&		No. of Indicators (b) =	
Entered by:	Date: / /		Rate = (a) / (b) =	
			Rate	

PROJECT ID/NO.: _____ PROJECT TYPE: Site Development LOCATION: _____

ITEM: Basic Services DATE OF VISIT: / /

Rate

	g Construction" = 0.40; "Upon Completion" = 0.50			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
ltem 700 Plumb	bing			
SDWS-700-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports	/	X =	
SDWS-700-02	Conducted and passed the required leak test	/	X =	
SDWS-700-03	Pipes not clogged	/	X	
SDWS-700-04	Free from any form of damages	/	X	
SDWS-700-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location	/	X	
SDWS-700-06	Adhesive conform to specification	/	X =	
SDWS-700-07	Water closet, lavatory conform to specification	/	X	
		/	X	
		/	X =	
Item 701 Sanit	ary			
SDWS-701-01	Pipes installed according to plans, e.g. slope, alignment, location, bracings/supports	/	X	
SDWS-701-02	Conducted and passed the required pressure/leak test	/	X	
SDWS-701-03	Pipes not clogged	/	X	
SDWS-701-04	Free from any form of damages	/	X	
SDWS-701-05	Fixtures and accessories installed according to plans, e.g. height, alignment, location	/	X =	
SDWS-701-06	Adhesive conforms to specification	/	X =	
		/	X =	
		/	X	
		/	X =	
		/	X	
Was subcontrac	tor used? If yes, name of company and owner :		Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b) =	

PROJECT ID/NO.: _____ PROJECT TYPE: Site Develoment ____VISIT

LOCATION:_____

ITEM: Electrical DATE OF VISIT: / /

Rate

SUD-Item Code Indexensity in the said specific team of the interment (SDP) of the total number of spots, the rating for that specific team of work is zero (0). Monito Item 800 Electrical Works Pipes installed according to plans and laid out according to adport on work is zero (0). /X		g Construction" = 0.40; "Upon Completion" = 0.50 INDICATORS			
SDWS-800-01 Pipes installed according to plans and laid out according to approved construction drawings /	Sub-item Code	indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that	Results		Action Monitor
SDWS-800-02 approved construction drawings / =	Item 800 Electi	rical Works			
SDWS-800-02 and painted, sharp edges of pipes removed / = SDWS-800-03 Pipes properly bended / = X	SDWS-800-01	approved construction drawings	/	X	
SDWS-800-03 Pipes property bended /	SDWS-800-02		/	X	
SDWS-800-04 Allowable number of wires in a pipe property observed /	SDWS-800-03	Pipes properly bended	/	X	
SDWS-800-05 pvc tapes / = X SDWS-800-06 Adequate length of wire provided for termination and splicing / = X SDWS-800-07 Wire color coding complied and observed / = X = SDWS-800-08 Wire insulation not damaged during pulling / = X = SDWS-800-09 Adequate number, correct size and gauge of pull boxes / = X = SDWS-800-10 Boxes and enclosures provided according to intended purpose / = X = SDWS-800-11 Fittings and accessories provided and properly installed / = X = = X = = X = = Z <td>SDWS-800-04</td> <td>Allowable number of wires in a pipe properly observed</td> <td>/</td> <td>X</td> <td></td>	SDWS-800-04	Allowable number of wires in a pipe properly observed	/	X	
SDWS-800-06 Adequate length of wire provided for termination and splicing / x	SDWS-800-05		/	X	
SDWS-800-07 Wire color coding complied and observed / =	SDWS-800-06	Adequate length of wire provided for termination and splicing	/	X	
SDWS-800-08 Wire insulation not damaged during pulling / = SDWS-800-09 Adequate number, correct size and gauge of pull boxes installed and properly covered / = SDWS-800-10 Boxes and enclosures provided according to intended purpose / = = SDWS-800-11 Fittings and accessories provided and properly installed / = = SDWS-800-12 Block-outs and sleeves provided and properly secured / = = SDWS-800-13 Cable ties provided / = = SDWS-800-14 Blank covers provided for outlets and switches that are not utilized / = X SDWS-800-15 Use of tools and equipment properly observed / = X = SDWS-800-16 Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages / = X = SDWS-800-18 Shop drawings, as-built plan maintained / = X = X = X = X = X = X = X = X = X = X = X	SDWS-800-07	Wire color coding complied and observed	/	X	
SDWS-800-09 installed and properly covered / = SDWS-800-10 Boxes and enclosures provided according to intended purpose / = SDWS-800-11 Fittings and accessories provided and properly installed / = SDWS-800-12 Block-outs and sleeves provided and properly secured / = SDWS-800-12 Block-outs and sleeves provided and properly secured / = SDWS-800-13 Cable ties provided / = X	SDWS-800-08	Wire insulation not damaged during pulling	/	X	
SDWS-800-10 Boxes and enclosures provided according to intended purpose / x SDWS-800-11 Fittings and accessories provided and properly installed / x SDWS-800-12 Block-outs and sleeves provided and properly secured / x SDWS-800-12 Block-outs and sleeves provided and properly secured / x SDWS-800-13 Cable ties provided / x SDWS-800-14 Blank covers provided for outlets and switches that are not utilized / x SDWS-800-15 Use of tools and equipment properly observed / x SDWS-800-16 Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages x SDWS-800-17 Meager, clamp, phase sequence tests and load test conducted / x SDWS-800-18 Shop drawings, as-built plan maintained / x // x x x // x x x SDWS-800-18 Shop drawings, as-built plan maintained / x x //	SDWS-800-09		/	X	
SDWS-800-11 Fittings and accessories provided and properly installed /	SDWS-800-10		/	X	
SDWS-800-12 Block-outs and sleeves provided and property secured / = SDWS-800-13 Cable ties provided / = SDWS-800-14 Blank covers provided for outlets and switches that are not utilized / = SDWS-800-15 Use of tools and equipment properly observed / = SDWS-800-15 Use of tools and equipment properly observed / = SDWS-800-16 Lighting fixtures, panel boards, circuit breakers, etc. properly / = = SDWS-800-17 Meager, clamp, phase sequence tests and load test conducted / = SDWS-800-18 Shop drawings, as-built plan maintained / =	SDWS-800-11	Fittings and accessories provided and properly installed	/	X	
SDWS-800-13 Cable ties provided / =	SDWS-800-12	Block-outs and sleeves provided and properly secured	/	X	
SDWS-800-14 utilized / = SDWS-800-15 Use of tools and equipment properly observed / X	SDWS-800-13	Cable ties provided	/	X	
SDWS-800-15 Use of tools and equipment properly observed / = SDWS-800-16 Lighting fixtures, panel boards, circuit breakers, etc. properly installed and free from any form of damages / = SDWS-800-17 Meager, clamp, phase sequence tests and load test conducted / = SDWS-800-18 Shop drawings, as-built plan maintained / = V = / V = / V = / V = / V = / V = / V = / V = / V = / V = / V = / V = / V = / V = / V = / V = / Vas subcontractor used? If yes, name of company and owner : / No. of Indicators (b) = No. of Indicators (b) =	SDWS-800-14		/	X	
SDWS-800-16 installed and free from any form of damages / = SDWS-800-17 Meager, clamp, phase sequence tests and load test conducted / X	SDWS-800-15	Use of tools and equipment properly observed	/		
SDWS-800-17 Meager, clamp, phase sequence tests and load test conducted / X	SDWS-800-16		/	X =	
SDWS-800-18 Shop drawings, as-built plan maintained / X	SDWS-800-17	Meager, clamp, phase sequence tests and load test	/	X	
/ = / X / X Was subcontractor used? If yes, name of company and owner : Total Score (a) Was subcontractor used? If yes, name of company and owner : No. of Indicators (b)	SDWS-800-18	Shop drawings, as-built plan maintained	/	X	
/ = Was subcontractor used? If yes, name of company and owner : Total Score (a) CAR Total Mo. of Indicators (b) = =			/	X	
Was subcontractor used? If yes, name of company and owner : = No. of Indicators (b) =			/	X	
=	Was subcontractor used? If yes, name of company and owner :			Total Score (a) =	CAR Total
Entered by: Date: / / Rate = (a) / (b)				No. of Indicators (b =)
	Entered by:	Date: / /		Rate = (a) / (b) =	

____VISIT

PROJECT ID/NO.: _____ PROJECT TYPE: Site Develoment LOCATION:_____

ITEM: Sewer & Drainage System DATE OF VISIT: / /

	INDICATORS			
Sub-item Code	Note: Spots with a single major defect shall forfeit all points for the rest of the indicators in the said spot. Further, if the number of complying spots is less than fifty percent (50%) of the total number of spots, the rating for that specific item of work is zero (0).	Results	Score x factor	Action Monitor
Item 900 Pipe (Culvert and Storm Drain			
SDWS-900-01	Bedding and backfill materials compacted to the required density	/	X	
SDWS-900-02	Proper jointing of pipes	/	X =	
SDWS-900-03	Mortar for jointing of reinforced concrete culvert pipes conforms to specified mixture type	/	X =	
SDWS-900-04	Adequate collaring of reinforced concrete culvert pipes	/	X =	
SDWS-900-05	Conformance to the approved/specified tolerance for elevation, slope, and alignment	/	X	
SDWS-900-06	Cracks, honeycomb, chipping-off within specified tolerances	/	X =	
SDWS-900-07	Sufficient collaring & flushing	/	X	
SDWS-900-08	Conformance to the approved quality of concrete mix	/	X =	
SDWS-900-09	Spacing and sizes of rebars conform to specification	/	X =	
		/	X	
ltem 901 Manh	oles, Inlets and Catch Basin			
SDWS-901-01	Conformance to approved/specified tolerances for dimensions, elevations	/	X	
SDWS-901-02	Covers and gratings well fitted and can easily be opened during maintenance work	/	X =	
SDWS-901-03	Honeycomb, cracks, spalling, etc. within specified tolerance	/	X =	
SDWS-901-04	Conformance to approved quality of concrete mix	/	X =	
SDWS-901-05	Spacing and sizes of rebars conform to specification	/	X	
		/	X =	
		/	X =	
		/	X	
		/	X =	
Was subcontractor(s) used? If yes, name of company(ies) and sub-item:			Total Score (a) = No. of Indicators (b)	CAR Total
Entered by:	Date: / /		= Rate = (a) / (b)	
			= Rate	

CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR MATERIALS

PROJECT ID/NO.: _____

Factor : "During Construction" = 0.30; "Upon Completion" = 0.20

PROJECT TYPE: _____ ITEM: _____

_____Visit

DATE OF VISIT: / /

Sub-item	INDICATORS	Results	Score	Action
Code	Note: If constructor complied with indicator #1, all indicators should be rated			Monitor
MAT01	Materials complied and passed test requirements with		Х	
	Philippine National Standard (PNS)/Import Commodity	1 or 0	=	
	Certificate (ICC) and/or specified type/class/brand			
MAT02	Materials are correctly stored and handled to prevent damage,	1 or 0	х	
W// 02		1010	=	
MAT03	Non-conforming materials are identified and segregated against	1 or 0	х	
W// 00	inadvertent use		=	
MAT04	Evidence is supplied to verify that specified materials were used	1 or 0	Х	
	in the project	1010	=	
MAT05	Materials records are clearly legible, complete, traceable to	1 or 0	Х	
MAT 00	project and readily available	1010	=	
			Х	
			=	
			Х	
			=	
			х	
			=	
			х	
			=	
			Х	
			=	
			х	
			=	
Was subcontractor used? If yes, name of company and owner:			Total Score (a)	
			No. of Indicators	(b)
Entered by: Date: / /			(a) / (b) =	
			Data	
			Rate =	

- NOTE: 1. If constructor does not comply with Indicator #1, the remaining four (4) indicators shall also be evaluated for CAR/PAR purposes but the final rating is automatically zero (0).
 - 2. Please fill-up the blank spaces in the code corresponding to the item number of work being evaluated.

CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR TIME (During Construction)

PROJECT ID/NO.: _____

____VISIT

PROJECT TYPE:

DATE OF VISIT: / /

Sub-item Code		NDICATORS	Results	Score	Action Monitor				
TME-I-01	On or ahead of sch	edule per approved Bar chart & S-curve		0.15					
TME-I-02		negative slippage 5% - Slippage =%							
TME-I-03	With negative slip	page of 15% or more		0.00					
		name of company and owner: &		Rate =					
Entered by	:	Date: / ,	/						
	DELAY FAULT OF:	ConstructorProject 0	Owner	Others					
	CAUSES OF DELAY (Please indicate codes as listed below):								
	Constructor-related	Problems							
	C-WO1Insufficient manpower deployed in project siteC-EO1Breakdown of equipment/equipment not operationalC-EO2Lack/Insufficient/Inadequate equipment deployed in project siteC-MO1Lack/Inadequate/Insufficient supply of construction materialsC-RO1Lack of financial resources								
	Agency-related Prol	olems							
	A-VO1 A-TO1 A-SO1 A-DO1 A-FO1 A-RO1 A-PO1	Delays in the approval of variation orders Delays in the approval of contract time external Delays in the approval of suspension order Changes in construction designs Delays in the releases of funds Right-of-Way (ROW) acquisition problem (relocation of utilities, i.e. PLDT, MERAL Delays in acquisition of necessary permits	r (squatter re CO posts a	•					
	Other-related Proble	ems							
	O-WO1	Unfavorable weather condition (occurrence of flooding/siltation on site; unworkable g			ccurrence				
	O-PO1 Insurgence or peace and order problems/civil disturbances O-TO1 Third party intervention								

Note: In rating time, only delays that are attributable to the constructor should be reflected in the rating

CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR TIME (Upon Completion)

PROJECT ID/NO.: _____ FINAL VISIT PROJECT TYPE:_____ DATE OF VISIT: / /

Sub-item Code	-	INDICATORS	Results	Score	Action Monitor						
TME-F-01	On or ahead of	f schedule per approved Bar Chart & S-Curve		0.30							
TME-F-02	With less than Formula: Sco										
			-								
TME-F-03	With negative	slippage of 10% or more		0.00							
			_								
				Rate =							
		yes, name of company and owner:									
Entered by	/:	Date: /	/								
	DELAY FAULT	OF:ConstructorProject	Owner	Others							
	CAUSES OF D	DELAY (Please indicate codes as listed below): _									
	Constructor-related Problems										
	C-WO1 C-EO1	Insufficient manpower deployed in project Breakdown of equipment/equipment not o									
	C-EO2	Lack/Insufficient/Inadequate equipment de	•	oroject site							
	C-MO1	Lack/Inadequate/Insufficient supply of con		•							
	C-RO1	Lack of financial resources									
	Agency-related Problems										
	A-VO1	Delays in the approval of variation orders									
	A-TO1	Delays in the approval of contract time ext	ension								
	A-SO1	Delays in the approval of suspension orde	r								
	A-DO1	Changes in construction designs									
A-FO1 Delays in the releases of funds											
	A-RO1 Right-of-Way (ROW) acquisition problem (squatter relocation proble relocation of utilities, i.e. PLDT, MERALCO posts and other similar										
A-PO1 Delays in acquisition of necessary permits											
	Other-related Problems										
	O-WO1	O-WO1 Unfavorable weather condition (occurrence of natural calamities; occurrence of flooding/siltation on site; unworkable ground condition)									
	O-PO1 Insurgence or peace and order problems/civil disturbances										
	O-TO1	Third party intervention									

Note: In rating time, only delays that are attributable to the constructor should be reflected in the rating

CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR TIME (During Construction - for contracts with no materials or materials are supplied by the owner)

PROJECT ID/NO.: _____ ____VISIT PROJECT TYPE:_____ DATE OF VISIT: / /

Sub-item	1	INDICATORS	Results	Score	Action			
Code					Monitor			
TME-I-01	On or ahead o Curve	of schedule per approved Bar chart & S-		0.20				
TME-I-02		n 15% negative slippage	<u>} </u>					
	Formula: Sco	re = [(15% - Slippage) x 0.20]/15						
			1					
TME-I-03	With negative	e slippage of 15% or more	\vdash	0.00				
		yes, name of company and owner:		Rate =				
Entered by	y:	Date: /	/					
	DELAY FAULT	T OF:ConstructorProject	Owner	Others				
	CAUSES OF [DELAY (Please indicate codes as listed below): _						
	Constructor-re	lated Problems						
	C-WO1	Insufficient manpower deployed in project						
	C-EO1	Breakdown of equipment/equipment not c	•					
	C-EO2	Lack/Insufficient/Inadequate equipment de		•				
	C-MO1	Lack/Inadequate/Insufficient supply of cor	struction m	aterials				
	C-RO1	Lack of financial resources						
	Agency-related	d Problems						
	A-VO1	Delays in the approval of variation orders						
	A-TO1	Delays in the approval of contract time ex	tension					
	A-SO1	Delays in the approval of suspension orde						
	A-DO1	Changes in construction designs						
	A-FO1	Delays in the releases of funds						
	A-RO1Right-of-Way (ROW) acquisition problem (squatter relocation problems, relocation of utilities, i.e. PLDT, MERALCO posts and other similar caA-PO1Delays in acquisition of necessary permits							
	Other-related I	Problems						
	O-WO1	Unfavorable weather condition (occurrence of flooding/siltation on site; unworkable			occurrence			
	O-PO1 O-TO1	Insurgence or peace and order problems/ Third party intervention	-	•				

Note: In rating time, only delays that are attributable to the constructor should be reflected in the rating $$^{4\text{-}3}$$

CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR TIME (Upon Completion - for contracts with no materials or materials are supplied by the owner)

PROJECT ID/NO.: _____ FINAL VISIT

PROJECT TYPE:_____ DATE OF VISIT: / /

Sub-item Code	-	INDICATORS	Results	Score	Action Monitor						
TME-F-01	On or ahead o Curve	of schedule per approved Bar Chart & S-	1 1	0.50							
	With loss the	n 100/ norrotivo olinnorro									
TME-F-02		n 10% negative slippage re = [(10% - Slippage) x 0.50]/10	-								
TME-F-03	With negative	e slippage of 10% or more		0.00							
				Rate =							
		yes, name of company and owner:									
		Date: /	L								
	,		-								
	DELAY FAUL	T OF:ConstructorProjec	Owner	Others							
	CAUSES OF [DELAY (Please indicate codes as listed below):									
	Constructor-re	lated Problems									
	C-WO1	Insufficient manpower deployed in project	t site								
	C-EO1	Breakdown of equipment/equipment not									
	C-EO2	Lack/Insufficient/Inadequate equipment of									
	C-MO1	Lack/Inadequate/Insufficient supply of co	nstruction m	aterials							
	C-RO1	Lack of financial resources									
	Agency-related Problems										
	A-VO1	Delays in the approval of variation orders	i								
	A-TO1	Delays in the approval of contract time ex									
	A-SO1	, , , , , , , , , , , , , , , , , , , ,									
	A-DO1	Changes in construction designs									
	A-FO1	Delays in the releases of funds									
	A-RO1	Right-of-Way (ROW) acquisition problem relocation of utilities, i.e. PLDT, MERAL									
A-PO1 Delays in acquisition of necessary permits Other-related Problems											
									O-WO1 Unfavorable weather condition (occurrence of natural calamities; occurrence of flooding/siltation on site; unworkable ground condition)		
	O-PO1 Insurgence or peace and order problems/civil disturbances										
	0-T01	Third party intervention									

Note: In rating time, only delays that are attributable to the constructor should be reflected in the rating 4-4

CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR FACILITIES

PROJECT ID/NO.: _____

PROJECT TYPE: _____

_____Visit

DATE OF VISIT: / /

Sub-item	INDICATORS	Results	Score	Action
Code	*Note: Select indicators which are applicable.			Monitor
	· · · · · · · · · · · · · · · · · · ·			
		1		
	Adequate and efficient testing equipment were set-up prior	1 0	x.0.03	
FAC-01	to actual start of the project.	1 or 0	=	
		1		
FAC-02	Adequate and efficient surveying equipment were set-up	1 or 0	x.0.03	
FAC-02	prior to actual start of the project.	1010	=	
FAC-03	Adequate transportation facilities were provided.	1 or 0	x.0.03	
FAC-03		1010		
FAC-04	Provision and maintenance of signboards, camp facilities	1 or 0	x.0.03	
FAC-04	and/or field and on-site office facilities.	1010	=	
FAC-05	Provision of appliances, utensils and other items as may	1 or 0	x.0.03	
TAC-03	be required in the contract.	1010	=	
		4		
		<u> </u>		
		4		
		4		
			Total Score (a)	
	ractor used? If yes, name of company and owner:			
	&		No. of Indicators (b)
Entered by	: Date: /	/	(a) / (b) =	
			Rate =	

CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR ENVIRONMENTAL, SAFETY AND HEALTH

PROJECT ID/NO.: _____

PROJECT TYPE: _____

_____VISIT

DATE OF VISIT: / /

Sub-item	INDICATORS*	Results	Score	Action
Code	* Note: Select indicators which are applicable.			Monitor
Environment	al			
	Waste materials are collected, stored and transported to		x 0.07	
ESH-100-01	approved dumps/disposal area.	1 or 0	=	
	Construction activities are carried out in specific time of the	4	x 0.07	
ESH-100-02	day as approved by local officials.	1 or 0	=	
ESH-100-03	Compliance to Environmental Clearance Certificate	— 1 or 0	x 0.07	
ESH-100-03	requirements.	1010	=	
Safety and H	ealth			
ESH-200-01	Safety and Health program approved by DOLE/Implementing	1 or 0	x 0.07	
200-01	Office (IO).	1010	=	
	Safety and Health committee established and maintained in		x 0.07	
ESH-200-02	accordance with Rule 1410 of Occupational Safety and	1 or 0		
	Health Standards.		=	
ESH-200-03	Certified/Qualified Safety and Health personnel employed	1 or 0	x 0.07	
2011 200 00	and detailed at site.	1 01 0	=	
	Appropriate personal protective equipment (e.g. helmets,		x 0.07	
ESH-200-04	safety shoes, safety belt/lifeline, eye protection, ear plug,	1 or 0	=	
	dust mask, etc.) provided and worn by all workers/staff.			
ESH-200-05	Heavy equipment operated by certified/qualified operators only.	— 1 or 0	x 0.07	
	Critical construction work done by certified/qualified skilled		x 0.07	
ESH-200-06	workers only.	1 or 0	=	
	Heavy equipment are tested and certified to be in good	1 or 0	x 0.07	
ESH-200-07	running condition.		=	
	Safety practices and procedures in general construction			
ESH-200-08	observed and implemented at construction site (electrical,	1 or 0	x 0.07	
ESH-200-00	fire protection, lighting, construction of safe walkways,	1010	=	
	protection from falling materials, shoring, scaffolding, etc.).			
ESH-200.00	First aid cabinets are fully equipped and readily available for	1 or 0	x 0.07	
ESH-200-09	treatment of sicknesses and injuries.	— 1 or 0	=	
ESH-200-10	ESH signs are clearly visible to construction staff, workers	— 1 or 0	x 0.07	
	and public	1010	=	
ESH-200-11	Conduct of regular safety meeting.	1 or 0	x 0.07	
			=	
ESH-200-12	Monthly construction safety and health report submitted to DOLE.	— 1 or 0	x 0.07	
	I		Total Score(a)	
Was subcont	ractor used? If yes, name of company and owner:		Total Score(a)	
			No. of Indicators (b)	
Entered by	Date: / /		(a) / (b) =	
			Poto	
			Rate =	

CONSTRUCTORS PERFORMANCE EVALUATION SYSTEM CHECKLIST FOR RESOURCES DEPLOYMENT

PROJECT ID/NO.: _____

PROJECT TYPE: _____

_____VISIT

DATE OF VISIT: / /

Sub-item	INDICATORS*	Results	Score	Action
Code	*Note: All indicators shall be rated.			Monitor
RDR-01	Pledged materials as per PERT/CPM or program of work were	1 or 0	x 0.05	
	delivered at site on time.	1010	=	
]		
RDR-02	Pledged equipment as per PERT/CPM or program of work were	1 or 0	x 0.05	
	delivered at site on time.	1 01 0	=	
RDR-03	Pledged manpower as per PERT/CPM or program of work were	1 or 0	x 0.05	
	mobilized at site on time.		=	
		_		
		-		
		-		
		-		
			Total Score (a)	
Was subc	ontractor used? If yes, name of company and owner:		101al 0001e (a)	
	&		No. of Indicators (b)	
	w		140. OF ITUCALOIS (D)	
Entorod	by: Date: / /		(a) / /b)	
LITELEO	by: Date: / /		(a) / (b) =	
			Rate =	

CPES EVALUATION FORM

□ Road □ Bridge	□ Housing	Building	Irrigation	□ Flood Control
Port and Harbor	Power Trai	nsmission Line	□ Substation	Diesel Power Plant
Mooring Facilities fo	r Power Barges	s 🗆 Site Develo	pment	Others

Project Owner	•••	
Project Implementing Office	:	

PART I. GENERAL INFORMATION

Name of Constructor/s

% Share of each Firm (if Joint Venture)

Name of AMO

Address

Valid License Number & Category/ARC-C

Nationality (Local/Foreign)

Date of Evaluation	:	
Project Type	:	
Project Name	:	
Project Location/Region	:	
Funding Source	:	
Scope of Work	:.	
Status	:	

Name of Constructor/Gov't Proj Manager	:	
Name of Constructor/Gov't Proj Engineer	:	
Name of Constructor/Gov't Mat'ls Engineer	:	
Name of Constructor Cost Engineer	:	
Consultant/Consulting Firm	:	

Contract Cost, Original	:	Р	Revised	:	as of	
Contract Duration, Original	:		Revised	•••	as of	
Scheduled Start Date	:		Revised	•••	as of	
Actual Date Started	:					
Scheduled Completion Date	:		Revised	•••	as of	

% Planned Physical Accomplishment for the Month	:	
% Actual Physical Accomplishment for the Month	:	
Slippage for the Month	:	
Variation Order (Php, M)	:	
Time Extension	:	

PART II. DURING CONSTRUCTION RATING SHEET

Date of ____ Visit / / / /

Items of Work/Description	% Relative Weight % Weight			nanship 0.40]		terials (. 0.30]
			Rate	Relative Rate	Rate	Relative Rate
Total						

Summary of Ratings

Workmanship [Max. 0.40] Materials [Max. 0.30] Time [Max. 0.15] Facilities [Max. 0.03] Environmental, Safety & Health [Max. 0.07] Resource Deployment [Max. 0.05]		
RATING		
Sum of Ratings "During Construction" (a) Average Rating "During Construction" (b) Appropriate Weight for Kind of Project (c)		
(A) WEIGHTED RATING FOR "DURING CON	STRUCTION" (b x c)	
CPE Head/Individual	Designation, Office	<u>Signature</u>
<u>CPE Members</u>	Designation, Office	<u>Signature</u>
Resource Persons/Witnesses	Designation, Office	<u>Signature</u>

(Note: This form maybe reproduced depending on the number of visits)

PART III. UPON COMPLETION RATING SHEET

Date of ____ Visit / / / /

Item of Work/Description	% Weight	Relative % Weight	Workmanship [Max 0.50]		Materials [Max. 0.20]	
			Rate	Relative Rate	Rate	Relative Rate
Total						

Summary of Ratings

Workmanship [Max. 0.50]
Materials [Max. 0.20]
Time [Max. 0.30]

RATING (a)	
Appropriate Weight for Kind of Project (b)	

(B) WEIGHTED RATING FOR "UPON COMPLETION" (a x b)

OVER-ALL CPES RATING (A of Part II + B of Part III) x 100% = (______+ _____) x 100% = _____%

QUALITATIVE DESCRIPTION

Ī	j	Outstanding Very Satisfactory Satisfactory	>96% >89% <u><</u> 96% >82% <u><</u> 89%	 Unsatisfactory Poor	≥ 75% ≤ <75%	82%

CPE Head/Individual	Designation, Office	<u>Signature</u>
<u>CPE Members</u>	Designation, Office	<u>Signature</u>
Resource Persons/Witnesses	Designation, Office	<u>Signature</u>

_	
CORF	RECTIVE ACTION REQUEST (CAR)
Project Data	
Project Owner Project Implementing Office Project Type Project Name Project Location Constructors Name Date of Evaluation	
Non-Conformance Finding	js (to be submitted by Evaluator):
Sub-Item Code: Location/De	etail
·	
·	
Proposed Corrective Action	Required from Constructor Not later than///
Position P	rinted Name Signature Date Date

CORRECTIVE ACTION PLAN (CAP) & PREVENTIVE ACTION PLAN (PAP) (To be Submitted by Constructor)

Project Data			
Project Owner Project Implementing Office Project Type Project Name Project Location Constructors Name Date of Evaluation			
Proposed Corrective Act	ion Plan (CAP)		
[] Remove & Replace	[]Repair []V	ariation	
Sub-Item Code: Location/	Detail		
			······
Proposed Preventive Act	ion Plan (PAP)		
Sub-Item Code: Location/	Detail		
Position	Printed Name	Signature	/// Date

ASSESSMENT OF CORRECTIVE ACTION PLAN
Project Data
Project Owner : Project Implementing : Office . Project Type : Project Name . Project Location . Constructors Name . Date of Evaluation .
Assessment by the Head of the Implementing Office:
Sub-Item Code: Location/Detail
[] Approved [] Not Approved
Reasons
Position Printed Name Signature Date
Verification: (Verified by Owner's Project Engineers) [] Implemented Corrected Action
[] Unsatisfactory
·
Signature //_/_/ Date
[] Ongoing
[] Satisfactorily Completed

CONSTRUCTORS PERFORMANCE SUMMARY REPORT

Project Owner	:	
Project Implementing Office	:	

General Information

Name of Constructor/s	:	
% Share of each Firm (if JV)	:	
Name of AMO	:	
Address	:	
Valid License Number	:	
PCAB/ARC Category	:	
Contractors Association	:	
Nationality (Local/Foreign)	:	

Project Data

Date of Evaluation	•••			
Project Type	•••			
Project Name	•••			
Project Location	:			
Funding Source	:			
Scope of Work	:			
Status	:			
Name of Constructor/Gov't Proj Manager		:		
Name of Constructor/Gov't Proj Engineer		:		
Name of Constructor/Gov't Mat'ls Engineer		:		
Name of Constructor Cost Engineer			•••	
Consultant/Consulting Firm		:		

Contract Cost, Original	: P	Revised	:	as of	
Contract Duration, Original	:	Revised	:	as of	
Scheduled Start Date	:	Revised	:	as of	
Actual Date Started	:				
Scheduled Completion Date	:	Revised	:	as of	
% Planned Physical Accomplishment for the Month :					
% Actual Physical Accomplishment for the Month :					
Slippage for the Month :					
Variation Order (Php, M) :					
Time Extension (C. D.)					

Summary of Ratings

No. of Visit		 :	
Workmanship	(0.40/0.50)	 :	
Materials	(0.30/0.20)	 :	
Time	(0.15/0.30)	 :	
Facilities	(0.03)	 :	
Environment, Safety & Health	(0.07)	 :	
Resources Deployment	(0.05)	 :	
VISIT RATING			

FINAL RATING	:		
QUALITATIVE DESCRIPTION	:		

CPE FINDINGS

A. Non-Compliance Findings Based on CPES Checklist

Notes: The list of non-compliance findings on the different aspects covered must be based on its requirement for Corrective Action Request (CAR)

Workmanship

Item-Code	Description	*R
	Constructors Challenges Encountered	

* Results, R = Compliance/Number of spots

Materials

Item-Code	Description
	Constructors Challenges Encountered

Time

Item-Code	Description	
	Challenges Encountered	
	(Please indicate codes as listed below)	

CONSTRUCTOR-RELATED PROBLEMS

- C-W01 Insufficient manpower deployed in projects site
- C-E01 Breakdown of equipment/equipment not operational
- C-E02 Lack/Insufficient/Inadequate equipment deployed in project site
- C-M01 Lack/Inadequate/Insufficient supply of construction materials
- C-R01 Lack of financial resources

AGENCY-RELATED PROBLEMS

- A-V01 Delays in the approval of variation orders
- A-T01 Delays in the approval of contract time extension
- A-S01 Delays in the approval of suspension order
- A-D01 Changes in construction designs
- A-F01 Delays in the releases of funds
- A-R01 Right-of-Way (ROW) acquisition problem (squatter relocation problems, relocation of utilities, i.e. PLDT, MERALCO posts and other similar cases)
- A-P01 Delays in acquisition of necessary permits

OTHER-RELATED PROBLEMS

- O-W01 Unfavorable weather condition (occurrence of natural calamities, flooding/siltation on site; unworkable ground condition)
- O-P01 Insurgence or peace and order problems/civil disturbances
- O-T01 Third party intervention
- O-C01 Additional Commission on Audit (COA) requirements

Facilities

Item-Code	Description	
	Constructors Challenges Encountered	

Environmental, Safety and Health

Item-Code	Description
	Constructors Challenges Encountered

Resources Deployment

Item-Code	Description
	Constructors Challenges Encountered

B. List of Challenges Encountered by Agency and Other Related Challenges Encountered

	CHALLENGES ENCOUNTERED						
	AGENCY	OTHER RELATED					
Code	Description	Code Description					

C. Proposed Corrective Action Plan by the Contractor

Item-Code	Corrective Action	

D. Narrative Reports

- Please highlight major positive and negative performances of constructor in summary form.
- Non-compliance of Corrective Action Request (CAR) of (no. Visit)
- Others/Remarks:

CPES EVALUATORS:

Team Leader	Name	Signature
Members		
_		
-		

Noted by:

Head, CPES-IU

SCHEDULE OF MINIMUM TEST REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORTS, 1998, (VOLUME II)

PART C - EARTHWORK

PARIC-EARINWORK		
	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 100 -	Clearing & Grubbing	None
Item 101 -	Removal of Structures &	None
	Obstruction	
Item 102 -	Excavation	Same tests as for Items 103, 104 and 105, which-
		ever is applicable.
Item 103 -	Structure Excavation	
	If excavated materials are wasted,	If excavated materials are incorporated into the work:
	the volume involved shall be	For every 1500 cu.m. or fraction thereof:
	reported so that Quality	1-G, Grading Test
	Control requirements may be	
	adjusted accordingly.	1-C, Laboratory Compaction Test
	Submit Project Engineer	
	Certificate of Waste	1-D, Field Density
Item 104 -	Embankment	For every 1500 cu.m. or fraction thereof:
		1-G, Grading Test
		1-P, Plasticity Test (LL, PL, PI)
		1-C, Laboratory Compaction Test
		For each 500 sq. m. of each layer of compacted fill or
		fraction thereof at least one group of three in-situ
		density tests. The layers shall be placed not
		exceeding 200 mm in loose measurement or based
		on the result of compaction trials.
Item 105 -		Same tests as for Item 104
Item 106 -	Compaction Equipment and	Same tests as for Items 104, 105, 200, 201, 202,
	Density Control Strips	203, 204, 205, 206 and 300.
Item 107 -	Overhaul	None

PART D - SUBBASE AND BASE COURSE

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 200 -	Aggregate Subbase Course	For every 300 cu.m. or fraction thereof:
		1-G, Grading Test
		1-P, Plasticity Test (LL, PL, PI)
		For every 1500 cu.m. or fraction thereof:
		1-C, Laboratory Compaction Test
		For every 2500 cu.m. or fraction thereof:
		1-CBR, California Bearing Ratio Test
		For every layer of 150 mm of compacted depth/
		based on the results of compaction trials:
		At least one group of three in-situ density tests for
		each 500 sq.m. or fraction thereof.
Item 201 -	Aggregate Base Course	For every 300 cu.m. or fraction thereof:
		1-G, Grading Test
		1-P, Plasticity Test (LL, PL, PI)
		For every 1500 cu.m. or fraction thereof:
		1-Q, Quality Test for : (Grading, Plasticity and
		Abrasion)
		1-C, Laboratory Compaction Test
		For every layer of 150 mm of compacted depth/ based
		on the results of compaction trials:
		At least one group of three in-situ density tests for
		each 500 sq.m. or fraction thereof.

PART D - SUBBASE AND BASE COURSE

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
ltem 202 -	Crush Aggregate Base Course	Same tests as for Item 201
		For every 1500 cu.m. or fraction thereof:
		1-F, Fractured Face
ltem 203 -	Lime Stabilized Road	A. Soil Aggregate
	Mix Base Course Amount of Lime	For every 300 cu.m. or fraction thereof:
	to be added:	1-G, Grading Test
	3 to 12 mass percent of dry	1-P, Plasticity Test (LL, PL, PI)
	aggregate	For every 1500 cu.m. or fraction thereof:
		1-Q, Quality Test for : (Grading, Plasticity and
		Abrasion)
		B. <u>Mix</u> For every 300 cu.m. or fraction thereof:
		1-C, Laboratory Compaction Test
		1-UC, Unconfined Compression Test
		1-CBR, California Bearing Ratio Test
		C. Compacted Base Course
		For every layer of 150 mm of compacted depth:
		1-D, Field Density Test for every 150m or fraction
		thereof
		D. <u>Hydrated Lime</u>
		For every 100 t or fraction thereof:
14 a res 0.0.4	Dentional Conserve Otability of Denad	1-Q, Quality Test
Item 204 -	Portland Cement Stabilized Road Mix Base Course	A. <u>Soil Aggregate</u> Same tests as for Item 203
	Amount of Cement to be added: 6	B. Cement
	to 10 mass % of dry soil	1-Q Quality Test for every 2000 bags of fraction
	aggregate	thereof
		C. Water
		1-Q, Quality Test/Project Engineer's Certificate
		D. <u>Mix</u>
		For every 300 cu.m. or fraction thereof:
		1-C, Laboratory Compaction Test
		1-UC, Unconfined Compression Test
		1-CBR, California Bearing Ratio Test
		E. <u>Compacted Base Course</u>
		For every layer of 150 mm compacted depth 1-D, Field density Test for every 150m or fraction
		thereof
		1-T, thickness determination for every 150 m or
		fraction thereof
ltem 205 -	Asphalt Stabilized Road Mix Base	A. Soil Aggregate
	Course	Same tests as for Item 203
	Amount of Asphalt to be added: 6	B. Emulsified Asphalt
	to 10 mass % of dry soil	1-Q, Quality Test for every 40 to 200 drums or
	aggregate.	fraction thereof
		C. <u>Mix</u> Same tests as for Item 203
		D. Compacted Base Course
		Same tests as for Item 203
ltem 206 -	Portland Cement Treated Plant	A. Soil Aggregate
200	Mix Base course	Same tests as for Item 203
	Amount of Asphalt to be added: 6	B. <u>Portland Cement</u>
	to 10 mass % of dry soil	For every 2000 bags of fraction thereof:
	aggregate	1-Q, Quality Test
		C. <u>Water</u>
		1-Q, Quality Test/Project Engr's Certificate

PART D - SUBBASE AND BASE COURSE

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
	D. Same tests as for Item 204
	E. Compacted Base Course
	For every layer of 150 mm compacted depth
	1-D, Field Density Test for every 150 m or
	fraction thereof
	1-T, Thickness determination for every 150m
	or fraction thereof
Item 207 - Aggregate Stockpile	Same tests as specified in Item No. of the Specs.

PART E - SURFACE COURSE

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 300 - Aggregate Surface Course	 For every 300 cu. m. or fraction thereof: 1-G, Grading Test 1-P, Plasticity Test (PI, LL, PI) For every 1500 cu.m. or fraction thereof: 1-C, compaction Test for: (Grading, plasticity and Abrasion) For every layer of 150 mm of compacted depth/based on the results of compaction trials. At least on group of three in-situ density tests for each 500 sq. m. or fraction thereof. For crushed Gravel or Crushed Stone, 1500 cu.m. or fraction thereof: 1-F, Fractured face
Item 301 - Bituminous Prime Coat	Quantity: 1 to 2 L/sq.m. 1-Q, quality Test for every 40 t or 200 drums
Item 302 - Bituminous Tack Coat	Quantity: 0.2 to 0.7 L/sq.m. 1-Q, Quality test for every 40 t or 200 drums
Item 303 - Bituminous Seal Coat	 A. <u>Bituminous Materials</u> Quantity: o.2 to 1.5 L/sq.m. 1-Q, Quality Test for every 40t or 200 drums B. <u>Cover Aggregates</u> Quantity: From 5 to 14 kg/s.q. m. For every 75 cu.m./200 kg. or fraction thereof : 1-G, grading Test
Item 304 - Bituminous Surface Treatment	 A. <u>Aggregates</u> Quantity: Using Cut-Back Asphalt or Asphalt Cement – 13.6 to 38.0 kg/sq.m. Using Emulsified Asphalt - 13.6 to 19.04 Kg/sq.m. For every 75 cu.m./200 kg. or fraction thereof: 1- G, grading Test 1- P, Plasticity Test (PL, LL, PI) For every 1500 cu.m. or fraction thereof: 1- Q, Quality Test for: (Grading, Plasticity, Abrasion, Stripping and Bulk specific Gravity) 1-F, Fractured Face B. <u>Bituminous Materials</u> Quantity: Using Cut-back Asphalt or Asphalt Cement - 1.58 to 2.04 L/sq.m. Using Emulsified asphalt - 1.58 to 2.04 L/sq.m. Same test as for Item 301

PART E - SURFACE COURSE

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
ltem 305 -	Bituminous Penetration Macadam	A. <u>Aggregates</u>
	Pavement	Quantity:
		1. Using Asphalt Cement or Rapid Curing
		Course (Crushed)90 Kg/sq.m.
		Key (Crushed)(13 & 11)24 kg/sq.m.
		Cover Crushed & Screened)8 kg/sq.m.
		2. Using Emulsified Asphalt
		Course (Crushed)90 kg/sq.m.
		Choker (Crushed)10 kg/sq.m.
		Key (Crushed)18 kg/sq.m.
		Cover (Crushed or Screened) 8 kg/sq.m. Same test as for Item 304
		B. <u>Bituminous Materials</u>
		Quantity: 7.2 to 11 L/sq.m.
		Same tests as for for Item 301
Item 306 -	Bituminous Road Mix Surface	A. <u>Aggregates</u>
item 500 -	Course	Same tests as for Item 304
		B. <u>Bituminous Materials</u>
		Quantity:
		1. Using Cut-Back Asphalt - 4.5 to 7.0 mass %
		of total dry aggregate
		2. Using Emulsified Asphalt - 6.0 to 10.0 mass
		% of total dry aggregate
		Same test as for Item 301
		C. <u>Mix</u>
		Tests: For every 75 cu.m./130 t or fraction
		thereof:
		1-G, grading Test
		1-Ext., Extraction
		1-Sty., Stability
		1-C, Laboratory Compaction
		D. <u>Hydrate Lime</u>
		For every 100 t or fraction thereof:
		Tests: 1-Q, quality Test
		E. <u>Compacted pavement</u>
		For each full day's operation:
		Tests: D & T (Density and Thickness Test) - at
		least one (1) but not more than (3) samples shall be taken.
Itom 307 -	Bituminous Plant-Mix Surface	A. <u>Aggregates</u>
	Course General	For every 75 cu.m./200 t or fraction thereof:
	Course General	1-G & P, Grading and Plasticity Tests for every
		1500 cu.m. of fraction thereof:
		1-Q, quality Test for: (Grading, Plasticity,
		Abrasion, Stripping and Bulk Specific Gavity)
		1-F, Fractured Face
		B. Bituminous Materials
		Quantity: 5.0 to 8.0 mass % of total dry aggregate
		Tests: 1-Q, Quality Test for each 40 t of fraction
		thereof
		C. <u>Mix</u>
		For every 75 cu.m. /130 t of fraction thereof:
		1-G, Grading Test
		1-Ext., Extraction
		1-Sty., Stability
		1-C, Laboratory Compaction

PART E - SURFACE COURSE

PART E - SURFACE COURSE ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
	D. Hydrated Lime
	For every 100 t or fraction thereof
	E. Mineral filler
	For every 75 cu.m. or fraction thereof:
	1-G & P, grading and Plasticity Tests (LL, PL, PI)
	For each full day's operation:
	D & T (Density and Thickness Tests) - at least
	one (1) but not more than three (3) samples shall
	be taken.
Item 308 - Bituminous Plant Mix, Surface	A. <u>Aggregate</u>
Course, Cold laid	Same tests as for Item 307
	B. Bituminous Material
	Quantity:
	Using Cut-Back Asphalt - 4.5 to 7.0 mass % of
	total dry aggregate
	Using Emulsified Asphalt - 6.0 to 10.0 mass % of
	total dry aggregate
	Tests: 1-Q, Quality Test for every 40t or 200
	drums
	C. <u>Mix</u>
	Same tests as for Item 307
	D. <u>Hydrated Lime</u>
	Same tests as for Item 307
	E. <u>Mineral Filler</u> For every 75 cu.m. or fraction thereof:
	1-G & P, Grading and Plasticity Tests (LL,
	PL, PI)
	F. Compacted Pavement
	Same tests as for Item 307
Item 309 - Bituminous Plant Mix (Stockpile	A. Aggregate
Maintenance Mixture)	Same tests as for Item 307
	B. <u>Bituminous Materials</u>
	Qantity: 4 to 10 Mass % of total mix
	Tsts: 1-Q, Quality Test for every 40t or 200 drums
	C. <u>Mix</u>
	Same tests as for Item 307
	D. <u>Hydrated Lime</u>
	Same tests as for Item 307
	E. <u>Mineral Filler</u> Same tests as for Item 307
	F. <u>Compacted Pavement</u>
	Same tests as for Item 307
Item 310 - Bituminous Concrete Surface	A. <u>Aggregate</u>
Course, Hot-Laid	Same tests as for Item 307
	B. <u>Bituminous Materials</u>
	Quantity: 5 to 8 Mass % of total dry aggregates
	C. <u>Mix</u>
	Same tests as for Item 307
	D. <u>Hydrated Lime</u>
	Same tests as for Item 307
	E. <u>Mineral Filler</u>
	Same tests as for Item 307
	F. <u>Compacted Pavement</u>
	Same tests as for Item 307

PART E - SURFACE COURSE

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
ITEMS OF WORK Portland Cement Concrete Pavement	 A. <u>Cement</u> Quality: 9.00 bags cu.m. (40Kg/bag) Tests: For every 2000 bags or fraction thereof 1-Q, Quality Test B. <u>Fine Aggregate</u> Quantity: 1 0.05 cu.m./cu.m. concrete (if rounded coarse aggregate is used) 2. 0.54 cu.m./cu.m. concrete (if angular coarse aggregate is used) Tests: For every 1500 cu.m. or fraction thereof: a. For a coarse not yet tested, or failed in previous quality test: 1-Q, Quality Test For: Grading, Elutriation (Wash), Bulk Specific Gravity, Absorption Mortar Strength, Soundness, Organic Impurities, Unit Weight, % Clay Lumps and Shale. b. For a source previously tested and passed Quality Test: 1-Q, Quality Test for: Grading, Elutriation (Wash), Bulk Specific Gravity, Absorption Mortar Strength. For every 75 cu.m. or fraction thereof 1-G, Grading Test C. <u>Course Aggregate</u> Quantity: 1. 0.77 cu.m/cu.m concrete (if rounded coarse aggregate is used) 2. 0.68 cu.m/cu.m concrete (if angular coarse aggregate is used) 2. 0.68 cu.m/cu.m concrete (if angular coarse aggregate is used) 2. 0.68 cu.m/cu.m concrete (if angular coarse aggregate is used) Tests: For every 1500 cu.m or fraction Thereof a. For a source previously tested and passed quality tests: 1-Q, Quality Test for: Grading, Bulk Specific Gravity, Absorption and Abrasion For every 75 cu. m or fraction thereof: 1-G Grading Test D. <u>Water</u>
	aggregate is used) 2. 0.68 cu.m/cu.m concrete (if angular coarse aggregate is used) Tests: For every 1500 cu.m or fraction Thereof a. For a source previously tested and passed quality tests: 1-Q, Quality Test for: Grading, Bulk Specific Gravity, Absorption and Abrasion For every 75 cu.m or fraction thereof: 1-G Grading Test
	 Tests: 1-Certificate from Project Engineer or 1- Q, Quality Test, if source is questionable E. Joint Filler 1. Poured Joint Filler 1-Q, Quality Test on each type of ingredient for each shipment 2. Premolded Joint Filler 1-Q, Quality Test on each thickness of filler for each shipment
	 F. <u>Special Curing Agents</u> 1-Q, Quality Test for each shipment G. <u>Steel Bars</u> For every 10,000 kg. or fraction thereof for each size 1-Q, Quality Test for Bending, Tension and Chemical Analysis

PART E - SURFACE COURSE

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
	 H. <u>Concrete</u> Flexural Strength Test on Concrete Beam Sample 1-set consisting of 3 beam samples shall represent a 330 sq. m of pavement, 230 mm depth or fraction thereof placed each day. Volume of concrete not more than 75 cu.m. I. <u>Completed Pavement</u> Thickness determination by concrete core drilling on a lot basis Five (5) holes per km per lane or five (5) holes per 500 m when 2 lanes are poured concurrently.

PART F - BRIDGE CONSTRUCTION

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 400 - Piling	 A. <u>Timber Piles</u> 1-Inspection Report for each size and shipment of timber B. <u>Concrete Piles</u> a. Concrete Same tests as for Item 405 b. Reinforcing Steel Same tests as for Item 404 C. <u>Structural Piles</u> 1-Q, Quality Test/Mill Test Certificate 1-IR, Inspection Report
Item 401 - Railings	 A. <u>Concrete</u> Same tests as for Item 405, Class C B. <u>Reinforcing Steel</u> Same tests as for Item 404
Item 402 - Timber Structures	1-Q, Quality Test on Manufacturer's Certificate for each type of materials used 1-Inspection Report for each type and shipment of timber
Item 403 - Metal Structures	 1-Q, Quality Test or Mill Test Certificate for each type of materials used 1-Inspection Report for each type and shipment of metal used
Item 404 - Reinforcing Steel	 A. <u>Bar Reinforcement for Concrete</u> for every 10,000 kg or fraction thereof for each size: 1-Q, Quality Test for Bending, Tension and Chemical Analysis B. <u>Wire and Wire Mesh</u> 1-Q, Quality Test
Item 405 - Structural Concrete	A. <u>Cement</u> Quantity: (40 kg/bag) Class A 9.0 bags/cu.m. of concrete Class B 8.0 bags/cu.m. of concrete Class C 9.5 bags/cu.m. of concrete Class P 11.0 bags/cu.m. of concrete Tests: For every 2000 bags or fraction thereof 1-Q, Quality Test

PART F - BRIDGE CONSTRUCTION

PART F - BRIDGE CONSTRUCTION ITEMS OF WORK	MINIMUM TEST REQUIREMENTS	
	B. Fine Aggregate	
	Quantity: cu.m./cu.m. of concrete	
	For Rounded For Angular	
	Class A 0.50 0.54	
	Class B 0.45 0.52	
	Class C 0.53 0.59	
	Class P 0.44 0.47	
	Tests: For every 1500 cu.m or fraction	
	thereof	
	 a. For a source not yet tested or failed in previous quality test 	
	1-Q, Quality Test for: Grading, Elutriation	
	(Wash), Bulk Specific Gravity, Absorption, Mortar	
	Strength, Soundness, Organic Impurities, Unit	
	Weight, % Clay Lumps and Shale	
	b. For a source previously tested and passed	
	quality test:	
	1-Q, Quality Test for: Grading, Elutriation (Wash),	
	Bulk Specific Gravity, Absorption, and	
	Mortar Strength	
	For every 75 cu.m. or fraction thereof:	
	1-G, Grading Test	
	C. <u>Coarse Aggregates</u>	
	Quantity: cu.m./cu.m. of concrete	
	For Rounded For Angular	
	Class A 0.77 0.68	
	Class B 0.82 0.73	
	Class C 0.70 0.68	
	Class P 0.68 0.65 Tests: For every 1500 cu.m or fraction thereof	
	a. For a source not yet tested or failed in	
	previous quality tests:	
	1-Q, Quality Test for: Grading, Bulk	
	Specific Gravity, Absorption, Abrasion,	
	Soundness and Unit Weight	
	b. For a source previously tested and passed	
	quality test:	
	1-Q, Quality Test for Grading, Absorption,	
	Bulk Specific Gravity and Abrasion	
	For every 75 cu.m. or fraction thereof:	
	1-G, Grading Test D. Water	
	1-Certificate from Project Engineer	
	1-Q, Quality Test, if source is questionable	
	E. <u>Premolded Filler for expansion joints</u>	
	1-Q, Quality Test on each thickness of filler for	
	each shipment	
	F. Steel Reinforcement	
	1-Q, Quality Test for every 10,000 kg or fraction	
	thereof for each size	
	G. <u>Concrete</u>	
	Compressive strength test on concrete cylinder	
	samples. 1 set consisting of 3 concrete cylinder	
	samples shall be taken from each day's pouring	
	and to represent not more than 75 cu.m of	
11	concrete or fraction thereof	

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS		
Item 406 -	Prestressed Concrete Structures	 A. <u>Concrete</u> Same tests as for Item 405, Class P B. <u>Steel Reinforcement</u> Same tests as for Item 404 C. <u>Wire Strand</u> 1-Q, for every 20 t or fraction thereof 		
Item 407 -	Concrete Structures	Same tests as for Items 403, 404, 405 and 411. Elastomeric Bearing Pad will be tested to determine its quality		
Item 408 -	Steel Bridges	Same tests as for Items 403 and 411 Painting: 1-Q, One 20-L can for every 100 cans or fraction thereof or 1-Q, One 4-L can for every 100 cans or fraction thereof		
Item 409 -	Welded Structural Steel	Same tests as for Item 403 and Inspection Report		
Item 410 -	Treated or Untreated Timber	Inspection Report for Timber 1-Q, Quality Test for preservatives		
Item 411 -	Paint	1-Q, One 20-L can for every 100 cans or fraction thereof or 1-Q, one 4-L can for every 100 cans or fraction thereof		

PART F - BRIDGE CONSTRUCTION

PART G - DRAINAGE AND SLOPE PROTECTION

	ITEMS OF	WORK				MINIMUM TEST REQUIREMENTS
	Pipe Culverts	s and Sto	orm Dra	ains	В.	PipesPipe for every 50 pieces: Strength, Absorptionand DimensionAlternative Requirements:1-set consisting of 3 concrete cylinder samplesfor not more than 25 pipes cast in the field, and 1-Inspection Report for each size for not more than25 pipes cast in the fieldMortar for JointCement, Fine Aggregates and Water - Sametests as for Item 405
Item 501 -	Underdrains					<u>Concrete Pipe (Non-Reinforced)</u> 0.5% of the number of pipes of each size but not less than 2, for strength, absorption and dimension Alternative Requirements: 1-set consisting of 3 concrete cylinder samples for not more than 25 pipes cast in the field, and 1- Inspection Report for each size for not more than 25 pipes cast in the field. <u>Clay Pipe</u> 1-Pipe for every 200 pieces each size, with a minimum of 2 specimens for strength, absorption and dimension.
Item 502 -	Manholes, Basins	inlets	and	Catch		<u>Concrete</u> Same tests as for Item 405, Class A <u>Lids, Cast Iron Frames and Grating</u> Inspection Report

PARIG-L	PART G - DRAINAGE AND SLOPE PROTECTION					
	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS				
ltem 503 -	Cleaning and Reconditioning Existing Drainage Structures	Inspection Report				
ltem 504 -	Riprap and Grouted Riprap	Same tests as for Item 505				
	Stone Masonry	 A. <u>Cement</u> Quantity: 2 bags/cu.m. of concrete Tests: For every 2,000 bags or fraction thereof: 1-Q, Quality Tests B. <u>Fine Aggregate</u> Quantity: 0.17 cu.m./cu.m. of concrete Tests: for every 2,000 bags or fraction thereof 1-Q, quality Test for: (Same as for Item 405) For every 75 cu.m. or fraction thereof: C. <u>Stone</u> Inspection Report D. <u>Water</u> 1-Certificate from Project Engineer or 1-Q, quality Test, if source is questionable 				
Item 506 -	Hand-Laid Embankment	Inspection Report				
Item 507 -	Sheet Piles	 A. <u>Timber Sheet Piles</u> Inspection Report B. <u>Concrete Sheet Piles</u> Same tests as for Item 400 C. <u>Steel Sheet Piles</u> Same tests as for Item 403 				
Item 508 -	Concrete Slope Protection	 A. <u>Bed Course</u> Same tests as for Item 200 B. <u>Steel Reinforcement</u> Same tests as for Item 404 C. <u>Concrete</u> Same tests as for Item 405 				
ltem 509 -	Gabions	1-Q, Quality Test for each shipment				

PART G - DRAINAGE AND SLOPE PROTECTION

PART H - MISCELLANEOUS STRUCTURE

ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 600 - Curb and/or Gutter	 A. <u>Concrete</u> Quantity: 0.078 cu.m./m (Curb only) 0.092 cu.m./m (Curb and Gutter, type A) 0.149 cu.m./m (Curb and Gutter Type B) 0.074 cu.m./m (Curb and Gutter Type C) Same tests as for Item 405 B. <u>Joint Filler</u> Same tests as for Item 311
Item 601 - Sidewalk	 A. <u>Concrete</u> Same tests as for Item 405, Class A B. <u>Premolded Expansion Joint Filler</u> Same tests as item 311
Item 602 - Monuments, Markers and Guide Posts	 A. <u>Concrete</u> Same as for Item 405 B. <u>Reinforcing Steel</u> Same tests as for Item 404 C. <u>Timber</u> Same tests as for Item 410 D. <u>Paint</u> Same tests as for Item 411

PART H - MISCELLANEOUS STRUCTURE

	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
ltem 604 -	Fencing	A. Barbed Wire, Chain Link Fabric
		1-Q, Quality Test
		B. <u>Concrete Post</u>
		Same tests as for Item 405
		Steel Reinforcement: Same test as for Item 404
Item 605 -	Road Sign	Inspection Report
Item 606 -	Pavement Markings	Same tests as for Item 411
Item 607 -	Reflective Pavement Studs	Inspection Report
Item 608 -	Topsoil	Inspection Report
ltem 609 -	Sprigging	Inspection Report
Item 610 -	Sodding	Inspection Report
Item 611 -	Tree Planting	Inspection Report

PARTI- MATERIALS DETAILS

	ITEMS OF WORK		MINIMUM TEST REQUIREMENTS
Item 700 -	Hydraulic Cement		Same tests as for Item 405
	Construction Lime (Hydrated)		1-Q, Quality test for every 100 t or fraction thereof
ltem 702 -	Bituminous Materials		Same tests as for Items 301, 302, 303, 306, 307, 308, 309 and 310
	Aggregates		Same tests as for Item of Work specified in the Bill of Quantities
Item 703A -	Mineral filler		Same tests as for Item 307
	Masonry Units		1-Q, Quality Test for every 10,000 units or fraction thereof
Item 705 -	Joint Materials		Same tests as for Item 311 and 500
Item 706 -	Concrete, Clay, Plastic and Fiber	Α.	Concrete Pipes
	Pipes		Same tests as for Item 500
		В.	Clay and other types of pipes
			Refer to the applicable requirements of AASHTO
			Test and Specification
Item 707 -	Metal Pipe		Same tests as for Item 400
ltem 708 -	Concrete Curing Materials & Admixtures		1-Q, Quality Test for each shipment
Item 709 -	Paints		Same tests as for Item 411
Item 710 -	Reinforcing Steel and Wire Rope	Α.	Reinforcing Steel
			Same tests as for Item 404
		В.	Wire Rope
			Same tests as for item 406
Item 711 -	Fence and Guardrail	Α.	Fence
		-	Same tests as for Item 604
		В.	<u>Guardrail</u>
			Same tests as for Item 603
	Structural Metal		Same tests as for Items 403 and 409
	Treated and Untreated Timber		Same tests as for Item 410
Item 714 -	Water		1-Certificate from Project Engineer or
			1-Q, Quality Test, if source is questionable

SCHEDULE OF MINIMUM TEST REQUIREMENTS GOVERNING ITEMS OF WORK OF THE DPWH STANDARD SPECIFICATIONS FOR HIGHWAYS, BRIDGES AND AIRPORTS USING TEST REQUIREMENTS AS PRACTICED BY THE NATIONAL TRANSMISSION CORPORATION (TRANSCO) FOR POWER TRANSMISSION LINE AND SUBSTATION PROJECTS

tem 101 - Removal of Structures & Obstruction None tem 102 - Excavation Same tests as for items 103, 104 and 105, which ever is applicable. (same as per DPWH Standard) tem 103 - Structure Excavation If excavated materials are wasted, the volume involved shall be reported so that quality control requirements may be adjusted accordingly. If excavated materials are incorporated into the work: Submit Project Engineer Certificate of Waste. If excavated materials are incorporated into the work: For every 1500 cu.m. or fraction thereof: 1. Specific Gravity 1. Specific Gravity 1. Crading Test 1. Plasticity Test (LL, PL, PI) 1. Laboratory Compaction Test tem 104 - Embankment/Backfill For every 1500 cu.m. or fraction thereof per source: 1. Specific Gravity 1. Laboratory Compaction Test A. Substations A. 1 Grading Fil* 1. Field Density Test for each 200 sq. m. of each layer of compacted fill A.2 Roadways * 1. Field Density Test for each 50 sq. m. of each layer of compacted fill * The layers shall be placed not exceeding 200 mm in loose measurement and compacted with approved vibro roller weighing not less than 10 tons. B. Transmission Lines B. Backfill * The layers shall be placed not exceeding 200 mm in loose measurement and compacted with approved vibro roller weighing not	PART C - EARTHWORK	
tem 101 - Removal of Structures & Obstruction None tem 102 - Excavation Same tests as for items 103, 104 and 105, which ever is applicable. (same as per DPWH Standard) tem 103 - Structure Excavation If excavated materials are wasted, the volume involved shall be reported so that quality control requirements may be adjusted accordingly. If excavated materials are incorporated into the work: Submit Project Engineer Certificate of Waste. If excavated materials are incorporated into the work: For every 1500 cu.m. or fraction thereof: 1. Specific Gravity 1. Specific Gravity 1. Crading Test 1. Plasticity Test (LL, PL, PI) 1. Laboratory Compaction Test tem 104 - Embankment/Backfill For every 1500 cu.m. or fraction thereof per source: 1. Specific Gravity 1. Laboratory Compaction Test A. Substations A. 1 Grading Fil* 1. Field Density Test for each 200 sq. m. of each layer of compacted fill A.2 Roadways * 1. Field Density Test for each 50 sq. m. of each layer of compacted fill * The layers shall be placed not exceeding 200 mm in loose measurement and compacted with approved vibro roller weighing not less than 10 tons. B. Transmission Lines B. Backfill * The layers shall be placed not exceeding 200 mm in loose measurement and compacted with approved vibro roller weighing not	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
tem 102 - Excavation Same tests as for Items 103, 104 and 105, which ever is applicable. (same as per DPWH Standard) tem 103 - Structure Excavation If excavated materials are wasted, the volume involved shall be reported so that quality control requirements may be adjusted accordingly. Submit Project Engineer Certificate of Waste. If excavated materials are incorporated into the work: For every 1500 cu.m. or fraction thereof: 1. Specific Gravity 1. Carading Test 1. Plasticity Test (LL, PL, PI) 1. Laboratory Compaction Test 1. Specific Gravity 1. Specific Gravity 1. Specific Gravity 1. Specific Gravity 1. Specific Gravity 1. Fleid Density Test for each 200 sq. m. of each layer of compacted fill A. Substations A.1 Grading Fill * 1. Field Density Test for each 50 sq. m. of each layer of compacted fill A.2 Roadways * 1. Field Density Test for each tower Term 105 - Sub-grade Preparation Same tests as for Item 104 above PART D - SUBBASE AND BASE COURSE Item 104 above ITEMS OF WORK MINIMUM TEST REQUIREMENTS For every 300 cu.m. or fraction thereof per source: 1. Grading Test 1. Abrasion Test 1. Field Density Test for each tower Term 201 - Aggregate Base Course Same tests as for Item 104 above	Item 100 - Clearing & Grubbing	None
tem 103 - Structure Excavation If excavated materials are wasted, the volume involved shall be reported so that quality control requirements may be adjusted accordingly. Submit Project Engineer Certificate of Waste. If excavated materials are incorporated into the work: Submit Project Engineer Certificate of Waste. It excavated materials are incorporated into the work: Submit Project Engineer Certificate of Waste. Item 104 - Embankment/Backfill For every 1500 cu.m. or fraction thereof per source: 1. Specific Gravity 1. Carading Test 1. Specific Gravity 1. Grading Test 1. Plasticity Test (LL, PL, PI) 1. Laboratory Compaction Test A. Substations A.1 Grading Test 1. Field Density Test for each 50 sq. m. of each layer of compacted fill A.2 Roadways * 1. Field Density Test for each 50 sq. m. of each layer of compacted fill A.2 Roadways * 1. Field Density Test for each tower Same tests as for Item 104 above PART D - SUBBASE AND BASE COURSE ITEMS OF WORK MINIMUM TEST REQUIREMENTS For every 300 cu.m. or fraction thereof per source: 1. Grading Test 1. Abrasion Test	Item 101 - Removal of Structures & Obstruction	None
If excavated materials are wasted, the volume involved shall be reported so that quality control requirements may be adjusted accordingly. If excavated materials are incorporated into the work: For every 1500 cu.m. or fraction thereof: 1 - Specific Gravity 1 - Grading Test 1 - Plasticity Test (LL, PL, PI) 1 - Laboratory Compaction Test term 104 - Embankment/Backfill For every 1500 cu.m. or fraction thereof per source: 1 - Specific Gravity 1 - Grading Test 1 - Plasticity Test (LL, PL, PI) 1 - Laboratory Compaction Test 3 - Specific Gravity 1 - Grading Test 1 - Plasticity Test (LL, PL, PI) 1 - Laboratory Compaction Test 3 - Substations A - 1 Grading Fill * 1 - Field Density Test for each 200 sq. m. of each 1 ayer of compacted fill 4 - 2 Roadways * 1 - Field Density Test for each 50 sq. m. of each 1 ayer of compacted fill 7 The layers shall be placed not exceeding 200 mm in toose measurement and compacted with approved vibro roller weighing not less than 10 tons. B. Transmission Lines B - Hackfill 1 - Field Density Test for each tower term 105 - Sub-grade Preparation 7 ART D - SUBBASE AND BASE COURSE 11 TEMS OF WORK tem 200 - Aggregate Subbase Course Same tests as for Item 104 above 7 ART D - SUBBASE COURSE 1 - Grading Test 1 - Abrasion Test 1 - Abrasion Test 1 - Abrasion Test 1 - Plasticity Test (LL, PL, PI) 1 - Laboratory Compaction Test 5 For every 30 sq. m. per layer of 150 mm of compacted depth: 1 - Field Density Test 1 - Field Density Test	Item 102 - Excavation	Same tests as for Items 103, 104 and 105, which- ever is applicable. (same as per DPWH Standard)
1- Specific Gravity 1- Grading Test 1- Plasticity Test (LL, PL, PI) 1- Laboratory Compaction Test A. Substations A.1 Grading Fill * 1 - Field Density Test for each 200 sq. m. of each layer of compacted fill A.2 Roadways * 1 - Field Density Test for each 50 sq. m. of each layer of compacted fill * A.2 Roadways * 1 - Field Density Test for each 50 sq. m. of each layer of compacted fill * The layers shall be placed not exceeding 200 mm in loose measurement and compacted with approved vibro roller weighing not less than 10 tons. B. Transmission Lines B.1 Backfill 1 - Field Density Test for each tower Same tests as for Item 104 above PART D - SUBBASE AND BASE COURSE ITEMS OF WORK MINIMUM TEST REQUIREMENTS For every 300 cu.m. or fraction thereof per source: 1 - Grading Test 1 - Abrasion Test 1 - Abrasion Test 1 - Abrasion Test 1 - Babcrity Test (LL, PL, PI) 1 - Laboratory Compaction Test 1 - Abrasion Test 1 - Abrasion Test 1 - Abrasion Test 1 - Field Density Test Etem 201 - Aggregate Ba	involved shall be reported so that quality control requirements may be adjusted accordingly.	work: For every 1500 cu.m. or fraction thereof: 1- Specific Gravity 1- Grading Test 1- Plasticity Test (LL, PL, PI)
PART D - SUBBASE AND BASE COURSE ITEMS OF WORK MINIMUM TEST REQUIREMENTS tem 200 - Aggregate Subbase Course For every 300 cu.m. or fraction thereof per source: 1- Grading Test 1- Abrasion Test 1- Plasticity Test (LL, PL, PI) 1- Laboratory Compaction Test For every 50 sq.m. per layer of 150 mm or compacted depth: 1- Field Density Test tem 201 - Aggregate Base Course Same tests as for Item 200 above	Item 104 - Embankment/Backfill	 1- Specific Gravity 1- Grading Test 1- Plasticity Test (LL, PL, PI) 1- Laboratory Compaction Test A. Substations A.1 Grading Fill * Field Density Test for each 200 sq. m. of each Iayer of compacted fill Field Density Test for each 50 sq. m. of each Iayer of compacted fill Field Density Test for each 50 sq. m. of each Iayer of compacted fill The layers shall be placed not exceeding 200 mm in Ioose measurement and compacted with approved vibroroller weighing not less than 10 tons. B. Transmission Lines B.1 Backfill
ITEMS OF WORKMINIMUM TEST REQUIREMENTStem 200 - Aggregate Subbase CourseFor every 300 cu.m. or fraction thereof per source:1- Grading Test1- Abrasion Test1- Plasticity Test (LL, PL, PI)1- Laboratory Compaction Test1- Laboratory Compaction TestFor every 50 sq.m. per layer of 150 mm or1- Field Density Test1- Field Density Testtem 201 - Aggregate Base CourseSame tests as for Item 200 above	Item 105 - Sub-grade Preparation	Same tests as for Item 104 above
tem 200 - Aggregate Subbase Course 1- Grading Test 1- Abrasion Test 1- Plasticity Test (LL, PL, PI) 1- Laboratory Compaction Test For every 50 sq.m. per layer of 150 mm of compacted depth: 1- Field Density Test tem 201 - Aggregate Base Course Same tests as for Item 200 above	PART D - SUBBASE AND BASE COURSE	
1- Grading Test 1- Abrasion Test 1- Plasticity Test (LL, PL, PI) 1- Laboratory Compaction Test For every 50 sq.m. per layer of 150 mm of compacted depth: 1- Field Density Test tem 201 - Aggregate Base Course Same tests as for Item 200 above		
tem 201 - Aggregate Base Course Same tests as for Item 200 above	Item 200 - Aggregate Subbase Course	1- Grading Test 1- Abrasion Test 1- Plasticity Test (LL, PL, PI) 1- Laboratory Compaction Test For every 50 sq.m. per layer of 150 mm of compacted depth:
	Item 201 - Aggregate Base Course	

PART E -	SURFACE COURSE	
	ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
ltem 311 -	Portland Cement Concrete Pavement	 A. <u>Cement</u> Splg.: For every 1,000 bags/brand or fraction thereof
		per brand: 1 - bag (40 kg/bag)
		Tests: 1 - Time of Setting using Vicat Apparatus
		1 - Mortar Strength Test B. <u>Fine Aggregate</u>
		Tests: a. For each new source (no previous
		tests) 1- Gradation Test
		 Decantation Test Bulk Specific Gravity & Absorption
		1- Unit Weight Determination
		 b. For each approved source (with previous acceptable test results)
		1- Gradation Test
		1- Decantation Test 1- Unit Weight Determination
		C. <u>Coarse Aggregate</u>
		Tests: a. For each new source (no previous tests)
		 1- Gradation Test 1- Bulk Specific Gravity & Absorption
		1- Unit Weight Determination
		1- Abrasion Test b. For each approved source (with
		previous acceptable test results)
		1- Gradation Test 1- Unit Weight Determination
		D. <u>Water</u>
		Tests: Certificate from Project Engineer
		E. <u>Joint Filler</u> None
		F. <u>Special Curing Agents</u> None
		G. <u>Steel Bars</u>
		Per 10,000 kg or fraction thereof of steel bars/delivery/ per size
		Tests: 1 - Mill Certificate
		 Quality Test for Bending, Tension and Unit Weight Determination in every size.
		 H. <u>Concrete</u> Mix Prop.: As determined by Transco thru Trial Mix conducted
		Tests: Per 25 m ³ or fraction thereof per pouring schedule
		1 - set of 3 concrete cylinder samples
		for Compressive Strength Test. I. <u>Completed Pavement</u> None
		None

PART F - BRIDGE CONSTRUCTION/TOWER OTHER STRUCTURES.	FOOTINGS, EQUIPMENT FOUNDATIONS, AND
ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 400 - Piling	 B. <u>Concrete Piles</u> a. Concrete Same tests as for Item 405 below b. Reinforcing Steel Same tests as for Item 404 below C. <u>Structural Piles</u> 1 - Mill Test Certificate
Item 404 - Reinforcing Steel	 A. <u>Bar Reinforcement for Concrete</u> Per 10,000 kg or fraction thereof of steel bars Tests: 1 - Mill Certificate Quality Test for Bending, Tension and Unit Weight determination in every size. B. <u>Wire and Wire Mesh - None</u>
Item 405 - Structural Concrete	 A. <u>Cement</u> Splg.: For every 1,000 bags/brand: 1 - bag (40kg/bag) Tests: 1 - Time of Setting using Vicat Apparatus 1 - Mortar Strength Test B. <u>Fine Aggregates</u> Tests: a. For each new source (no previous test) 1 - Gradation Test 1 - Decantation Test 1 - Decantation Test 1 - Bulk Specific Gravity and Absorption 1 - Unit Weight Determination b. For each approved source (with previous acceptable test results) 1 - Gradation Test 1 - Decantation Test 1 - Decantation Test 1 - Decantation Test 1 - Unit Weight
	 C. <u>Coarse Aggregates</u> Tests: a. For each new source (no previous test) 1 - Gradation Test 1 - Bulk Specific Gravity and Absorption 1 - Unit Weight Determination 1 - Abrasion Test b. For each approved source (with previous acceptable test results) 1 - Gradation Test 1 - Unit Weight Determination D. <u>Water</u> Tests: Certificate from Project Engineer E. <u>Premolded Filler for expansion joints</u> None

PART F - BRIDGE CONSTRUCTION/TOWER OTHER STRUCTURES.	FOOTINGS, EQUIPMENT FOUNDATIONS, AND
ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
	 F. <u>Concrete</u> Mix Prop.: As determined by Transco thru Trial Mix conducted Tests: 1 - set of 3 conc. cylinder samples for: a. Every leg of transmission tower b. Every equipment foundation/cluster of related foundations c. Every 25 m³ or fraction thereof per pouring schedule.
Item 407 - Other Concrete Structures	Same tests as for Item 405 above
PART G - DRAINAGE AND SLOPE PROTECTION	
	MINIMUM TEST REQUIREMENTS
Item 504 - Riprap and Grouted Riprap	Same tests as for Item 505 below
Item 505 - Stone Masonry	 A. <u>Cement</u> Mix Prop.: 1:3 of cement to clean fine aggregates Tests: Same tests as for Items 405 - A above B. <u>Fine Aggregate</u> Tests: Same tests as for Items 405 - B above C. <u>Boulder</u> Tests: Unit weight, specific gravity, Weight
Item 508 - Concrete Slope Protection	 A. <u>Bed Course</u> Same tests as for Item 200 DPWH Standard B. <u>Steel Reinforcement</u> Same tests as for Item 404 DPWH Standard C. <u>Concrete</u> Same tests as for Item 405 above
PART H - MISCELLANEOUS STRUCTURE	
ITEMS OF WORK	MINIMUM TEST REQUIREMENTS
Item 600 - Curb and/or Gutter	 A. <u>Concrete</u> Same tests as for Item 405 above B. <u>Joint Filler</u> None
Item 601 - Sidewalk	 A. <u>Concrete</u> Same tests as for Items 311 DPWH Standard and 405 above B. <u>Premolded Expansion Joint Filler</u> None
PART I - MATERIALS DETAILS	
	MINIMUM TEST REQUIREMENTS
Item 704 - Masonry Units	1 - Compressive strength test every specimen taken at random representing 500 units deliverred at site or fraction thereof.
Item 708 - Concrete Curing Materials & Admixtures	1-Quality Tests for each shipment 1-Specific Gravity

LIST OF PHILIPPINE NATIONAL STANDARDS (CONSTRUCTION MATERIALS) FOR MANDATORY IMPLEMENTATION

	BPS
CLASSIFICATION/NAME OF MATERIALS	DESIGNATION NO.
Cement and Lime	
Portland cement – Specification	PNS 7:2005
Pozzolan cement – Specification	PNS 63:2006
Ceramic and Ceramic Products	
Sanitary wares- Specification	PNS 156:1992
Electric Wires and Cables	
Unplasticized polyvinyl chloride (uPVC) electrical conduit- Specification	PNS 14:1983
Thermoplastic Electric Wires and Cables	PNS 35:1990
Electrical products- Polyvinyl chloride insulated flexible cords- Specification	PNS 163: 1994
Lamps and Related Equipment	
Ballast for tubular fluorescent lamps – General and safety requirements	PNS 12-1:1997
Ballast for tubular fluorescent lamps – Performance requirements	PNS 12-2:1997
Ballast for high pressure mercury vapor lamps – Specification	PNS 105:1986
AC supplied electronic ballasts for tubular fluorescent lamps Part 1: General	PNS 135-1:1997
and safety requirements	
AC supplied electronic ballasts for tubular fluorescent lamps Part 2:	PNS 135-2:1997
Performance requirements	
Circuit breakers, Moulded case – Specification	PNS 519:1997
Low voltage switchgear and controlgear Part 2: Circuit Breaker	PNS 1573:1997
Unplasticized polyvinyl chloride (uPVC) electrical conduit – Specification	PNS 14:1987
Double-capped fluorescent lamps- Performance specifications	PNS IEC 60081:
	2001
Lamps- Self ballasted lamps for general lighting services- Part 1: Safety	PNS 603-1:1993
requirements	DNO 000 0.4000
Lamps- Self ballasted lamps for general lighting services- Part 2: Performance	PNS 603-2:1993
requirements	DNG 10 2:2000
Lamps and related equipment- Electromagnetic ballast- Energy standards and labeling requirements	PNS 12-3:2000
Single-capped fluorescent lamps- Performance specification Section 1:	PNS 1261:1995
General	FINS 1201.1995
	PNS 13:1999
Class H Fuses – Specification Fuseholders – Specification	PNS 56:1999
Edison screw lampholders – Specification Safety specifications for incandescent lamps- Part 1: Tungsten filament lamps	PNS 80:1997 PNS 38-1:1995
for domestic and similar general lighting purposes	FINO 30-1.1990
Tungsten filament lamps for domestic and similar general lighting purposes-	PNS 38-2:1995
Part 2: Performance requirements	1 110 00-2.1330
Lampholders for tubular fluorescent lamps and starterholders – Specification	PNS 42:1997
Liquid tight flexible steel conduit – Specification	PNS 164:1988
Plugs and socket-outlets for household and similar purposes Part 1: General	PNS 1486-1:1996
requirements	1110 1700-1.1000
Plugs and socket-outlets for domestic and general use standards	PNS 1572-1:1997
Electrical products- Boxes for rigid metal conduits	PNS 1829:1999
Pressure sensitive PVC tapes for electrical insulation – Specification	PNS 79:1992
Glow-starters for fluorescent lamps	PNS 45:1997
	1110 10.1331

CLASSIFICATION/NAME OF MATERIALS	BPS DESIGNATION NO.
Knife switches – Specification	PNS 118:1992
Snap switches for general use – Specification	PNS 57:1996
Switches for household and similar fixed-electrical installations Part 1:	PNS 1485-1:1996
General requirements	
Pressure sensitive adhesive polyvinyl chloride (PVC) tapes- PVC electrical	PNS 79:1992
tapes	
Lumber and Wood Products	
Plywood – Specification	PNS 196:2000
Pipes and Fittings	
High density polyethylene (PE) pipes for potable water supply – Specification	PNS 55:1986
Polybutylene (PB) pipes for potable water supply – Specification	PNS 152:1987
Unplasticized polyvinyl chloride (uPVC) pipes for potable water supply –	PNS 65:1993
specification	
Grey iron pipes for pressure water lines- Specification	PNS 1991:2002
Steel	
Steel- Black & hot-dipped zinc-coated (galvanized) longitudinally welded steel pipes for ordinary use – Specification	PNS 26:1992
Re-rolled steel bars for concrete reinforcement – Specification	PNS 211:2000
Steel bars for concrete reinforcement – Specification	PNS 49:2000
Galvanized steel sheets and coils – Specification	PNS 67:2000
Galvanized steel sheets & coils, pre-painted – Specification	PNS 201:1990
Cold-reduced carbon steel sheet of commercial and drawing qualities:	PNS 127:2004
Specification	
Hot-dip zinc-coated carbon steel sheets	PNS 1990:2004
Continuous hot-dip aluminum zinc-coated steel sheets	PNS 1993:2004
Continuous hot-dip zinc /5% aluminum alloy coated steel sheets	PNS 2003:2004
Steel wire nails – Specification	PNS 136:2000
Cold-reduced carbon steel sheet of commercial and drawing qualities: Specification Hot-dip zinc-coated carbon steel sheets Continuous hot-dip aluminum zinc-coated steel sheets Continuous hot-dip zinc /5% aluminum alloy coated steel sheets	PNS 1990:2004 PNS 1993:2004 PNS 2003:2004



CONSTRUCTION INDUSTRY AUTHORITY OF THE PHILIPPINES (CIAP)

PHILIPPINE DOMESTIC CONSTRUCTION BOARD (PDCB)

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