



ODISHA POWER TRANSMISSION CORPORATION LIMITED

(A Govt. Of Odisha Undertaking)

Regd. Office, Janpath, Bhubaneswar -751022

Website of OPTCL “www.optcl.co.in”

(International Competitive Bidding)

**BIDDING DOCUMENTS (PLANT)
FOR
PROCUREMENT OF PLANT DESIGN, SUPPLY AND
INSTALLATION OF SUB-STATIONS (220 kV & 132 kV
OUTDOOR GIS S/S) AT KUAKHIA IN ODISHA STATE
OF INDIA UNDER PACKAGE-3A**



Under Japan International Cooperation Agency (JICA)'s ODA Loan

VOLUME-I OF III

**Employer: Odisha Power Transmission Corporation
Limited, Bhubaneswar, Odisha**

Country: India

**Project: Odisha Power Transmission System
Improvement Project**

Loan No.: ID-P245

IFB No.: CPC/JICA/ICB/3A/19-20

Identification No.: OPTCL/JICA/PKG-3A

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Invitation for Bids:
(Without Prequalification)

Invitation for Bids

(International Competitive Bidding)

Date: [26.10.2019]

Loan Agreement No: ID-P245

IFB No: CPC/JICA/ICB/3A/19-20

Reference Identification No: OPTCL/JICA/PKG-3A

1. The Government of India (herein after referred to as borrower) and Odisha Power Transmission Corporation Limited (OPTCL) (herein after referred to as executing agency) has received a ODA loan from Japan International Cooperation Agency (JICA) (formerly JBIC), in the amount of JPY 21,787 Million Japanese Yen, equivalent to approximately USD 182 Million, or approximately Rs. 1,1467 Million towards the cost of Odisha Power Transmission System Improvement Project. It is intended that part of the proceeds of this loan will be applied to eligible payments under the Contract for 10 nos. of packages- ‘Design, Supply and Installation of Sub-Station (S/S) & Transmission Lines (T/L) viz; Pkg-1: Dhenkanal (New) S/S, Pkg-2: Dhenkanal (New) T/L, Bhadrak New T/L, Kuakhia T/L, Pkg-3: Bhadrak (New) S/S, Pkg-3A: Kuakhia S/S, Pkg-4: Turumunga S/S and T/L and Chandipur S/S and T/L, Pkg-5: Gunupur S/S and T/L, Bahugram S/S and T/L, Pkg-5A: Govindpalli S/S and T/L, Pkg-6: Gondia S/S and T/L and Rajnagar S/S and T/L, Pkg-7: Kiakata S/S and T/L, Dasapala S/S and T/L and Pkg-8: Deogarh S/S and T/L, Lakhanpur S/S and T/L, Lephripada S/S and T/L and Thuapalli S/S and T/L’. Disbursement of an ODA Loan by JICA will be subject, in all respects, to the terms and conditions of the Loan Agreement, including the disbursement procedures and the “Guidelines for Procurement under JICA ODA Loans.” No party other than Government of India and OPTCL shall derive any rights from the Loan Agreement or have any claim to loan proceeds.

The above Loan Agreement will cover major part of the project cost. As for the remaining portion, Government of India and OPTCL will take appropriate measures for finance.

2. Bidding will be conducted through procedures in accordance with the applicable Guidelines for Procurement under Japanese ODA Loans, and is open to all Bidders from eligible source countries, as defined in the Loan Agreement.
3. The OPTCL now invites sealed Bids from eligible Bidders for the construction and completion of [Design, Supply and Installation of Sub-Station & Transmission Lines for **Procurement of 220/132/33 kV KUAKHIA S/S (OUTDOOR GIS) in Odisha State of India under Package-3A** (“the Facilities”). International Competitive Bidding will be conducted in accordance with JICA’s *Single-Stage Two Envelop* Bidding Procedure.
4. Eligible Bidders may obtain further information from and inspect the Bidding Documents at the office given below;

**Sr.G.M (Elect.), CPC, Floor/Room number: 1st Floor, Corporate Building, OPTCL
Street Address: Janpath, Bhubaneswar, Odisha. INDIA, ZIP Code: 751 022
Tel: 0674-2541801, Fax: 0674-2542964, Email: sgm.cpc@optcl.co.in/jica@optcl.co.in**

5. A complete set of the Bidding Documents may be purchased by interested Bidders on the submission of a written application to the address above and upon payment of a non-refundable fee of Rs. 22,400/- inclusive of GST @12% or 307.36USD or 34745JPY, by way of demand draft issued in favour of OPTCL, payable at Bhubaneswar, Odisha, India.
6. Bids must be delivered to the address above on or before **1.00 p.m.** on dated **27th November 2019** and must be accompanied by a Bid security of **INR 25 Million or JPY 39 Million or USD0.36 Million.**
7. Bids will be opened in the presence of Bidders' representatives who choose to attend at **3.30 p.m.** on dated **27th November 2019** at the office of the **Sr.G.M. (Elect.), CPC, 1st Floor Conference Hall, Corporate Building, OPTCL, Street Address: Janpath, Bhubaneswar, Odisha. INDIA, ZIP Code: 751 022, Tel: 0674-2541801, Fax: 0674-2542964, Email: sgm.cpc@optcl.co.in/jica@optcl.co.in.**

**Senior General Manager (Elect.),
CPC, 1st Floor, Corporate Building, OPTCL
Street Address: Janpath, Bhubaneswar, Odisha. INDIA, ZIP Code: 751 022
Tel: +91-0674-2541801, Fax: 0674-2542964,
Email: sgm.cpc@optcl.co.in/jica@optcl.co.in**

PART 1 - Bidding Procedures

Section I. Instructions to Bidders

The Instructions to Bidders governing this bidding process are the “Instructions to Bidders included in **Option A**, Single-Stage Two-Envelope Bidding, Section I,” of the Standard Bidding Documents for Procurement of Plant Design, Supply and Installation (version 1.1) published by JICA in February 2013. Those Instructions to Bidders are available on the JICA’s web site shown below:

http://www.jica.go.jp/english/our_work/types_of_assistance/oda_loans/oda_op_info/guide/tender/index.html

A copy of the Instructions to Bidders is also attached to these Bidding Documents.

Section I. Instructions to Bidders

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A. General

- 1. Scope of Bid**

 - 1.1 In connection with the Invitation for Bids **specified in the Bid Data Sheet (BDS)**, the Employer, as **specified in the BDS**, issues these Bidding Documents (hereinafter referred as “Bidding Documents”) for the procurement of Plant and Installation Services as specified in Section VI, Employer’s Requirements. The name, identification, and number of the lot(s) (contract(s)) comprising this International Competitive Bidding (ICB) are **specified in the BDS**.
 - 1.2 Throughout these Bidding Documents:

 - (a) the term “in writing” means communicated in written form and delivered against receipt;
 - (b) except where the context requires otherwise, words indicating the singular also include the plural and words indicating the plural also include the singular; and
 - (c) “day” means calendar day.
- 2. Source of Funds**

 - 2.1 the Borrower specified **in the BDS** has applied for or received a Japanese ODA Loans from Japan International Cooperation Agency (hereinafter referred to as “JICA”), with the number, in the amount and on the signed date of the Loan Agreement **specified in the BDS**, toward the cost of the project **specified in the BDS**. The Borrower intends to apply a portion of the proceeds of the Loan to eligible payments under the Contract(s) for which these Bidding Documents are issued.
 - 2.2 Disbursement of a Japanese ODA Loans by JICA will be subject, in all respects, to the terms and conditions of the Loan Agreement, including the disbursement procedures and the applicable Guidelines for Procurement under Japanese ODA Loans **specified in the BDS**. No party other than the Borrower shall derive any rights from the Loan Agreement or have any claim to the Loan proceeds.
 - 2.3 The above Loan Agreement will cover only part of the project cost. As for the remaining portion, the Borrower will take appropriate measures for finance.
- 3. Corrupt and Fraudulent Practices**

 - 3.1 It is JICA’s policy to require that Bidders and Contractors, as well as Borrowers, under contracts funded with Japanese ODA Loans and other Japanese ODA, observe the highest standard

of ethics during the procurement and execution of such contracts. In pursuance of this policy, JICA:

- (a) will reject a proposal for award if it determines that the Bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- (b) will recognize a Bidder or Contractor as ineligible, for a period determined by JICA, to be awarded a contract funded with Japanese ODA Loans if it, at any time, determines that the Bidder or the Contractor has engaged in corrupt or fraudulent practices in competing for, or in executing, another contract funded with Japanese ODA Loans or other Japanese ODA; and
- (c) will recognize a Contractor as ineligible to be awarded a contract funded with Japanese ODA Loans if the Contractor or a Subcontractor, who has a direct contract with the Contractor, is debarred under the cross debarment decisions by the Multilateral Development Banks. Such period of ineligibility shall not exceed three (3) years from (and including) the date on which the cross debarment is imposed.

“Cross debarment decisions by the Multilateral development Banks” is a corporate sanction in accordance with the agreement among the African Development Bank Group, Asian Development Bank, European Bank for Reconstruction and Development, Inter-American Development Bank Group and the World Bank Group signed on 9 April, 2010 (as amended from time to time). JICA will recognize the World Bank Group’s debarment of which period exceeds one year, imposed after 19 July, 2010, the date on which the World Bank Group started cross debarment, as “cross debarment decisions by the Multilateral Development Banks.”

The list of debarred firms and individuals is available at the electronic address **specified in the BDS**.

JICA will recognize a Bidder or Contractor as ineligible to be awarded a contract funded with Japanese ODA Loans if the Bidder or Contractor is debarred by the World Bank Group for the period starting from the date of the Invitation for Bid, if prequalification has not been conducted; or the date of Advertisements for Prequalification, if prequalification has been conducted, up to the signing of the contract, unless (i) such debarment period does not exceed one year, or (ii) three

(3) years have passed since such debarment decision.

If it is revealed that the Contractor was ineligible to be awarded a contract according to the above, JICA will, in principle, impose sanctions against the Contractor.

If it is revealed that a Subcontractor, who has a direct contract with the Contractor, was debarred by the World Bank Group on the subcontract date, JICA will, in principle, require the Borrower to have the Contractor cancel the subcontract immediately, unless (i) such debarment period does not exceed one year, or (ii) three (3) years have passed since such debarment decision. If the Contractor refuses, JICA will require the Borrower to declare invalidity or cancellation of the contract and demand the refund of the relevant proceeds of the Loan or any other remedies on the grounds of contractual violation.

3.2 Furthermore, Bidders shall be aware of the provision stated in Sub-Clause 42.2.1 (c) of Section VII. General Conditions.

4. Eligible Bidders

4.1 A Bidder may be a firm that is a single entity or any combination of such entities in the form of a joint venture (JV) under an existing agreement or with the intent to enter into such an agreement supported by a letter of intent. In the case of a JV:

- (a) all members shall be jointly and severally liable for the execution of the Contract in accordance with the Contract terms, and
- (b) the JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the members of the JV during the bidding process and, in the event the JV is awarded the Contract, during Contract execution.

4.2 A Bidder shall not have a conflict of interest. A Bidder shall not be employed under any of the circumstances set forth below throughout the bidding/selection process and/or the execution of the Contract unless the conflict has been resolved in a manner acceptable to JICA.

- (a) A firm shall be disqualified from providing goods or non-consulting services resulting from or directly related to consulting services for the preparation or implementation of a project that it provided or were provided by any

affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm. This provision does not apply to the various firms (consultants, contractors, or suppliers) only due to the reason that those firms together are performing the Contractor's obligations under a turnkey or design and build contract.

- (b) A firm that has a close business relationship with the Borrower's professional personnel, who are directly or indirectly involved in any part of: (i) the preparation of the prequalification and Bidding Documents for the Contract, (ii) the prequalification and Bid evaluation, or (iii) the supervision of such Contract, shall be disqualified.
- (c) Based on the "One Bid Per Bidder" principle, which is to ensure fair competition, a firm and any affiliate that directly or indirectly controls, is controlled by, or is under common control with that firm shall not be allowed to submit more than one Bid, either individually or as a member in a JV. A firm (including its affiliate), if acting in the capacity of a Subcontractor in one Bid, may participate in other Bids, only in that capacity.
- (d) A firm having any other form of conflict of interest other than (a) through (c) above shall be disqualified.

4.3 A Bidder shall be from any of the eligible source countries indicated in Section V, Eligible Source Countries of Japanese ODA Loans.

4.4 A Bidder that has been determined to be ineligible by JICA in accordance with ITB 3.1 shall not be eligible to be awarded a contract.

4.5 This bidding is open only to prequalified Bidders unless **specified in the BDS.**

4.6 A Bidder shall provide such evidence of its continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.

5. Eligible Plant and Installation Service

5.1 The Plant and Installation Services to be supplied under the Contract shall have their origin in any of the eligible source countries indicated in Section V, Eligible Source Countries of Japanese ODA Loans, and all expenditures under the Contract will be limited to such Plant and Installation Services.

- 5.2 For purposes of ITB 5.1 above, “origin” means the place where the plant, or component parts thereof are mined, grown, produced or manufactured, and from which the services are provided. Plant components are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized product results that is substantially different in its basic characteristics or in purpose or utility from its components.

B. Contents of Bidding Documents

6. Sections of Bidding Documents

- 6.1 The Bidding Documents consist of Parts 1, 2, and 3, which include all the Sections indicated below, and should be read in conjunction with any Addenda issued in accordance with ITB 8

PART 1 Bidding Procedures

- Section I. Instructions to Bidders (ITB)
- Section II. Bid Data Sheet (BDS)
- Section III. Evaluation and Qualification Criteria (EQC)
- Section IV. Bidding Forms
- Section V. Eligible Source Countries of Japanese ODA Loans

PART 2 Employer’s Requirements

- Section VI. Employer’s Requirements

PART 3 Conditions of Contract and Contract Forms

- Section VII. General Conditions (GC)
- Section VIII. Particular Conditions (PC)
- Section IX. Contract Forms

- 6.2 The Invitation for Bids issued by the Employer is not part of the Bidding Documents.
- 6.3 Unless obtained directly from the Employer, the Employer is not responsible for the completeness of the Bidding Documents, responses to requests for clarification, the minutes of the pre-bid meeting (if any), or Addenda to the Bidding Documents in accordance with ITB 8. In case of any contradiction, documents obtained directly from the Employer

shall prevail.

- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Documents, and to furnish with its Bid all information and documentation as is required by the Bidding Documents.
- 7. Clarification of Bidding Documents, Site Visit, Pre-Bid Meeting**
- 7.1 A Bidder requiring any clarification of the Bidding Documents shall contact the Employer in writing at the Employer's address **specified in the BDS** or raise his enquiries during the pre-bid meeting if provided for in accordance with ITB 7.4. The Employer will respond in writing to any request for clarification, provided that such request is received no later than fourteen (14) days prior to the deadline for submission of Bids. The Employer shall forward copies of its response to all Bidders who have acquired the Bidding Documents in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. If so **specified in the BDS**, the Employer shall also promptly publish its response at the web page **identified in the BDS**. Should the clarification result in changes to the essential elements of the Bidding Documents, the Employer shall amend the Bidding Documents following the procedure under ITB 8 and ITB 24.2.
- 7.2 The Bidder is advised to visit and examine the site where the plant is to be installed and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a contract for the provision of Plant and Installation Services. The costs of visiting the site shall be at the Bidder's own expense.
- 7.3 The Bidder and any of its personnel or agents will be granted permission by the Employer to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the Employer and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.

- 7.4 The Bidder's designated representative is invited to attend a pre-bid meeting, if **so specified in the BDS**. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage. A site visit will be conducted by the Employer at the time of the pre-bid meeting, if **so specified in the BDS**.
- 7.5 The Bidder is requested to submit any questions in writing, to reach the Employer not later than one (1) week before the meeting.
- 7.6 Minutes of the pre-bid meeting, if applicable, including the text of the questions asked by Bidders, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Documents in accordance with ITB 6.3. Any modification to the Bidding Documents that may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an addendum pursuant to ITB 8 and not through the minutes of the pre-bid meeting. Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.
- 8. Amendment of Bidding Documents**
- 8.1 At any time prior to the deadline for submission of Bids, the Employer may amend the Bidding Documents by issuing addenda.
- 8.2 Any addendum issued shall be part of the Bidding Documents and shall be communicated in writing to all who have obtained the Bidding Documents from the Employer in accordance with ITB 6.3. If **so specified in the BDS**, the Employer shall also promptly publish the addendum on the Employer's web page in accordance with ITB 7.1.
- 8.3 To give Bidders reasonable time in which to take an addendum into account in preparing their Bids, the Employer may extend the deadline for the submission of Bids, pursuant to ITB 24.2.

C. Preparation of Bids

- 9. Cost of Bidding**
- 9.1 The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Employer shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

- 10. Language of Bid** 10.1 The Bid, as well as all correspondence and documents relating to the Bid exchanged by the Bidder and the Employer, shall be written in the language **specified in the BDS**. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language of Bid, in which case, for purposes of interpretation of the Bid, such translation shall govern.
- 11. Documents Comprising the Bid**
- 11.1 The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Bid containing the documents listed in ITB 11.2 and the other the Price Bid containing the documents listed in ITB 11.3, both envelopes enclosed together in an outer single envelope.
- 11.2 The Technical Bid submitted by the Bidder shall comprise the following:
- (a) Letter of Technical Bid;
 - (b) Bid Security, in accordance with ITB 21;
 - (c) Acknowledgment of Compliance with the Guidelines for Procurement under Japanese ODA Loans (Form ACK), which shall be signed and dated by the Bidder's authorized representative;
 - (d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 22.2;
 - (e) in the case of a Bid submitted by a JV, a copy of the JV agreement, or letter of intent, signed by all members, to enter into a JV including a draft agreement, indicating at least the parts of the Plant to be executed by the respective members;
 - (f) documentary evidence establishing in accordance with ITB 14 that the Plant and Installation Services offered by the Bidder in its Bid or in any alternative Bid, if permitted, are eligible;
 - (g) documentary evidence in accordance with ITB 15 establishing the Bidder's eligibility and qualifications to perform the Contract if its Bid is accepted;
 - (h) Technical Proposal in accordance with ITB 17;
 - (i) documentary evidence establishing in accordance with ITB 16 that the Plant and Installation Services offered by

the Bidder conform to the Bidding Documents;

- (j) alternative Bids, if permissible, in accordance with ITB 13;
- (k) list of Subcontractors, in accordance with ITB 17.2 and 17.3; and
- (l) any other document **required in the BDS**.

11.3 The Price Bid submitted by the Bidder shall comprise the following:

- (a) Letter of Price Bid;
- (b) completed Price Schedules, in accordance with ITB 12 and 18;
- (c) alternative Price Bids, at the Bidder's option and if permissible, in accordance with ITB 13; and
- (d) any other document **required in the BDS**.

12. Letters of Bid and Schedules

12.1 The Bidder shall complete the Letters of Technical Bid and Price Bid, including the appropriate Technical and Price Schedules, using the relevant forms furnished in Section IV, Bidding Forms. The forms must be completed without any alterations to the text, and no substitutes shall be accepted except as provided under ITB 22.2. All blank spaces shall be filled in with the information requested.

13. Alternative Bids

13.1 **The BDS indicates** whether alternative Bids are allowed. If they are allowed, **the BDS will also indicate** whether they are permitted in accordance with ITB 13.3, **or** invited in accordance with ITB 13.2 and/or ITB 13.4.

13.2 When alternatives to the Time Schedule are explicitly invited, a statement to that effect will be included in the BDS, and the method of evaluating different time schedules will be described in Section III, Evaluation and Qualification Criteria.

13.3 Except as provided under ITB 13.4 below, Bidders wishing to offer technical alternatives to the Employer's requirements as described in the Bidding Documents must also provide:(i) a price at which they are prepared to offer a plant meeting the Employer's requirements; and (ii) all information necessary for a complete evaluation of the alternatives by the Employer, including drawings, design calculations, technical specifications, breakdown of prices, and proposed installation methodology and

other relevant details. Only the technical alternatives, if any, of the lowest evaluated Bidder conforming to the basic technical requirements shall be considered by the Employer.

- 13.4 When Bidders are **invited in the BDS** to submit alternative technical solutions for specified parts of the facilities, such parts shall be described in Section VI, Employer's Requirements. Technical alternatives that comply with the performance and technical criteria specified for the Plant and Installation Services shall be considered by the Employer on their own merits, pursuant to ITB 35.2.
- 14. Documents Establishing the Eligibility of the Plant and Installation Services**
- 14.1 To establish the eligibility of the Plant and Installation Services in accordance with ITB 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section IV, Bidding Forms.
- 15. Documents Establishing the Eligibility and Qualifications of the Bidder**
- 15.1 In accordance with Section III, Evaluation and Qualification Criteria, if the prequalification process was conducted prior to the bidding process, the Bidder shall provide in the corresponding information sheets included in Section IV, Bidding Forms, (i) updated information on any assessed aspect that changed from that time to establish that the Bidder continues to meet the criteria used at the time of prequalification and (ii) the requested information on the additional qualification criteria stated in Section III, Evaluation and Qualification Criteria, or if the assessment of qualification criteria was not conducted prior to the bidding process, the Bidder shall provide the information requested in the corresponding information sheets included in Section IV, Bidding Forms.
- 15.2 Any change in the structure or formation of a Bidder after being prequalified and invited to bid (including, in the case of a JV, any change in the structure or formation of any member thereto) shall be subject to the written approval of the Employer prior to the deadline for submission of Bids. Such approval shall be denied if (i) such change has not taken place by the free choice of the firms involved; (ii) as a consequence of the change, the Bidder no longer substantially meets the qualification criteria set forth in the Prequalification Documents; or (iii) in the opinion of the Employer, the change may result in a substantial reduction in competition. Any such change should be submitted to the Employer not later than fourteen (14) days after the date of the Invitation for Bids.

- 16. Documents establishing conformity of the Plant and Installation Services**
- 16.1 The documentary evidence of the conformity of the Plant and Installation Services with the Bidding Documents may be in the form of literature, drawings and data, and shall include:
- (a) a detailed description of the essential technical and performance characteristics of the Plant and Installation Services, including the functional guarantees of the proposed Plant and Installation Services, in response to the Specifications. The functional guarantees of the proposed Plant and Installation Services shall be stated in the applicable form in Section IV, Bidding Forms;
 - (b) a list giving full particulars, including available sources, of all spare parts, special tools, etc., necessary for the proper and continuing functioning of the plant for the period specified in the BDS, following completion of Plant and Installation Services in accordance with the provisions of Contract; and
 - (c) Adequate evidence demonstrating the substantial responsiveness of the Plant and Installation Services to those Specifications. Bidders shall note that standards for workmanship, materials and equipment designated by the Employer in the Bidding Documents are intended to be descriptive (establishing standards of quality and performance) only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalog numbers in its Technical Proposal, provided that it demonstrates to the Employer's satisfaction that the substitutions are substantially equivalent or superior to the standards designated in the Specifications.
- 17. Technical Proposal, Subcontractors**
- 17.1 The Bidder shall furnish a Technical Proposal, including a statement of work methods, equipment, personnel, schedule, safety plan, and any other information as stipulated in Section IV, Bidding Forms in sufficient detail to demonstrate substantial responsiveness of the Bidder's proposal to the Employer's Requirements and the completion time.
- 17.2 For major items of Plant and Installation Services as listed by the Employer in Section III, Evaluation and Qualification Criteria, which the Bidder intends to purchase or subcontract, the Bidder shall give details of the name and nationality of the proposed Subcontractors, including manufacturers, for each of those items. In addition, the Bidder shall include in its Technical Proposals information establishing compliance with the requirements specified by the Employer for these items.

Bidders are free to list more than one Subcontractor against each item of the Plant and Installation Services. Quoted rates and prices will be deemed to apply to whichever Subcontractor is appointed, and no adjustment of the rates and prices will be permitted.

17.3 The Bidder shall be responsible for ensuring that any Subcontractor proposed complies with the requirements of ITB 4, and that any Plant or Installation Services to be provided by the Subcontractor comply with the requirements of ITB 5 and ITB 16.1.

18. Bid Prices and Discounts

18.1 **Unless otherwise specified in the BDS,** Bidders shall quote for the entire Plant and Installation Services on a “single responsibility” basis such that the total Bid Price covers all the Contractor’s obligations mentioned in or to be reasonably inferred from the Bidding Documents in respect of the design, manufacture, including procurement and subcontracting (if any), delivery, construction, installation and completion of the plant. This includes all requirements under the Contractor’s responsibilities for testing, pre-commissioning and commissioning of the plant and, where so required by the Bidding Documents, the acquisition of all permits, approvals and licenses, etc.; the operation, maintenance and training services and such other items and services as may be specified in the Bidding Documents, all in accordance with the requirements of the General Conditions. Items against which no price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed to be covered by the prices for other items.

18.2 Bidders are required to quote the price for the commercial, contractual and technical obligations outlined in the Bidding Documents.

18.3 Bidders shall give a breakdown of the prices in the manner and detail called for in the Price Schedules included in Section IV, Bidding Forms.

18.4 Depending on the scope of the Contract, the Price Schedules may comprise up to the seven (7) schedules listed below. Separate numbered Schedules included in Section IV, Bidding Forms, from those numbered 1-4 below, shall be used for each of the elements of the Plant and Installation Services. The total amount from each Schedule corresponding to an element of the Plant and Installation Services shall be summarized in the schedule titled Grand Summary (Schedule 6) giving the

total Bid Price(s) to be entered in the Letter of Price Bid.

Schedule No. 1 Plant (including Mandatory Spare Parts) Supplied from Abroad

Schedule No. 2 Plant (including Mandatory Spare Parts) Supplied from within the Employer's Country

Schedule No. 3 Design Services

Schedule No. 4 Installation Services

Schedule No. 5 Provisional Sums

Schedule No. 6 Grand Summary (Schedule Nos. 1 to 5)

Schedule No. 7 Recommended Spare Parts (Spare Parts for Operation and Maintenance)

Bidders shall note that the Plant and equipment included in Schedule Nos. 1 and 2 above **exclude** materials used for civil, building and other construction works. All such materials shall be included and priced under Schedule No. 4, Installation Services.

18.5 In the Schedules, Bidders shall give the required details and a breakdown of their prices as follows, **unless otherwise provided in the BDS** as for tax liabilities in the Employer's country:

(a) Plant to be supplied from abroad (Schedule No. 1):

The price of the plant shall be quoted on CIP-named place of destination basis as **specified in the BDS**.

(b) Plant manufactured within the Employer's country (Schedule No. 2):

The price of the Plant shall be quoted on an EXW Incoterm basis (such as "ex-works," "ex-factory," "ex-warehouse" or "off-the-shelf," as applicable), and includes Goods and Services Tax(GST) and all other taxes payable in the Employer's country on the Plant, as of twenty-eight (28) days prior to the deadline for submission of Bids, if the Contract is awarded to the Bidder.

(c) Design Services (Schedule No. 3).

(d) Installation Services shall be quoted separately (Schedule

No. 4) and shall include rates or prices for local transportation to named place of final destination as **specified in the BDS**, insurance and other services incidental to delivery of the Plant, all labor, contractor's equipment, temporary works, materials, consumables and all matters and things of whatsoever nature, including operations and maintenance services, the provision of operations and maintenance manuals, training, etc., where identified in the Bidding Documents, as necessary for the proper execution of the installation and other services, including all taxes, duties, levies and charges payable in the Employer's country as of twenty-eight (28) days prior to the deadline for submission of Bids.

- (e) Recommended spare parts shall be quoted separately (Schedule 7) as specified in either subparagraph (a) or (b) above in accordance with the origin of the spare parts.

18.6 The latest edition (as of the Base Date) of Incoterms, published by the International Chamber of Commerce shall govern.

18.7 The prices shall be either fixed or adjustable as **specified in the BDS**.

- (a) In the case of Fixed Price, prices quoted by the Bidder shall be fixed during the Bidder's performance of the Contract and not subject to variation on any account. A Bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.
- (b) In the case of Adjustable Price, prices quoted by the Bidder shall be subject to adjustment during performance of the Contract to reflect changes in the cost elements such as labor, material, transport and Contractor's equipment in accordance with the procedures specified in the corresponding Appendix to the Contract Agreement. A Bid submitted with a fixed price quotation will not be rejected, but the price adjustment will be treated as zero. Bidders are required to indicate the source of labor and material indices in the corresponding Form in Section IV, Bidding Forms.

18.8 If so indicated in ITB 1.1, Bids are being invited for individual lots (contracts) or for any combination of lots (packages). Bidders wishing to offer any price reduction (discount) for the award of more than one Contract shall specify in their Letter

of Price Bid the price reductions applicable to each package, or alternatively, to individual Contracts within the package, and the manner in which the price reductions will apply.

18.9 Bidders wishing to offer any unconditional discount shall specify in their Letter of Price Bid the offered discounts and the manner in which price discounts will apply.

19. Currencies of Bid and Payment

19.1 The currency(ies) of the Bid shall be, as **specified in the BDS**. Payment of the Contract Price shall be made in the currency or currencies in which the Bid Price is expressed in the Bid of the successful Bidder.

19.2 Bidders may be required by the Employer to justify, to the Employer's satisfaction, their local and foreign currency requirements.

20. Period of Validity of Bids

20.1 Bids shall remain valid for the period **specified in the BDS** after the Bid submission deadline date prescribed by the Employer pursuant to ITB 24.1. A Bid valid for a shorter period shall be rejected by the Employer as non-responsive.

20.2 In exceptional circumstances, prior to the expiration of the Bid validity period, the Employer may request Bidders to extend the period of validity of their Bids. The request and the responses shall be made in writing. The Bid Security shall also be extended for twenty-eight (28) days beyond the deadline of the extended validity period. A Bidder may refuse the request without forfeiting its Bid Security. A Bidder granting the request shall not be required or permitted to modify its Bid, except as provided in ITB 20.3.

20.3 If the award is delayed by a period exceeding fifty-six (56) days beyond the expiry of the initial Bid validity, the Contract Price shall be determined as follows:

(a) In the case of Fixed Price Contracts, the Contract Price shall be the Bid Price adjusted by the factor specified in the BDS.

(b) In the case of Adjustable Price Contracts, to determine the Contract Price, the fixed portion of the Bid Price shall be adjusted by the factor specified in the BDS.

(c) In any case, Bid evaluation shall be based on the Bid Price without taking into consideration the effect of the corrections indicated above.

21. Bid Security

21.1 The Bidder shall furnish as part of its Bid a Bid Security in the amount and currency **specified in the BDS.**

21.2 The Bid Security shall be a demand guarantee in any of the following forms at the Bidder's option:

(a) an unconditional guarantee issued by a bank or financial institution (such as an insurance, bonding or surety company);

(b) an irrevocable letter of credit;

(c) a cashier's or certified check; or

(d) another security **specified in the BDS**

From a reputable source from an eligible source country. If the unconditional guarantee is issued by an insurance company or a bonding company located outside the Employer's Country, the issuer shall have a correspondent financial institution located in the Employer's Country to make it enforceable. In the case of a bank guarantee, the Bid Security shall be submitted either using the Bid Security Form included in Section IV, Bidding Forms or in another substantially similar format approved by the Employer prior to Bid submission. In either case, the form must include the complete name of the Bidder. The Bid Security shall be valid for twenty-eight (28) days beyond the original validity period of the Bid, or beyond any period of extension if requested under ITB 20.2.

21.3 Any Bid not accompanied by a substantially responsive Bid Security shall be rejected by the Employer as non-responsive.

21.4 The Bid Security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's signing of the Contract and furnishing of the Performance Security pursuant to ITB 44.

21.5 The Bid Security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required Performance Security.

21.6 The Bid Security may be forfeited:

- (a) If a Bidder withdraws its Bid during the period of Bid validity specified by the Bidder on the Letters of Technical Bid and Price Bid, or any extension thereto provided by the Bidder; or
- (b) If the successful Bidder fails to:
 - (i) Sign the Contract in accordance with ITB 43; or
 - (ii) Furnish a Performance Security in accordance with ITB 44.

21.7 The Bid Security of a JV shall be in the name of the JV that submits the Bid. If the JV has not been legally constituted into a legally enforceable JV at the time of bidding, the Bid Security shall be in the names of all future members as named in the letter of intent referred to in ITB 4.1 and ITB 11.2.

22. Format and Signing of Bid

22.1 The Bidder shall prepare one original of the Technical Bid and one original of the Price Bid as described in ITB 11 and clearly mark it "TECHNICAL BID - ORIGINAL" and "PRICE BID - ORIGINAL." Alternative Bids, if permitted in accordance with ITB 13, shall be clearly marked "ALTERNATIVE". In addition, the Bidder shall submit copies of the Technical and Price Bids, in the number **specified in the BDS** and clearly mark them "COPY." In the event of any discrepancy between the original and the copies, the original shall prevail.

22.2 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as **specified in the BDS** and shall be attached to the Bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid where entries or amendments have been made shall be signed or initialed by the person signing the Bid.

22.3 In case the Bidder is a JV, the Bid shall be signed by an authorized representative of the JV on behalf of the JV, and so as to be legally binding on all the members as evidenced by a power of attorney signed by their legally authorized representatives.

22.4 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the

Bid.

D. Submission and Opening of Bids

23. Submission, Sealing and Marking of Bids

23.1 Bidders may submit their Bids by mail or by hand. Procedures for submission, sealing and marking are as follows:

Bidders shall enclose the original of the Technical Bid, the original of the Price Bid, and each copy of the Technical Bid and of the Price Bid, including alternative Bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as "TECHNICAL BID – ORIGINAL," "PRICE BID – ORIGINAL," "TECHNICAL BID – COPY," "PRICE BID – COPY," and "ALTERNATIVE," as appropriate. These envelopes containing the original, the copies and the alternative(s), if any, shall then be enclosed in one single envelope. The rest of the procedure shall be in accordance with ITB 23.2 through 23.5.

23.2 The inner and outer envelopes shall:

- (a) Bear the name and address of the Bidder;
- (b) Be addressed to the Employer in accordance with ITB 24.1; and
- (c) Bear the specific identification of this bidding process specified in BDS 1.1.

23.3 The outer envelopes and the inner envelopes containing the Technical Bid shall bear a warning not to open before the time and date for the opening of Technical Bids, in accordance with ITB 27.1.

23.4 The inner envelopes containing the Price Bid shall bear a warning not to open until advised by the Employer in accordance with ITB 27.7.

23.5 If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement Or premature opening of the Bid.

24. Deadline for Submission of Bids

24.1 Bids must be received by the Employer at the address and no later than the date and time **specified in the BDS**.

24.2 The Employer may, at its discretion, extend the deadline for the submission of Bids by amending the Bidding Documents in accordance with ITB 8, in which case all rights and

obligations of the Employer and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

25. Late Bids

25.1 The Employer shall not consider any Bid that arrives after the deadline for submission of Bids, in accordance with ITB 24. Any Bid received by the Employer after the deadline for submission of Bids shall be declared late, rejected, and returned unopened to the Bidder.

26. Withdrawal, Substitution, and Modification of Bids

26.1 A Bidder may withdraw, substitute, or modify its Bids – Technical or Price – after it has been submitted by sending a written notice, duly signed by an authorized representative, and shall include a copy of the authorization in accordance with ITB 22.2, (except that withdrawal notices do not require copies). The corresponding substitution or modification of the Bid must accompany the respective written notice. All notices must be:

- (a) prepared and submitted in accordance with ITB 22 and ITB 23 (except that withdrawal notices do not require copies), and in addition, the respective envelopes shall be clearly marked “WITHDRAWAL,” “SUBSTITUTION,” “MODIFICATION;” and
- (b) received by the Employer prior to the deadline prescribed for submission of Bids, in accordance with ITB 24.

26.2 Bids requested to be withdrawn in accordance with ITB 26.1 shall be returned unopened to the Bidders.

26.3 No Bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of Bids and the expiration of the period of Bid validity specified by the Bidder on the Letter of Technical Bid and on the Letter of Price Bid or any extension thereof.

27. Bid Opening

27.1 Except in the cases specified in ITB 25 and ITB 26, the Employer shall publicly open and read out in accordance with ITB 27.5 all Technical Bids received by the deadline, at the date, time and place **specified in the BDS**, in the presence of Bidders’ designated representatives and anyone who choose to attend. The Price Bids will remain unopened and will be held in custody of the Employer until the time of their opening to be specified in accordance with ITB 27.7.

27.2 First, envelopes marked “WITHDRAWAL” shall be opened and read out and the envelope with the corresponding Bid shall not

be opened, but returned to the Bidder. No Bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and is read out at opening of the Technical Bids.

- 27.3 Second, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Technical Bid and/or Substitution Price Bid shall be exchanged for the corresponding envelopes being substituted, which are to be returned to the Bidder unopened. Only the Substitution Technical Bid, if any, shall be opened and read out. Substitution Price Bid will remain unopened in accordance with ITB 27.1. No envelope shall be substituted unless the corresponding substitution notice contains a valid authorization to request the substitution and is read out at opening of the Technical Bids.
- 27.4 Next, outer envelopes marked "MODIFICATION" shall be opened. No Technical Bid and/or Price Bid shall be modified unless the corresponding modification notice contains a valid authorization to request the modification and is read out at the opening of Technical Bids. Only the Technical Bids, both Original as well as Modification, are to be opened and read out at the opening. Price Bids, both Original as well as Modification, will remain unopened in accordance with ITB 27.1.
- 27.5 All other envelopes holding the Technical Bids shall be opened one at a time, reading out:
- (a) The name of the Bidder;
 - (b) Whether there is a modification;
 - (c) The presence or absence of the Bid Security; and
 - (d) Any other details as the Employer may consider appropriate.

Only Technical Bids and alternative Technical Bids read out at Bid opening shall be considered for evaluation. The Employer shall neither discuss the merits of any Bid nor reject any Bid (except for late Bids, in accordance with ITB 25.1).

- 27.6 The Employer shall prepare a record of the opening of Technical Bids that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal, substitution, or modification; alternative proposals; and the presence or absence of a Bid Security. The Bidders' representatives who

are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

- 27.7 At the end of the evaluation of Technical Bids, the Employer will invite Bidders who have submitted substantially responsive Technical Bids and who have been determined as being qualified for award to attend the opening of the Price Bids. The date, time, and location of the opening of Price Bids will be advised in writing by the Employer. The opening date should allow Bidders sufficient time to make arrangements for attending the opening.
- 27.8 The Employer will notify, in writing, Bidders who have been rejected on the grounds of their Technical Bids being substantially non-responsive to the requirements of the Bidding Documents and return their Price Bids unopened.
- 27.9 The Employer shall conduct the opening of Price Bids of all Bidders who submitted substantially responsive Technical Bids, in the presence of Bidders' representatives who choose to attend at the address, date and time specified by the Employer. The Bidder's' representatives who are present shall be requested to sign a register evidencing their attendance.
- 27.10 All envelopes containing Price Bids shall be opened one at a time, reading out:
- (a) The name of the Bidder;
 - (b) Whether there is a modification;
 - (c) The Bid Price(s), including any discounts and alternative Bids; and
 - (d) Any other details as the Employer may consider appropriate.
- Only Price Bids discounts, and alternative Bids read out and recorded during the opening of Price Bids shall be considered for evaluation. No Bid shall be rejected at the opening of Price Bids.
- 27.11 The Employer shall prepare a record of the opening of Price Bids that shall include, as a minimum: the name of the Bidder, the Bid Price, (per lot if applicable), including any discounts, and alternative Bids. The Bidders' representatives who are

present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

E. Evaluation and Comparison of Bids

- 28. Confidentiality**
- 28.1 Information relating to the evaluation of Bids and recommendation of Contract award, shall not be disclosed to Bidders or any other persons not officially concerned with such process until information on Contract award is communicated to all Bidders in accordance with ITB 42.
- 28.2 Any attempt by a Bidder to influence the Employer in the evaluation of the Bids or Contract award decisions may result in the rejection of its Bid.
- 28.3 Notwithstanding ITB 28.2, from the time of Bid opening to the time of Contract award, if any Bidder wishes to contact the Employer on any matter related to the bidding process, it shall do so in writing.
- 29. Clarification of Bids**
- 29.1 To assist in the examination, evaluation, and comparison of the Technical and Price Bids, and qualification of the Bidders, the Employer may, at its discretion, ask any Bidder for a clarification of its Bid, giving a reasonable time for a response. Any clarification submitted by a Bidder that is not in response to a request by the Employer shall not be considered. The Employer's request for clarification and the response shall be in writing. No change in the substance of the Technical Bid or prices in the Price Bid, including any voluntary increase or decrease in the prices, shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the Bids, in accordance with ITB 36.
- 29.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification, its Bid may be rejected.
- 30. Deviations, Reservations, and Omissions**
- 30.1 During the evaluation of Bids, the following definitions apply:
- (a) "Deviation" is a departure from the requirements specified in the Bidding Documents;
- (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the

requirements specified in the Bidding Documents; and

- (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Documents.

31. Preliminary Examination of Technical Bids

31.1 The Employer shall examine Technical Bids to confirm that all documents and technical documentation requested in ITB 11.2 have been provided, and to determine the completeness of each document submitted.

31.2 The Employer shall confirm that the following documents and information have been provided in the Technical Bid. If any of these documents or information is missing, the Bid shall be rejected.

- (a) Letter of Technical Bid;
- (b) Written confirmation of authorization to commit the Bidder;
- (c) Bid Security; and
- (d) Technical Proposal.

32. Qualification of the Bidders

32.1 The Employer shall determine to its satisfaction whether Bidders meet the qualification criteria specified in Section III, Evaluation and Qualification Criteria, during the evaluation of Technical Bids. However, if prequalification was carried out prior to the bidding process, the Employer may carry out the assessment of the qualification criteria specified in Section III, Evaluation and Qualification Criteria, for the Bidder who submitted the lowest evaluated and substantially responsive Bid only.

32.2 The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to ITB 15.

32.3 An affirmative determination shall be a prerequisite for award of the Contract to the Bidder. A negative determination shall result in disqualification of the Bid, in which event the Employer shall return the unopened Price Bid to the Bidder.

If the assessment of the Bidder's qualification is conducted for the lowest evaluated Bidder only, in accordance with ITB 32.1, and the result of such assessment is negative, the Employer shall proceed to the next lowest evaluated Bid to make a similar determination.

32.4 The capabilities of the manufacturers and Subcontractors proposed in its Bid to be used by the Bidder will also be evaluated for acceptability in accordance with Section III, Evaluation and Qualification Criteria. Their participation should be confirmed with a letter of intent between the parties, as needed. Should a manufacturer or Subcontractor be determined to be unacceptable, the Bid will not be rejected, but the Bidder will be required to substitute an acceptable manufacturer or Subcontractor without any change to the Bid Price. Prior to signing the Contract, the corresponding Appendix to the Contract Agreement shall be completed, listing the approved manufacturers or Subcontractors for each item concerned.

33. Determination of Responsiveness of Technical Bids

33.1 The Employer's determination of a Technical Bid's responsiveness is to be based on the contents of the Bid itself, as defined in ITB 11.2.

33.2 A substantially responsive Technical Bid is one that meets the requirements of the Bidding Documents without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that,

(a) If accepted, would:

(i) affect in any substantial way the scope, quality, or performance of the Plant and Installation Services specified in the Contract; or

(ii) Limit in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the Bidder's obligations under the proposed Contract; or

(b) If rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive Bids.

33.3 The Employer shall examine the technical aspects of the Technical Bid submitted in accordance with ITB 17, in particular, to confirm that all requirements of Section VI, Employer's Requirements have been met without any material deviation, reservation, or omission.

33.4 If a Technical Bid is not substantially responsive to the requirements of the Bidding Documents, it shall be rejected by the Employer and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

**34. Nonmaterial
Nonconformities**

34.1 Provided that a Technical Bid is substantially responsive the Employer may waive any nonconformity in the Technical Bid that does not constitute a material deviation, reservation or omission.

34.2 Provided that a Technical Bid is substantially responsive, the Employer may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities in the Technical Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the price of the Price Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

34.3 Provided that a Technical Bid is substantially responsive, the Employer shall rectify quantifiable nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component. The adjustment shall be made using the method indicated in Section III, Evaluation and Qualification Criteria.

**35. Detailed
Evaluation of
Technical Bids**

35.1 The Employer will carry out a detailed technical evaluation of the Bids not previously rejected as being substantially non-responsive, in order to determine whether the technical aspects are in compliance with the Bidding Documents. The Bid that does not meet minimum acceptable standards of completeness, consistency and detail, and the specified minimum (or maximum, as the case may be) requirements for specified functional guarantees, will be rejected for non-responsiveness. In order to reach such a determination, the Employer will examine and compare the technical aspects of the Bids on the basis of the information supplied by the Bidders, taking into account the following:

- (a) overall completeness and compliance with the Employer's Requirements; conformity of the Plant and Installation Services offered with specified performance criteria, including conformity with the specified minimum (or maximum, as the case may be) requirement corresponding to each functional guarantee, as indicated in the Specification and in Section III, Evaluation and Qualification Criteria; suitability of the Plant and Installation Services offered in relation to the environmental and climatic conditions prevailing at the site; and quality, function and operation of any process

control concept included in the Bid;

- (b) Type, quantity and long-term availability of mandatory and recommended spare parts and maintenance services; and
- (c) Other relevant factors, if any, listed in Section III, Evaluation and Qualification Criteria.

35.2 Where alternative technical solutions have been allowed in accordance with ITB 13.4, and offered by the Bidder, the Employer will make a similar evaluation of the alternatives. Where alternatives have not been allowed but have been offered, they shall be ignored.

**36. Correction of
Arithmetical Errors**

36.1 During the evaluation of Price Bids, the Employer shall correct arithmetical errors on the following basis:

- (a) Where there are errors between the total of the amounts given under the column for the price breakdown and the amount given under the Total Price, the former shall prevail and the latter will be corrected accordingly;
- (b) Where there are errors between the total of the amounts of Schedule Nos. 1 to 5 and the amount given in Schedule No. 6 (Grand Summary), the former shall prevail and the latter will be corrected accordingly; and
- (c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

36.2 Bidders shall be requested to accept correction of arithmetical errors. Failure to accept the correction, in accordance with ITB 36.1, shall result in the rejection of the Bid.

**37. Conversion to
Single Currency**

37.1 For evaluation and comparison purposes, the currency(ies) of the Bid shall be converted into a single currency as **specified in the BDS**.

**38. Evaluation of
Price Bids**

38.1 The Employer shall use the criteria and methodologies indicated in this Clause. No other evaluation criteria or methodologies shall be permitted.

38.2 To evaluate a Price Bid, the Employer shall consider the following:

- (a) the Bid Price, excluding Provisional Sums and the

- provision, if any, for contingencies in the Price Schedules;
- (b) price adjustment for correction of arithmetic errors in accordance with ITB 36.1;
 - (c) price adjustment due to discounts offered in accordance with ITB 18.8 or ITB18.9;
 - (d) price adjustment due to quantifiable nonmaterial nonconformities in accordance with ITB 34.3;
 - (e) converting the amount resulting from applying (a) to (d) above, if relevant, to a single currency in accordance with ITB 37; and
 - (f) the evaluation factors indicated in Section III, Evaluation and Qualification Criteria.
- 38.3 If price adjustment is allowed in accordance with ITB 18.7, the estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.
- 38.4 If these Bidding Documents allow Bidders to quote separate prices for different lots (contracts), and the award to a single Bidder of multiple lots (contracts), the methodology to determine the lowest evaluated price of the lot (contract) combinations, including any discounts offered in the Letter of Price Bid, is specified in Section III, Evaluation and Qualification Criteria.
- 38.5 If the Bid, which results in the lowest evaluated Bid Price, is seriously unbalanced or front loaded in the opinion of the Employer, the Employer may require the Bidder to produce detailed price analyses for any or all items of the Price Schedules, to demonstrate the internal consistency of those prices with the methods and time schedule proposed. After evaluation of the price analyses, taking into consideration the terms of payments, the Employer may require that the amount of the Performance Security be increased at the expense of the Bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful Bidder under the Contract.
- 39. Comparison of Bids**
- 39.1 The Employer shall compare the evaluated prices of all substantially responsive Bids in accordance with ITB 38.2 to determine the lowest evaluated Bid.
- 40. Employer's**
- 40.1 The Employer reserves the right to accept or reject any Bid,

Right to Accept Any Bid, and to Reject Any or All Bids

and to annul the bidding process and reject all Bids at any time prior to Contract award, without thereby incurring any liability to Bidders. In case of annulment, all Bids submitted and specifically, Bid Securities, shall be promptly returned to the Bidders.

F. Award of Contract

- 41. Award Criteria** 41.1 Subject to ITB 40.1, the Employer shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated Bid and is substantially responsive to the Bidding Documents, provided further that the Bidder is determined to be eligible and qualified to perform the Contract satisfactorily.
- 42. Notification of Award** 42.1 Prior to the expiration of the period of Bid validity, the Employer shall notify the successful Bidder, in writing, that its Bid has been accepted. The notification letter (hereinafter and in the Conditions of Contract and Contract Forms called the "Letter of Acceptance") shall specify the sum that the Employer will pay the Contractor in consideration of the execution and completion of the Plant and Installation Services (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price").
- 42.2 At the same time, the Employer shall also notify all other Bidders of the results of the bidding.
- 42.3 After a Contract has been determined to be eligible for financing under Japanese ODA Loans, the following information may be made public by JICA:
- (a) name of each Bidder who has submitted a Bid;
 - (b) bid Prices as read out at Bid opening;
 - (c) name and address of the successful Bidder; and
 - (d) award date and amount of the Contract.
- 42.4 Until a formal Contract is prepared and executed, the Letter of Acceptance shall constitute a binding Contract.
- 42.5 After notification of award, unsuccessful Bidders may request, in writing, to the Employer a debriefing seeking explanations on the grounds on which their Bids were not selected. The Employer shall promptly respond, in writing, to any unsuccessful Bidders who, after the notification of award in accordance with ITB 42.1, request a debriefing.

43. Signing of Contract

- 43.1 Promptly upon notification, the Employer shall send the successful Bidder the Contract Agreement.
- 43.2 Within twenty-eight (28) days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Employer.

44. Performance Security

- 44.1 Within twenty-eight (28) days of the receipt of the Letter of Acceptance from the Employer, the successful Bidder shall furnish the Performance Security in accordance with the General Conditions of Contract, subject to ITB 38.5, using for that purpose the Performance Security Form included in Section IX, Contract Forms, or another form acceptable to the Employer. If the Performance Security furnished by the successful Bidder is in the form of a bond, it shall be issued by a bonding or insurance company that has been determined by the successful Bidder to be acceptable to the Employer. A foreign institution providing a bond shall have a correspondent financial institution located in the Employer's Country.
- 44.2 Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security. In that event the Employer may award the Contract to the next lowest evaluated Bidder whose Bid is substantially responsive and is determined by the Employer to be qualified to perform the Contract satisfactorily.

Section II. Bid Data Sheet

Bid Data Sheet

A. General			
ITB 1.1	The number of the Invitation for Bids is : OPTCL/JICA/PKG-3A		
ITB 1.1	The Employer is: Odisha Power Transmission Corporation Limited (OPTCL)		
ITB 1.1	The name, identification and number of the lot(s) (contract(s)) comprising this ICB is:		
	IFB No.	Package No.	Particular
	CPC/JICA/ICB/03A/19-20	Package 3A	Plant Design, Supply and Installation of Sub-Stations (220 kV/132 kV Outdoor GIS S/S) at Kuakhia in Odisha state of India.
ITB 2.1	The Borrower is: The Government of India (herein after referred to as borrower)		
ITB 2.1	The number of the Loan Agreement is: ID-P245 The amount of a Japanese ODA Loan is: JPY (¥) 21,787 Million The signed date of the Loan Agreement is: 15 th May 2015		
ITB 2.1	The name of the Project is: Odisha Power Transmission System Improvement Project		
ITB 2.2	The applicable Guidelines for Procurement under Japanese ODA Loans are those published in April 2012.		
ITB 3.1(c)	A list of debarred firms and individuals is available at the World Bank's website: www.worldbank.org/debarr		
ITB 4.5	This bidding is not subject to prequalification.		
B. Bidding Documents			
ITB 7.1	For <u>clarification purposes</u> only, the Employer's address is: Sr.G.M (Elect.), CPC, Floor/Room number: 1st Floor, Corporate Building, OPTCL Street Address: Janpath, Bhubaneswar, Odisha. INDIA, ZIP Code: 751 022 Tel: 0674-2541801, Fax: 0674-2542964, E-mail: sgm.cpc@optcl.co.in / jica@optcl.co.in Website of OPTCL "www.optcl.co.in"		

ITA 7.1	Responses to any request for clarification, if any, will be published on the Employer's web page indicated below. Web page: www.optcl.co.in
ITB 7.4	A pre-bid meeting will take place at the following date, time and place: Date: 08/11/2019 Time: 11:30 Hrs. Place: CPC, Floor/Room number: 1 st Floor/Conference Hall, Corporate Building, OPTCL, Street Address: Janpath, Bhubaneswar, Odisha. INDIA, ZIP Code: 751 022 A site visit conducted by the Employer will be organized for those authorized representatives of the bidders who have purchased the tender documents.
ITB 8.2	Addenda, if any, will be published on the Employer's web page: www.optcl.co.in
C. Preparation of Bids	
ITB 10.1	The language of the Bid is: English
ITB 11.2 (I)	The Bidder shall submit with its Technical Bid the following additional documents: <ul style="list-style-type: none"> • Details of Manufacturing / Fabrication / Service facilities of the Bidder or its Sub-Vendor / Sub-Manufacturer. • Type Test certificate of the Bidder or its Sub-Vendor/Manufacturer, of the Major items of Plant & Equipment (GIS Equipment with GIB, Transformers, CR panel, CT & PT, LA and Isolator) conducted as per EQC to be supplied under this contract. • Details of credential of Sub-Vendor/Manufacturer to be engaged under the Contract in satisfaction of EQC. • Details of credential of Sub-Contractor(s) to be engaged under the Contract in satisfaction of EQC.
ITB 11.3 (d)	The Bidder shall submit with its Price Bid the following additional documents: None
ITB 13.1	Alternative Bids are not permitted.
ITB 16.1 (b)	The period following completion of Plant and Installation Services during which spare parts, special tools etc. shall be available, is two (2) years.

ITB 18.1	Bidders shall quote for the entire Plant and Installation Services on a single responsibility basis.
ITB 18.4	The following sub-clauses are added: Schedule No.3-Design Service is not applicable. Schedule No. 8-Details of Taxes & Duties
ITB 18.5(a)	Name of place of destination on CIP basis shall be KOLKATA and VIZAG in India and place of final destination shall be KUAKHIA in Odisha State of India.
ITB18.5 (b)	In respect of tax liabilities in the Employer's Country; <ul style="list-style-type: none"> • Plants to be supplied from abroad (Schedule-1): Custom Duty and GST to be included in the CIP. • Plants manufactured within Employer's Country (Schedule-2): EXW Incoterm shall mean taxable value of the supplies at the final destination under GST Law plus GST.
ITB 18.5(d)	Place of final destination shall be KUAKHIA in Odisha State of India.
ITB 18.5(f)	Details of Taxes & Duties included in the Grand Summary Price in the Schedule-6 shall be mentioned separately in Schedule No. 8.
ITB 18.7	The prices quoted by the Bidder shall be adjustable.
ITB 19.1	The currency(ies) of the Bid shall be as follows: <p>(a) For those inputs to the works to be supplied from outside of the employer's country, to be quoted in Japanese Yen (¥) and/or other international trading currency or currencies USD, EURO, Great British Pound and Swiss Franc.</p> <p>(b) For those inputs to the works to be supplied from within the Employer's country, to be quoted in <i>INR</i>.</p>
ITB 20.1	The Bid validity period shall be 180 days.
ITB 20.3 (a)	Not being Fixed price contract, Not applicable.

ITB 20.3 (b)	The Fixed portion of the adjustable price contract for supply portion shall be adjusted by Increase or decrease in Wholesale Price Index (WPI) of Employer's Country or of outside the Employer's Country as the case may be, depending upon the inputs from within the Employer's Country or inputs from outside the Employer's Country. The Fixed portion of the adjustable price contract for Installation & Services portion shall be adjusted by Increase or decrease in Consumer Price Index (CPI) of Employer's Country or of outside the Employer's Country as the case may be, depending upon the inputs from within the Employer's Country or inputs from outside the Employer's Country.
ITB 21.1	The amount and currency of the Bid Security shall be INR (₹) 25 Million or JPY (¥) 39 Million or USD (\$) 0.36 Million.
ITB 21.2 (d)	Other types of acceptable securities: None
ITB 22.1	In addition to the original of the Bid, the number of copies is: two (2)
ITB 22.2	The written confirmation of authorization to sign on behalf of the Bidder shall consist of Power of Attorney or Board Resolution.
D. Submission and Opening of Bids	
ITB 24.1	<p>For <u>Bid submission purposes</u> only, the Employer's address is:</p> <p>Attention: Sr.G.M. (Elect.), CPC</p> <p>Street Address: Janpath</p> <p>Floor/Room number: 1st Floor, Corporate Building, OPTCL</p> <p>City: Bhubaneswar Odisha</p> <p>ZIP Code: 751 022</p> <p>Country: INDIA</p> <p>The deadline for Bid submission is:</p> <p>Date: [27th November, 2019]</p> <p>Time: 1.00 p.m.</p>

ITB 27.1	The Technical Bid opening shall take place at: Street Address: Janpath Floor/Room number: 1 st Floor, Corporate Building, OPTCL, Conference Hall City : Bhubaneswar Odisha Country: INDIA Date: [27 th November, 2019] Time: 3.30 p.m. <i>[The date and time should be the same as those given for the deadline for submission of Bids (ITB 24).]</i>
E. Evaluation, and Comparison of Bids	
ITB 37.1	The currency that shall be used for Bid evaluation and comparison purposes to convert all Bid Prices expressed in various currencies into a single currency is INR of Employer's Country. The source of exchange rate shall be Closing TT selling rate of State Bank of India available as on the date of Opening of the Technical Bid.

**Section III. Evaluation and Qualification
Criteria
(Without Prequalification)**

Evaluation and Qualification Criteria (Without Prequalification)

1. Evaluation

1.1 Technical Evaluation

In addition to the criteria listed in ITB 35.1 (a) – (b) the following factors shall apply:

1.1.1 Personnel

The Bidder must demonstrate that it has the personnel for the key positions that meet the following requirements:

No.	Position	Total Work Experience (years)	Experience in Similar Works (years)
1	Contractor's Representative a. To be stationed either in the Contractor's head office or the Site office in India through the contract period. b. Minimum qualification: Bachelor's Degree in Electrical or Civil Engineering. c. Must assign from the leader company of bidder.	≥ 25	≥ 15
2	Project Manager at Site a. To be stationed in the Site office in India dedicated to the project through the contract period. b. Minimum qualification: Bachelor's Degree in Electrical Engineering.	≥ 20	≥ 15
3	Construction Manager – GIS Substation a. To be stationed in the Site office in India dedicated to the project. b. Minimum qualification: Bachelor's Degree in Electrical Engineering.	≥ 15	≥ 10
4	Construction Manager – Civil for Substation a. To be stationed in the Site office in India. b. Minimum qualification: Bachelor's Degree in Civil/Architectural Engineering.	≥ 15	≥ 10
5	Control & Protection, SAS Engineer for GIS Substation a. To be stationed in the Site office in India. b. Minimum qualification: Bachelor's Degree in Electrical/Communication Engineering.	≥ 15	≥ 10
6	Communication Engineer for Substation a. To be stationed in the Site office in India. b. Minimum qualification: Bachelor's Degree in Electrical/Communication Engineering.	≥ 15	≥ 10
7	Building Facilities/Services Engineer a. To be stationed in the Site office in India.	≥ 15	≥ 10

	b. Minimum qualification: Bachelor's Degree in Electrical/Mechanical /Civil Engineering.		
8	Health & Safety (Accident Prevention) Officer a. To be stationed in the Site office in India b. Minimum qualification: Diploma in any technical field with training in Safety, Health and Environment from recognized institution.	≥ 12	≥ 7
9	Architectural/Structural/Civil Engineer for Control Buildings a. To be stationed in the Site office in India. b. Minimum qualification: Bachelor's Degree in Architectural/Civil Engineering.	≥ 15	≥ 10
10	Security Officer a. To be stationed in the Site office in India. b. Minimum qualification: Diploma in any security field with training in security from recognized institution.	≥ 12	≥ 7

The Bidder shall provide details of the proposed personnel and their experience records in Forms PER-1 and PER-2 in Section IV, Bidding Forms.

1.1.2 Equipment

The Bidder must demonstrate that it has the key equipment listed hereafter:

No.	Equipment Type and Characteristics	Minimum Number required
1	Primary Injection Tester	1
2	Secondary Injection Tester suitable for numerical type relays	1
3	High Voltage Circuit Breaker Tester (CB travel & timing)	1
4	Optical time-domain reflector (OTDR) or equiv.	1
5	Mobile Crane (not less than 15 ton)	1
6	Gas Analyzer, insulation tester, etc.	1
7	High Voltage Test set for GCB (to be carried to the site)	1
8	Voltage regulator (for CT excitation, Knee point voltage)	1

The Bidder shall provide further details of proposed items of equipment using Form EQU in Section IV, Bidding Forms.

1.1.3 Others

1.1.3.1 Type Test and Supply Record

The Bidder must furnish the type test reports for plant and equipment such as Transformers, CT&PT, Isolator, Control & Protection panels, Substation Automation System and Gas Insulated Switchgear to be supplied by the Bidder or its Sub-Vendor / Manufacturer to be certified by STL members, e.g. KEMA, Holland / CESI, Italy / CPRI, Bangalore, India / ASTA, UK / KERI, South Korea / JSTC, Japan and in case of Countries against which names of laboratory not mentioned, from an internationally accredited laboratory owned by the Government of those Countries of Origin, and meet the minimum Guaranteed Technical Particular prescribed by the Employer.

The Bidder also must furnish the supply records during last five financial years for plant and equipment.

1.1.3.2 Method Statement (Work Plan)

The Bidder must furnish with the Bid, work plans (Method Statement) to demonstrate an adequate understanding of work procedures for whole major activities in the Site. The adequacy of Bidder's proposal will be evaluated during the technical evaluation on the following documents.

- (a) Statement of general work plan and the time schedule (bar chart) for whole major activities in the scope of works.
- (b) Work procedure of land development, civil work, installation of Gas Insulated Switchgear and Power Transformers, and commissioning of substation.

1.1.3.3 Safety Plan including Security Plan

The Bidder shall provide further with the Bid, a safety plan including security plan to demonstrate that the Bidder will take an adequate safety and security measure in the Site during the whole construction phases. The adequacy of Bidder's proposal will be evaluated during the technical evaluation on the following documents.

- (a) Safety measures for prospective work items for civil and building construction
- (b) Safety measures for prospective work items for installation and site tests of substation equipment
- (c) Security measures during the whole project execution period excluding Defects Liability Period

1.2 Economic Evaluation

Price bids of the Bidders will be evaluated only if technical bid is substantially responsive.

In addition to the criteria listed in ITB 38.2 (a) – (c), the adjustments in the quoted price on account of the followings shall be allowed for purposes of comparative evaluation, to arrive at an “Evaluated Bid Price”.

1.2.1 Quantifiable nonmaterial nonconformities

- i. The Bidder shall not be eligible for any extra price in respect of minor fittings and accessories which are considered as an essential part of the scope of services though not specifically mentioned in the Specification or in the offer.
- ii. The cost of all quantifiable nonmaterial nonconformities or omissions (minor omissions or missing items) shall be evaluated as follows:
 - (a) To this effect, the Bid Price shall be adjusted for comparison purposes only, to reflect the price of missing or non-conforming item or component, by taking the price equal to highest unit rate quoted for the same item(s) by other bidders. However, if there is only one bid, the rate of that/those missing item(s) as estimated by the employer would be taken and Bid Price shall be adjusted for evaluation and comparison purposes only. In case of award of contract, the successful bidder would be required to supply missing item(s) free of cost and tax liability will be borne by the successful bidder.
 - (b) If there is any discrepancy in unit of measurement of item(s), the Price Schedule unit of measurement will prevail and accordingly unit rate applied for evaluation purpose and for payment.
- iii. In case, in the opinion of the Bidder, based on the design, some additional items are required; the same shall be raised in the pre-bid conference to amend the Price Schedule accordingly, if so required. However, if still in the opinion of the bidder some additional items are required, they shall not be shown separately but the cost of the same shall be included in the Unit prices of items of the Price Schedule.

1.2.2 Other Factors

The following factors and methods will apply under ITB 38.2 (f):

- (a) Time Schedule
 - i. Time to complete the Plant and Installation Services from the effective date specified in Article 3 of the Contract Agreement for determining time for completion of pre-commissioning activities is: twenty four (24) months.
 - ii. No credit will be given for earlier completion.
 - iii. No demobilization, remobilization period, idling or stoppage period will be allowed during this period of contract.
 - iv. Bids mentioning Time Schedule other than mentioned above will be considered non responsive.

(b) Operating and Maintenance Costs

The price of recommended spare parts quoted in Price Schedule No.7 shall not be considered for evaluation.

(c) Functional Guarantees of the Plant and Installation Services

No functional guarantees of the facilities are applicable.

(d) Work, services, facilities, etc., to be provided by the Employer

- i. Terminal of Gantry shall be provided by the Employer.
- ii. Drawings, GTP, Location Details and Price Schedule available with the Employer (listed attached in Volume-II) shall be provided for execution of work. Drawings & GTP that are not available with the Employer shall be designed and got approval by the Bidder from the Employer with no extra cost to the Employer.
- iii. The Employer will assist to secure the ROW, getting clearance from Railway, NHAI, Forest, Water and other Statutory/Govt. body.

Note: The Employer shall not provide any facilities other than i to iii mentioned above. Cost of additional works, services, facilities, etc., if any, shall not be considered for the purpose of comparative evaluation and are to be taken into account by the Bidder while submitting bids.

(e) Specific additional criteria

The following additional criteria will be used in the evaluation:

- i. Cost of mandatory spares, Optional maintenance equipment & spares, and special tools & tackles shall be deemed to be included in the cost of plant. Hence, the same shall not be considered for the purpose of comparative evaluation.
- ii. Maximum number of Members in a JV/Consortium for a Package is limited to three (03) only.
- iii. The Lead Member of a JV/Consortium shall be a Turnkey / EPC Contractor (not a Sub-Contractor) having experience in Electrical EHT substation work projects. However, other Members of a JV/Consortium may be Manufacturer of any of the Electrical Equipment such as Transformers, CR panel, CT&PT, Isolator and Gas Insulated Switchgear.
- iv. Deviation from terms of payment as specified in Appendix of Contract Agreement shall not be permitted. Bids deviating from specified terms of payment will be treated as nonresponsive.
- v. No Domestic Preference is Applicable.
- vi. Discounts, if any, shall only be offered in the Letter of Price Bid and any Price reduction (discount) offered other than in the Letter of price bid will not be considered for evaluation.

- vii. Loss capitalization of the Transformers shall not be considered for evaluation.
- viii. The total evaluated prices (Total of the Supply (CIP/EXW) plus Installation & other services including taxes and duties and all other associated cost and total cost of Mandatory Spares) of all the Bidders, Package wise, shall be compared to determine the lowest evaluated price.

1.2.3 Award Criteria for Multiple Contracts (ITB 38.4)

Not applicable.

1.3 Alternatives Technical Solutions

Alternatives technical solutions, if invited in accordance with ITB 13.4, will be evaluated as follows: Not Applicable.

2. Qualification

(i) Exchange Rate for Qualification Criteria

Wherever a Form in Section IV, Bidding Forms, requires a Bidder to state a monetary amount, Bidders should convert into the local currency from currencies other than local currency for evaluation purpose using the rate of exchange determined as follows:

- (a) For turnover or financial data required for each year - Exchange rate prevailing on the last day of the respective calendar year.
- (b) Value of single Contract - Exchange rate prevailing on the date of the Contract.

Exchange rates shall be taken from TT selling rate of State Bank of India (SBI) in India. Any error in determining the exchange rates may be corrected by the Employer.

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Factor /Sub-Factor	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.1 Eligibility							
2.1.1	Nationality	Nationality in accordance with ITB 4.3.	Must meet requirement	N/A	Must meet requirement	N/A	Form ELI –1.1 and 1.2, with attachments
2.1.2	Conflict of Interest	No conflicts of interests as described in ITB 4.2.	Must meet requirement	N/A	Must meet requirement	N/A	Letter of Bid
2.1.3	JICA Ineligibility	Not having been declared ineligible by JICA as described in ITB 4.4.	Must meet requirement	N/A	Must meet requirement	N/A	Letter of Bid Form ACK

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Factor/ Sub-Factor	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.2 Historical Contract Non-Performance							
2.2.1	History of non-performing Contracts	Non-performance of a Contract ⁽ⁱ⁾ did not occur as a result of Contractor's default since 1 st January 2017.	Must meet requirement ⁽ⁱⁱ⁾	N/A	Must meet requirement ⁽ⁱⁱ⁾	N/A	Form CON
2.2.2	Pending Litigation	All pending litigation shall in total not represent more than fifty percent (50%) of the Bidder's net worth and shall be treated as resolved against the Bidder.	Must meet requirement ⁽ⁱⁱ⁾	N/A	Must meet requirement ⁽ⁱⁱ⁾	N/A	Form CON
2.2.3	Litigation History	No consistent history of court/arbitral award decisions against the Bidder ⁽ⁱⁱⁱ⁾ since 1 st January 2014.	Must meet requirement ⁽ⁱⁱ⁾	N/A	Must meet requirement ⁽ⁱⁱ⁾	N/A	Form CON
<p>Notes for the Bidder</p> <p>(i) Non-performance, as decided by the Employer, shall include all Contracts:</p> <p>(a) where non-performance was not challenged by the Contractor, including through referral to the dispute resolution mechanism under the respective Contract, and</p> <p>(b) that were so challenged but fully settled against the Contractor.</p> <p>Non-performance shall not include Contracts where Employers decision was overruled by the dispute resolution mechanism. Non-performance must be based on all information on fully settled disputes or litigation, i.e. dispute or litigation that has been resolved in accordance with the dispute resolution mechanism under the respective Contract and where all appeal instances available to the Applicant have been exhausted.</p> <p>(ii) This requirement also applies to Contracts executed by the Bidder as a JV member.</p> <p>(iii) The Bidder shall provide accurate information on the related Bidding Form about any litigation or arbitration resulting from Contracts completed or ongoing under its execution over the last five (5) years. The court/arbitral award decisions against the Bidder or any member of a joint venture constituting more than 25% of the number of contracts executed or more than 25% of the value of the contract executed during the period since January 2014 shall lead to the rejection of the bidder.</p>							

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Factor/ Sub-Factor	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.3 Financial Situation							
2.3.1	Financial Performance	<p>The Bidder shall demonstrate that the net worth shall be positive at the end of the preceding financial year as per the audited balance sheets and other financial statements.</p> <p>As the minimum requirement, an Bidder's net worth calculated as the difference between total assets and total liabilities should be positive</p>	Must meet requirement	N/A	Must meet requirement	N/A	Form FIN – 1 with attachments
2.3.2	Average Annual Turnover	<p>The Bidder shall demonstrate that the Minimum Average Annual Turnover of the Bidder during last five (5) years as per the audited financial statements proceeding to the year of NIT shall be Rs. 926 Million [INR] (13.43 Million [USD])</p>	Must meet requirement	Must meet requirement	Must meet twenty five percent (25%) of the requirement	Must meet fifty percent (50%) of the requirement	Form FIN – 2

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Factor/ Sub-Factor	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.3 Financial Situation							
2.3.3	Financial Resources	(i) The Bidder shall demonstrate that it has access to, or availability of, financial resources such as liquid assets, unencumbered Bank Deposits, lines of credit, and other financial means, other than any contractual advance payments of Rs.309 Million [INR] (4.48 Million [USD]) as per the audited balance sheets and other financial statements.	Must meet requirement	Must meet requirement	Must meet twenty five percent (25%) of the requirement	Must meet fifty percent (50%) of the requirement	Form FIR - 1
		(ii) The Bidder shall also demonstrate, to the satisfaction of the Employer, that it has adequate sources of finance to meet the cash flow requirements on works currently in progress and for future contract commitments.	Must meet requirement	Must meet requirement	N/A	N/A	Form FIR – 1 and Form FIR - 2
2.3.4	Undertaking towards Financial Restructuring	The Bidder shall submit an undertaking in the prescribed format that the applicant should not be currently in the process of Financial Restructuring under Corporate Debt Restructuring Act.	Must meet requirement	Must meet requirement	Must meet requirement	Must meet requirement	Form FIR - 3

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Factor/ Sub-Factor	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.4 Experience							
2.4.1	General Experience	Experience under Transmission projects (including Substation projects) contracts in the role of prime contractor (single entity or JV member), for at least the last five (5) years from the date of NIT.	Must meet requirement	Must meet requirement	N/A	N/A	Form EXP - 1
2.4.2 (a)	Specific Experience	Experience under contracts in the role of prime contractor (single entity or JV member) ⁽ⁱ⁾ within the last seven (7) years, at least one (1) contract for the design, supply, installation and testing & commissioning of new 220 kV or higher voltage level GIS substation with minimum five (5) bays on turnkey basis. Evidence of above experience shall be submitted in the bid which will be in the user's respective letterhead stationary indicating address, telephone and fax numbers of the user and shall include Name of the project, Name of the Employer, Description of the work, Commissioning date and Contract amount.	Must meet requirement	Must meet requirements	N/A	N/A	Form EXP - 2(a)

Eligibility and Qualification Criteria			Compliance Requirements				Documentation
No.	Factor/ Sub-Factor	Requirement	Single Entity	Joint Venture (existing or intended)			Submission Requirements
				All Parties Combined	Each Member	One Member	
2.4 Experience							
2.4.2 (b)	Specific Experience	<p>The above contract(s) shall be in successful operation for minimum of one (1) year as on the date of NIT.</p> <p>The above experience shall be supported by end user's certificates in their letterhead indicating their address, telephone & fax number and details of project (i.e. name, address & nationality of customer, details of Contract, voltage & equipment, completion period, commissioning date, commercial operation date, Contract value).</p>	Must meet requirements	Must meet requirements	N/A	N/A	Form EXP - 2(b)
<u>Notes for the Bidder</u>							
(i) For contracts under which the Bidder participated as a JV member, only the Bidder's share, by value, shall be considered to meet this requirement.							

2.5 Subcontractors/manufacturers

The Sub-Contractor and Sub-Vendor / Manufacturer engaged under the contract must meet the following criteria mentioned against Supply or Services as applicable against respective item.

The Bidder is responsible for ensuring that the Sub-Contractor and Sub-Vendor / Manufacturer comply with the requirements of minimum criteria listed below. In this respect, the Bidder shall furnish documentary evidence pertaining to Sub-Contractor / Sub-Vendor / Manufacturer to meet the minimum criteria below.

Failure to comply with this requirement will result in rejection of the Sub-Contractor and Sub-Vendor / Manufacturer.

Item No.	Description of Item	Minimum Criteria to be met
1	Gas Insulated Switchgear (GIS) (Outdoor type)	<ul style="list-style-type: none"> - Bidder shall furnish copies of ISO 9001:2008 or equivalent certificates issued by an authorized agency of each of proposed manufacturer's factory. - Bidder shall furnish the evidences of outdoor type GIS with the same specification or above with a minimum of fifteen (15) years of experience in successful outdoor operation for the proposed manufacturer's factory. Evidence of satisfactory service mentioning the following information shall be issued by the end user on respective letterhead stationary indicating address, telephone, contact e-mail address and fax numbers of the end users: <ul style="list-style-type: none"> a) The project/contract name & number (with date of contract & project duration) against which these equipment has been supplied & installed, b) Substation name where GIS has been installed, c) GIS voltage level d) Capacity (continuous current rating & short circuit current rating) e) Date of commissioning f) End user's signature and issuing date in their letter - Bidder shall furnish the satisfactory type test reports on a similar type GIS with the same specification or above, manufacturer by the proposed factory. - Bidder shall furnish the Type test report that the gas leakage rate for GIS is less than 0.1% / year.
2	Substation Automation System (SAS) and Protection Relays	<ul style="list-style-type: none"> - Bidder shall furnish copies of ISO 9001:2008 or equivalent certificates issued by an authorized agency of each of proposed manufacturers' factory. - Bidder shall furnish the proposed factory's supply record of at least five (5) numbers of SAS for 220 kV and above voltage class substation for the last ten (10) years.

		<ul style="list-style-type: none"> - Bidder shall furnish at least two (2) evidences of SAS for 220 kV and above voltage class substation with a minimum of one (1) year in satisfactory service as on the date of NIT. Evidence of satisfactory service mentioning the following information shall be issued by the end user on respective letterhead stationary indicating address, telephone, contact e-mail address and fax numbers of the end users: <ul style="list-style-type: none"> a) The project/contract name & number (with date of contract & project duration) against which these equipment has been supplied & installed, b) Substation name where SAS has been installed, c) Substation voltage level and number of bays/diameters d) Date of commissioning e) End user's signature and issuing date in their letter - Bidder shall submit a confirmation & declaration certificate from protection relay manufacturer that his relay shall be compatible (as IEC 61850) and he shall cooperate for integrating with Substation Automation System.
3	Commissioning of the works as per BOQ	Sub-Contractor has executed at least 25% of the total scope of works during last five financial years having valid relevant license (HT/Project) as applicable to the main contractor.

Note

1. This section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders. In accordance with ITB 32, 35 and 38, no other factors, methods or criteria will be used. The Bidder shall provide all the information requested in the forms included in Section IV, Bidding Forms.
2. Supply Record of respective equipment shall be issued by the manufacturer in manufacturer's letterhead stationary indicating:
 - a) Project/contract name & number against which the equipment has been supplied,
 - b) Technical details (i.e. voltage, current, short circuit rating) of the equipment
 - c) Year of supply
 - d) User name to whom the equipment has been supplied
3. 220 kV & 132 kV GIS shall have to be supplied from the same manufacturer. Similarly 220 kV & 132 kV Surge Arresters shall have to be supplied from the same manufacturer.

In the case of a Bidder who offers to supply and install major items of supply under the Contract that the Bidder did not manufacture or otherwise produce, the Bidder shall provide the manufacturer's authorization, using Form MAN provided in Section IV, Bidding Forms, showing that the Bidder has been duly authorized by the manufacturer or producer of the related plant and equipment or component to supply and install that item in the Employer's country. The Bidder is responsible for ensuring that the manufacturer or producer complies with the requirements of ITB 4 and ITB 5 and meets the minimum criteria listed above for that item.

2.6 Bid Capacity Qualification

A bidder shall meet the following bid capacity qualification criteria along with other Technical Qualifying requirement before his bid is considered for opening of the price bid.

i	Bidder's Bid Capacity	The bid capacity of the bidder shall be considered as 200% of the highest project related annual turnover (excluding that of Associated Companies on Standalone basis) in any financial year during the last 5 financial years reckoned from the year of NIT, which shall be evaluated by OPTCL based on the information furnished by the bidder as per the format FIN No.3 and FIN No.4
ii	Bidder's Participation in the bid	A bidder may participate in the bidding of any of the package(s)/ works irrespective of bidder's bid capacity.
iii	Bidder's Technical Eligibility.	Bidder shall be Technically eligible based on the qualifying requirement mentioned under Sec-III EQC (Evaluation and Qualification Criteria) except Bidder's Bid Capacity.
iv	Bidder's Price Bid Opening Eligibility based on the Bidder's Bid capacity qualification.	<p>The bidder shall be eligible for opening of the Price bid based on the available bid capacity defined as under: Available bid capacity: $[(2xA)-(0.5xB)-C]$ should be more than or equal than the tendered estimated price. Where, A= Highest project related Annual Turnover of the Bidder (excluding its Associated Companies on Standalone Basis) in any financial year during the last five financial years as per FIN-3. B=Total value of Outstanding Work Orders/LOAs placed by OPTCL and other Organizations on the bidder on the date of opening of the Technical bid excluding those which have been commissioned as per FIN-4 C= Package(s) / Works finalized but yet to be awarded in favour of the bidder by OPTCL (to be computed by OPTCL based on available information).</p> <p>Note: In respect of (B) & (C) above for Joint Venture/ Consortium share of each partner would be as per agreed profit sharing ratio in the Joint Venture/ Consortium Agreement. In absence of the same, it would be considered as equal sharing.</p>
v	Opening of the Price Bid	<p>The price bid of all the packages(s) / works of the Technically eligible bidder(s) shall be on the date and time as decided by the OPTCL and communicated to the eligible bidder through tender portal/correspondence. The price bid of the bidder shall be opened subject to meeting the available bid capacity limit considering Para-iv above.</p> <p>If the evaluated price of the bidder becomes L-1 which exceeds the bid capacity, the price bid of the bidder shall not be rejected on bid capacity grounds.</p>
vi	Award for the Packages(s)	After opening of the price bids of all the Package(s)/ works under this NIT, the price bids of the responsive bidders(s) shall be evaluated package/ work wise adopting the price evaluation methodology to derive the lowest evaluated bidder(s).

Note:

In case of Joint Venture / Consortium, the bid capacity shall be considered as 200% of the highest project related turnover (excluding its Associated Companies on Standalone Basis) of the partners together in any financial year during the last 5 financial years reckoned from the year of NIT, which shall be evaluated by OPTCL based on the information furnished by the bidder as per the format **FIN No.-3 & FIN No.-4**. Similarly the available bid capacity in case of Joint venture/ Consortium shall be determined for the partners together as per the modality mentioned under 2.6(iv) above.

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Letter of Technical Bid

Date: *[insert date of Bid submission]*
Loan Agreement No.: *[insert number]*
IFB No.: *[insert number]*
Alternative No.: *[insert identification No. if this is a Bid for an alternative]*

To: *[insert full name of Employer]*,

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB 8): *[insert the number and issuing date of each Addendum]*;
- (b) We, including any Subcontractors/ manufacturers, for any part of the Contract, meet the eligibility requirements in accordance with ITB 4 and ITB 5;
- (c) We, including any Subcontractors/ manufacturers, for any part of the Contract, have no conflict of interest in accordance with ITB 4;
- (d) We offer to *[insert the services that apply, i.e., design, manufacture, test, deliver, install, pre-commission and commission]*, in conformity with the Bidding Documents, the following Plant and Installation Services: *[insert a brief description of the Plant and Installation Services]*;
- (e) Our Bid shall be valid for a period of *[specify the number of calendar days]* days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (f) We are not participating, as a Bidder or as a Subcontractor/ manufacturers, in more than one Bid in this bidding process in accordance with ITB 4.2 (c), other than alternative Bids submitted in accordance with ITB 13; and
- (g) We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of fraud and corruption.

Name of the Bidder**[insert complete name of the Bidder]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder** *[insert complete name of person duly authorized to sign the Bid]*

Title of the person signing the Bid [*insert complete title of the person signing the Bid*]

Signature of the person named above [*insert signature of person whose name and capacity are shown above*]

Date signed [*insert date of signing*] day of [*insert month*], [*insert year*]

*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder

** : Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid.

Letter of Price Bid

Date: *[insert date of Bid submission]*
Loan Agreement No.: *[insert number]*
IFB No.: *[insert number]*
Alternative No.: *[insert identification No. if this is a Bid for an alternative]*

To: *[insert full name of Employer]*,

We, the undersigned, declare that:

- (i) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB 8): *[insert the number and issuing date of each Addendum]*;
- (ii) We offer to *[insert the services that apply, i.e., design, manufacture, test, deliver, install, pre-commission and commission]*, in conformity with the Bidding Documents, the following Plant and Installation Services: *[insert a brief description of the Plant and Installation Services]*;
- (iii) The total price of our Bid, excluding any discounts offered in item (d) below is:
In case of only one lot, total price of the Bid *[insert the total price of the Bid in words and figures, indicating the various amounts and the respective currencies]*

[In case of multiple lots, insert the total price of each lot]
[In case of multiple lots, insert the total price of all lots (sum of all lots)];
- (iv) The discounts offered and the methodology for their application are:

The discounts offered are: *[specify in detail each discount offered]*

The exact method of calculations to determine the net price after application of discounts is shown below: *[specify in detail the method that shall be used to apply the discounts]*;
- (v) Our Bid shall be valid for a period of *[specify the number of calendar days]* days from the date fixed for the Bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (vi) If our Bid is accepted, we commit to obtain a Performance Security in accordance with the Bidding Documents;
- (vii) We understand that this Bid, together with your written acceptance thereof included in your Letter of Acceptance, shall constitute a binding Contract between us, until a formal Contract is prepared and executed; and

(viii) We understand that you are not bound to accept the lowest evaluated Bid or any other Bid that you may receive.

Name of the Bidder**[insert complete name of the Bidder]*

Name of the person duly authorized to sign the Bid on behalf of the Bidder** *[insert complete name of person duly authorized to sign the Bid]*

Title of the person signing the Bid *[insert complete title of the person signing the Bid]*

Signature of the person named above *[insert signature of person whose name and capacity are shown above]*

Date signed *[insert date of signing]* day of *[insert month]*, *[insert year]*

*: In the case of the Bid submitted by a Joint Venture specify the name of the Joint Venture as Bidder

** : Person signing the Bid shall have the power of attorney given by the Bidder to be attached with the Bid.

Price Schedules

Please refer to Volume 2 of 3 in the Bidding Documents for Price Schedule-1 to 8.

Notes on Prices Schedules

General

1. The Price Schedules are divided into separate Schedules as follows:
 - Schedule No. 1: Plant (including Mandatory Spare Parts) Supplied from Abroad
 - Schedule No. 2: Plant (including Mandatory Spare Parts) Supplied from Within the Employer's Country
 - Schedule No. 3: Design Services
 - Schedule No. 4: Installation and Other Services
 - Schedule No. 5: Provisional Sums
 - Schedule No. 6: Grand Summary
 - Schedule No. 7: Recommended Spare Parts (Spare parts for Operation and Maintenance)
 - Schedule No. 8: Details of Taxes & Duties
2. The Schedules do not generally give a full description of the Plant to be supplied and the services to be performed under each item. Bidders shall be deemed to have read the Employer's Requirements and other sections of the Bidding Documents and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling in the rates and prices. The entered rates and prices shall be deemed to cover the full scope as aforesaid, including overheads and profit.
3. If Bidders are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with ITB 7 prior to submitting their Bid.

Pricing

4. Prices shall be filled in indelible ink, and any alterations necessary due to errors, etc., shall be initialed by the Bidder.

As specified in the Bid Data Sheet and Particular Conditions of Contract, prices shall be fixed and firm for the duration of the Contract, or prices shall be subject to adjustment in accordance with the corresponding Appendix (Price Adjustment) to the Contract Agreement.
5. Bid Prices shall be quoted in the manner indicated and in the currencies specified in the Instructions to Bidders in the Bidding Documents.

For each item, Bidders shall complete each appropriate column in the respective Schedules, giving the price breakdown as indicated in the Schedules.

Prices given in the Schedules against each item shall be for the scope covered by that item as detailed in Section VI (Employer's Requirements) or elsewhere in the Bidding Documents.

6. Payments will be made to the Contractor in the currency or currencies indicated under each respective item.
7. When requested by the Employer for the purposes of making payments or partial payments, valuing variations or evaluating claims, or for such other purposes as the Employer may reasonably require, the Contractor shall provide the Employer with a breakdown of any composite or lump sum items included in the Schedules.

Schedule No. 1. Plant and Mandatory Spare Parts Supplied from Abroad

Item	Description	Code ¹	Qty. (1)	Unit Price ²		Total Price ²
				In foreign Currency (2)	<i>CIP</i> (3)	(1) x (3)
TOTAL (to Schedule No. 6. Grand Summary)						

Name of Bidder	_____
Signature of Bidder	_____

¹ Bidders shall enter a code representing the country of origin of all imported plant and equipment.

² Specify currency in accordance with specifications in Bid Data Sheet under ITB 19.1 in Single-Stage Bid, or ITB 34.1 in Two-Stage Bid. Create and use as many columns for Unit Price and Total Price as there are currencies.

Country of Origin Declaration Form

Item	Description	Code	Country

Schedule No. 3. Design Services (Not Applicable)

Item	Description	Qty. (1)	Unit Price ¹		Total Price ¹	
			Foreign Currency Portion (2)	Local Currency Portion (3)	Foreign (1) x (2)	Local (1) x (3)
TOTAL (to Schedule No. 6. Grand Summary)						
			Name of Bidder _____			
			Signature of Bidder _____			

¹ Specify currency in accordance with specifications in Bid Data Sheet under ITB 19.1 in Single-Stage Bid, or ITB 34.1 in Two-Stage Bid.

Schedule No. 5. Provisional Sums (Not to be considered for Evaluation)

Item	Description	Amount	
		Local	Foreign
	Cost of Dispute Board¹		
TOTAL (to Schedule No. 6. Grand Summary)			
		Name of Bidder _____ Signature of Bidder _____	

¹ One-half of the Employer's cost estimate of the Dispute Board shall be included in the Provisional Sums. Contractor's overhead and profits shall not be included in this amount.

Schedule No. 6. Grand Summary

Item	Description	Total Price ¹	
		Foreign	Local
	Total Schedule No. 1. Plant, and Mandatory Spare Parts Supplied from Abroad		
	Total Schedule No. 2. Plant, and Mandatory Spare Parts Supplied from Within the Employer's Country		
	Total Schedule No. 3. Design Services		
	Total Schedule No. 4. Installation and Other Services		
	Total Schedule No. 5. Provisional Sums		
TOTAL (to Bid Form)			
<div style="margin-left: 40px;"> i. Name of Bidder _____ Signature of Bidder _____ </div>			

¹ Specify currency in accordance with specifications in Bid Data Sheet under ITB 19.1 in Single-Stage Bidding, or ITB 34.1 in Two-Stage Bidding. Create and use as many columns for Foreign Currency requirement as there are foreign currencies.

Note:

- i. GST/ any other taxes/ duties/ levies shall be inclusive in the bid price and shall not be paid / reimbursed separately.
- ii. The GSTIN of OPTCL is AAACO7873L1Z6 which should be mentioned in the bid and the Tax invoice to be issued by the successful bidder.
- iii. Uniform GST @18% is applicable presently to both supply and installation portion covered under one works contract (to be treated as services under GST Act)
- iv. GST and other statutory levies payable by the Bidder in respect of the transaction between the bidder and their vendors in respect of goods and services procured by them shall be included in their quoted unit price.

Schedule No. 8. Details of Taxes & Duties included in the Grand Summary Price in the Schedule-6

Sl No.	Description of Applicable Tax/Levy	Item /Component Sl. No. of Bid price on which Applicable	Tax @ __%	Total Amount of Taxes /Duty/ Levies
	Detailed breakup of the of Taxes and levies included in the Bid Price			
	Plant (including Mandatory Spare Parts) Supplied from Abroad as per scheduled-1 (i) Basic Customs Duty. (ii) GST			
	Plant (including Mandatory Spare Parts) Supplied from within the Employer's Country as per scheduled-2 (i) GST.			
	Design Services as per scheduled-3 (i) GST.			
	Installation Services as per scheduled-4 (i) GST.			
	Any other Levies other than above:(please specify)			
	Central :-			
	State or Local Body :-			
	TOTAL OF TAXES AND DUTIES [Sum (a) to (e)]			
Name of Bidder _____ Signature of Bidder _____				

NOTE: - Lumpsum prices quoted by the Bidder shall include cost of total scope of work and any other supplies/work(s) not specifically mentioned in the Bidding Document but necessary for the efficient, trouble free operation of the system and to make this package work complete in all respects.

i) GST/ any other taxes/duties/levies shall be inclusive in the bid price and shall not be paid/ reimbursed separately.

ii) The GSTIN of OPTCL is 21AAACO7873L1Z6 which should be mentioned in the bid and the Tax Invoice issued by the successful Bidder.

iii) **Uniform GST @18% is applicable presently to both supply and Installation Portion covered under one works contract (to be treated as services under GST Act).** The applicable GST account code (SAC) is 995423 (General construction services of long-distance underground/ overland/ submarine pipelines, communication and electric power lines (cables); pumping stations and related works; transformer stations and related works).

iv) GST and other statutory levies payable by the Bidder in respect of the transaction between the Bidder and their vendors in respect of goods and services procured by them shall be included in their Ex works price. Such GST and other statutory levies shall not feature in this schedule.

(v) The Input Tax Credit (ITC) available, if any, under the GST law as per the relevant Government policies wherever applicable shall be taken into account by the Bidder while quoting bid price.

Price Adjustment

Price Adjustment Formula

Prices payable to the Contractor, in accordance with the Contract, shall be subject to adjustment during performance of the Contract to reflect changes in the cost of labor and material components, in accordance with the following formula:

$$P_1 = P_0 \times \left(a + b \frac{L_1}{L_0} + c \frac{M_1}{M_0} \right) - P_0$$

in which:

P_1 = adjustment amount payable to the Contractor

P_0 = Contract Price (base price)

a = percentage of fixed element in Contract Price ($a = _ \%$)

b = percentage of labor component in Contract Price ($b = _ \%$)

c = percentage of material and equipment component in Contract Price ($c = _ \%$)

L_0, M_0 = labor and material/equipment component indices or reference prices in the country of origin on the Base Date

L_1, M_1 = labor and material/equipment component indices applicable to the appropriate industry in the country of origin on the date of adjustment, for adjustments related to Plant and components supplied under Schedules No.1, No.2 and No.3; and, in case of adjustment for Installation Services provided under Schedule No.4, indices or reference prices applicable to the appropriate industry in the country of origin on the month the Installation Services were provided.

N.B. $a+b+c= 100\%$.

Note: For the purpose of date of adjustment, the respective indices for the corresponding month shall be considered.

Price Adjustment shall be allowed for the contract period for the Major items as mentioned below :

- 1) Conductor
- 2) a) Substation structures
- 3) b) Nuts & Bolts(Including Washers) for sub-station structures –
- 4) Power Transformers
- 5) Circuit Breakers
- 6) “Reinforced Cement Concrete”(RCC) & “Plain Cement Concrete”(PCC).

- i) The ratio of labour and material component to be considered for price variation for the above items is as below.

Items	Constant portion (a)	Labour Component (b)	Materials Component (c)
Structure Materials	10	23	67
Nuts & Bolts	10	23	67
Transformer	10	15	75
Conductor	10	15	75
Circuit Breaker	10	20	70
Concreting (PCC & RCC)	10	11	79

ii) Further, the following Wholesale Price Index to be considered for materials components of items mentioned against each where supplies are to be made from inside the country.

- a) Structure Materials (including Stubs & templates)- on the basis of WPI for Steel Structures
- b) Nuts & Bolts (Including Washers) for tower structures – on the basis of WPI for Bolts, screws, nuts & nails of Iron & steel.
- c) Power Transformers- on the basis of WPI of Transformers
- d) Conductor- on the basis of WPI of ACSR Conductor or Aluminium /Alloy Conductor as applicable
- e) Circuit Breaker- on the basis of WPI of Electric Switchgear Control/Starter
- f) “Reinforced Cement Concrete” (RCC) & “Plain Cement Concrete” (PCC) – on the basis of monthly WPI of All Commodities.

iii) For Labour Component, All India Average Consumer Price Index for Industrial Workers published by Labour Bureau, Ministry of Labour, Govt. of India.

iv) For supplies from outside the country, the Wholesale Price Index and Consumer Price Index are to be considered as per Standard Bidding Document of JICA funded projects, as below,

“Consumer price Index (CPI) and Whole Sale Price Index (WPI) of the Country of Origin shall be nationally recognized indices published by the Federal/Central Govt. of that Country of Origin or by Federal/Central Bank of that Country of Origin”.

Conditions Applicable To Price Adjustment

The Bidder shall indicate the source of labor and materials indices and the base date indices in its Bid.

Item	Source of Indices Used	Base Date Indices

The Base Date shall be the date twenty eight (28) days prior to: [*insert* “the Bid submission deadline”].

CONDITIONS OF PRICE ADJUSTMENT:

- (i) Scheduled delivery period of the quantity shall be reckoned to be the end of the period as indicated in the approved Bar Chart/PERT for the total quantity for the purpose of calculation of price adjustment. Similarly, scheduled period of Installation Services shall be reckoned to be the end of the period as indicated in the approved Bar Chart/PERT for the completion of Installation services for the purpose of calculation of price adjustment.
- (ii) If the price Adjustment amount works out to be positive, the same is payable to the Contractor by the Employer and if it works out to be negative, the same is to be recovered by the Employer from the Contractor.
- (iii) The agency has to furnish an undertaking that deduction can be made from any other bills pertaining to this project only being executed by them for this purpose.
- (iv) In the event there is negative price adjustment which can't be recovered from the bills of the Contractor in normal course, Performance Bank Guarantee can be utilized to the extent of negative price adjustment not recovered.
- (v) The above price adjustment provision shall be invoked by either party.
- (vi) No price increase shall be allowed beyond the original delivery / Installation dates unless specifically stated in the Time Extension Letter, if any, issued by the Employer. The Employer will, however, be entitled to any decrease in the Contract Price which may be caused due to lower price adjustment amount in case of delivery of Goods/ Installation beyond the original delivery / Installation dates.
- (vii) Consumer price Index (CPI) and Whole Sale Price Index (WPI) of the Country of Origin shall be nationally recognized indices published by the Federal/Central Govt. of that Country of Origin or by Federal/Central Bank of that Country of Origin. The source of indices used and the base date of indices for above CPI/WPI, as the case may be shall be indicated by the bidder which shall be finalized at the time of negotiations for signing of the contract agreement.

Technical Proposal

Bidder shall furnish a Technical Proposal including all the following items in sufficient detail to demonstrate substantial responsiveness of the Bidder's proposal. Failure to furnish with the Bid, any of the following Schedules or Forms may result rejection of the Bid as non-responsive.

- Site Organization
- Method Statement
- Mobilization Schedule
- Construction Schedule
- Plant
- Safety Plan
- Form FUNC: Functional Guarantee
- Form PER - 1: Proposed Personnel
- Form PER - 2: Resume of Proposed Personnel
- Form EQU: Equipment
- Form SUB: Proposed Subcontractors for Major Items of Plant and Installation Services
- Form MAN: Manufacturer's Authorization
- Other - Time Schedule

Site Organization

[Insert Technical Proposal for Site Organization.]

Note:

- 1) Contractor's site organization structure/chart including on-shore and off-shore staffs to manage and implement the Works of the Contract including ten (10) key personnel specified in Clause 1.1.1, Section III of Volume 1 of 3 in the Bidding Documents shall be proposed.
- 2) Proposed assignment man-months of the specified each key personnel for the Works shall also be indicated.

Method Statement

[Insert Technical Proposal for Method Statement.]

Note:

- 1) Statement of work methods for major work items shall be clearly described in sufficient detail to demonstrate substantial responsiveness of the Bidder's proposal to the Employer's Requirements and the completion time.

Mobilization Schedule

[Insert Technical Proposal for Mobilization Schedule.]

Note:

- 1) Mobilization schedule in sufficient detail shall be indicated in the form of MS-Project.
- 2) Time for completion of the entire works shall be 24 months from the commencement date of the Works.
- 3) Mobilization Schedule exceeding ** months shall be rejected.

Construction Schedule

[Insert Technical Proposal for Construction Schedule.]

Note:

- 1) Construction Schedule in sufficient detail shall be indicated in the form of MS-Project.
- 2) Time for completion of the entire works shall be 24 months from the commencement date of the Works.
- 3) Construction Schedule exceeding ** months shall be rejected.

Plant

[Insert Technical Proposal for Plant.]

Note:

- 1) General and special characteristics for the proposed major equipment (power transformer, 220 kV and 132 kV GIS and associated facilities, etc.) shall be described in sufficient detail to demonstrate the conformity of the Plant with the Employer's Requirements.

Safety Plan

[Insert Technical Proposal for Safety Plan.]

Note:

- 1) Proposed Safety Plan and Security Method including Health Management Plan and Environmental Protection for the Construction Works for the Substation Facilities in sufficient detail taking into account of the scope of the Works of the Contract Package of the Project shall be submitted with Technical Bid.

Form FUNC: Functional Guarantee**<Not Applicable>**

[The Bidder shall copy in the left column of the table below, the identification of each functional guarantee required in the Specification and stated by the Employer in para. 1.2.2 (c) of Section III. Evaluation and Qualification Criteria for Single-Stage Bidding, or in para. 1.1.2 (c) of Section III. Evaluation and Qualification Criteria for Two-Stage Bidding, Second Stage Evaluation, and in the right column, provide the corresponding value for each functional guarantee of the proposed plant and equipment.]

Required Functional Guarantee	Value of Functional Guarantee of the Proposed Plant and Equipment
1.	
2.	
3.	
...	

Form PER -1: Proposed Personnel

Date: *[insert day, month, year]*

Bidder's Legal Name: *[insert full name]*

Joint Venture Party Legal Name: *[insert full name]*

IFB No.: *[insert number]*

Page *[insert page number]* of *[insert total number]* pages

[The Bidder shall provide the names of suitably qualified personnel to meet the specified requirements stated in Section III, Evaluation and Qualification Criteria, Clause 1.1.1 for Single-Stage Bidding.]

1.	Title of position: Contractor's Representative
	Name
2.	Title of position: Project Manager at Site
	Name
3.	Title of position: Construction Manager (GIS Substation)
	Name
4.	Title of position: Construction Manager (Civil for Substation)
	Name
5.	Title of position: Control & Protection, SAS Engineer for GIS Substation
	Name
6.	Title of position: Communication Engineer for Substation
	Name
7.	Title of position: Building Facilities / Service Engineer
	Name
8.	Title of position: Health & Safety Officer
	Name
9.	Title of position: Architectural / Structural / Civil Engineer for Control Buildings
	Name
10.	Title of position: Security Officer
	Name

*As listed in Clause 1.1.1, Section III of Volume 1 of 3 in the Bidding Documents.

Form PER -2: Resume of Proposed Personnel

Date: *[insert day, month, year]*

Bidder's Legal Name: *[insert full name]*

Joint Venture Party Legal Name: *[insert full name]*

IFB No.: *[insert number]*

Page *[insert page number]* of *[insert total number]* pages

[The Bidder shall provide the data on the experience of the personnel indicated in Form PER-1, in the form below.]

Name of Bidder

Position							
Personnel information	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; padding: 5px;">Name</td> <td style="padding: 5px;">Date of birth</td> </tr> <tr> <td colspan="2" style="padding: 5px;">Professional qualifications</td> </tr> </table>	Name	Date of birth	Professional qualifications			
	Name	Date of birth					
Professional qualifications							
Present employment	Name of employer						
	Address of employer						
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 45%; padding: 5px;">Telephone</td> <td style="padding: 5px;">Contact (manager / personnel officer)</td> </tr> <tr> <td style="padding: 5px;">Fax</td> <td style="padding: 5px;">E-mail</td> </tr> <tr> <td style="padding: 5px;">Job title</td> <td style="padding: 5px;">Years with present employer</td> </tr> </table>	Telephone	Contact (manager / personnel officer)	Fax	E-mail	Job title	Years with present employer
	Telephone	Contact (manager / personnel officer)					
	Fax	E-mail					
Job title	Years with present employer						

Form EQU: Equipment

Date: *[insert day, month, year]*

Bidder's Legal Name: *[insert full name]*

Joint Venture Party Legal Name: *[insert full name]*

IFB No.: *[insert number]*

Page *[insert page number]* of *[insert total number]* pages

[The Bidder shall provide adequate information to demonstrate clearly that it has the capability to meet the requirements for the key equipment listed in Section III, Evaluation and Qualification Criteria, Clause 1.1.2 for Single-Stage Bidding. A separate Form shall be prepared for each item of equipment listed, or for alternative equipment proposed by the Bidder.]

Item of equipment		
Equipment information	Name of manufacturer	Model and power rating
	Capacity	Year of manufacture
Current status	Current location	
	Details of current commitments	
Source	Indicate source of the equipment <input type="checkbox"/> Owned <input type="checkbox"/> Rented <input type="checkbox"/> Leased <input type="checkbox"/> Specially manufactured	

Omit the following information for equipment owned by the Bidder.

Owner	Name of owner	
	Address of owner	
	Telephone	Contact name and title
	Fax	Telex
Agreements	Details of rental / lease / manufacture agreements specific to the project	

Form SUB: Proposed Subcontractors for Major Items of Plant and Installation Services

A list of major items of Plant and Installation Services is provided below.

The following Subcontractors and/or manufacturers are proposed for carrying out the item of the facilities indicated. Bidders are free to propose more than one for each item.

Major Items of Plant and Installation Services	Proposed Subcontractors/Manufacturers	Nationality

Form MAN: Manufacturer's Authorization

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer.]

Date: *[insert date (as day, month and year) of Bid Submission]*

IFB No.: *[insert number of bidding process]*

To: *[insert complete name of Purchaser]*

WHEREAS

We *[insert complete name of Manufacturer or Manufacturer's authorized agent]*, who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby authorize *[insert complete name of Bidder]* to submit a Bid the purpose of which is to provide the following goods, manufactured by us *[insert name and/or brief description of the goods]*, and to subsequently negotiate and sign the Contract.

We hereby extend our full guarantee and warranty in accordance with Clause 27, Defect Liability, of the General Conditions of Contract, with respect to the goods offered by the above firm.

Name: *[insert complete name of person signing the Bid]*

In the capacity of *[insert legal capacity of person signing the bid]*

Signed: *[insert signature of person whose name and capacity are shown above]*

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on _____ day of _____, _____ *[insert date of signing]*

Others - Time Schedule

[To be used by Bidders when alternative Time for Completion is invited or proposed.]

Bidder's Qualification

To establish its qualification to perform the Contract in accordance with Section III, Evaluation and Qualification Criteria, the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder:

- Form ELI - 1: Bidder Information
- Form ELI - 2: Bidder's Party Information
- Form CON: Historical Contract Non-Performance
- Form FIN - 1: Financial Situation
- Form FIN - 2: Average Annual Construction Turnover
- Form FIR - 1: Financial Resources
- Form FIR - 2: Current Contract Commitments
- Form FIR - 3: Financial Restructuring
- Form EXP - 1: General Construction Experience
- Form EXP - 2(a): Specific Construction Experience

Form ELI - 1: Bidder Information

Date: *[insert day, month, year]*

IFB No.: *[insert number]*

Page *[insert page number]* of *[insert total number]* pages

[The Bidder shall provide the following information.]

1. Bidder's legal name: <i>[insert full name]</i>
2. In case of JV, legal name of the representative member and of each member: <i>[insert full name of each member in the JV and specify the representative member]</i>
3. Bidder's actual or intended country of registration: <i>[insert country of registration]</i>
4. Bidder's actual or intended year of incorporation: <i>[insert year of incorporation]</i>
5. Bidder's legal address in country of registration: <i>[insert street/number/town or city/country]</i>
6. Bidder's authorized representative information Name: <i>[insert full name]</i> Address: <i>[inset street/number/town or city/country]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers, including country and city codes]</i> Email Address: <i>[insert E-mail address]</i>
7. Attached are copies of original documents of: <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or documents of registration of legal entity named above, in accordance with ITB 4.3. <input type="checkbox"/> In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Form ELI - 2: Bidder's Party Information

Date: *[insert day, month, year]*IFB No.: *[insert number]*Page *[insert page number]* of *[insert total number]* pages

[The following form is additional to Form ELI-1, and shall be completed to provide information relating to each JV member (in case the Bidder is a JV) as well as any specialist Subcontractor proposed to be used by the Bidder for any part of the Contract resulting from this process.]

1. Bidder's legal name: <i>[insert full name]</i>
2. Bidder's Party legal name: <i>[insert full name of Bidder's Party]</i>
3. Bidder's Party country of registration: <i>[insert country of registration]</i>
4. Bidder's Party year of incorporation: <i>[insert year of incorporation]</i>
5. Bidder's Party legal address in country of registration: <i>[insert street/number/town or city/country]</i>
6. Bidder's Party authorized representative information Name: <i>[insert full name]</i> Address: <i>[insert street/number/town or city/country]</i> Telephone/Fax numbers: <i>[insert telephone/fax numbers, including country and city codes]</i> E-mail address: <i>[insert E-mail address]</i>
7. Attached are copies of original documents of <input type="checkbox"/> Articles of Incorporation (or equivalent documents of constitution or association), and/or registration documents of the legal entity named above, in accordance with ITB 4.3.
8. Included are the organizational chart, a list of Board of Directors, and the beneficial ownership.

Form CON: Historical Contract Non-Performance

[The following table shall be filled in for the Bidder and for each member of a JV.]

Date: [insert day, month, year]

Bidder's Legal Name: [insert full name]

Joint Venture Party Legal Name: [insert full name]

IFB No.: [insert number]

Page [insert page number] of [insert total number] pages

1. History of Non-Performing Contracts

Non-Performing Contracts			
<input type="checkbox"/> Contract non-performance did not occur since 1 st January [insert year], in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.2.1, as appropriate.			
<input type="checkbox"/> Contract(s) not performed since 1 st January [insert year], in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.2.1, as appropriate, is(are) indicated below:			
Year	Non- performed portion of Contract	Contract Identification	Total Contract Amount (current value, currency, exchange rate and USD equivalent)
[insert year]	[insert amount and percentage]	<ul style="list-style-type: none"> Contract Identification: [indicate complete Contract name, number, and any other identification] Name of Employer: [insert full name] Address of Employer: [insert street/city/country] Reason(s) for non-performance: [indicate main reason(s)] 	[insert amount]

2. Pending Litigation

Pending Litigation				
<input type="checkbox"/> No pending litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.2.2, as appropriate.				
<input type="checkbox"/> Pending litigation in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.2.2, as appropriate, is indicated below:				
Year of dispute	Amount in dispute (currency)	Outcome as Percentage of Net Worth	Contract Identification	Total Contract Amount (current value, currency, exchange rate and USD equivalent)
<i>[insert year]</i>	<i>[insert amount]</i>	<i>[insert percentage]</i>	<ul style="list-style-type: none"> • Contract Identification: <i>[indicate complete Contract name, number, and any other identification]</i> • Name of Employer: <i>[insert full name]</i> • Address of Employer: <i>[insert street/ city/ country]</i> • Matter in dispute: <i>[indicate main issues in dispute]</i> • Status of dispute: <i>[indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary]</i> 	<i>[insert amount]</i>

3. Litigation History

Litigation History		
<input type="checkbox"/> No court/arbitral award decisions against the Bidder since 1 st January [<i>insert year</i>], in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.2.3, as appropriate.		
<input type="checkbox"/> Court/arbitral award decisions against the Bidder since 1 st January [<i>insert year</i>], in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.2.3, as appropriate, are indicated below:		
Year of award	Contract Identification	Total Contract Amount (current value, currency, exchange rate and USD equivalent)
[<i>insert year</i>]	<ul style="list-style-type: none"> • Contract Identification: [<i>indicate complete Contract name, number, and any other identification</i>] • Name of Employer: [<i>insert full name</i>] • Address of Employer: [<i>insert street/city/country</i>] • Matter in dispute: [<i>indicate main issues in dispute</i>] • Party who initiated the dispute: [<i>indicate "Employer" or "Contractor"</i>] • Status of dispute: [<i>indicate if it is being treated by the Adjudicator, under Arbitration or being dealt with by the Judiciary</i>] 	[<i>insert amount</i>]

Form FIN - 1: Financial Situation

[The following table shall be filled in for the Bidder and for each member of a JV.]

Date: *[insert day, month, year]*
 Bidder's Legal Name: *[insert full name]*
 Joint Venture Party Legal Name: *[insert full name]*
 IFB No.: *[insert number]*
 Page *[insert page number]* of *[insert total number]* pages

1. Financial data

Type of Financial information in (currency)	Historic information for previous <i>[insert number]</i> years (amount, currency, exchange rate, USD equivalent)				
	Year 1	Year 2	Year 3	Year 4	Year 5
Statement of Financial Position (Information from Balance Sheet)					
Total Assets (TA)					
Total Liabilities (TL)					
Net Worth (NW)					
Current Assets (CA)					
Current Liabilities (CL)					
Information from Income Statement					
Total Revenue (TR)					
Profits Before Taxes (PBT)					
Profits After Taxes (PAT)					

2. Financial documents

The Bidder and its Parties shall provide copies of the financial statements pursuant to Section III, Evaluation and Qualifications Criteria, Sub-factor 2.3.1. The financial statements shall:

- (a) reflect the financial situation of the Bidder or in case of JV member, of each member, and not an affiliated entity (such as parent company or group member).
 - (b) be independently audited or certified in accordance with local legislation.
 - (c) be complete, including all notes to the financial statements.
 - (d) correspond to accounting periods already completed and audited.
- Attached are copies of financial statements¹ required above; and complying with the requirements.

¹ If the most recent set of financial statements is for a period earlier than 12 months from the date of Bid, the reason for this should be justified.

Form FIN - 2: Average Annual Turnover

[The following table shall be filled in for the Bidder and for each member of a JV.]

Date: *[insert day, month, year]*
 Bidder's Legal Name: *[insert full name]*
 Joint Venture Party Legal Name: *[insert full name]*
 IFB No.: *[insert number]*
 Page *[insert page number]* of *[insert total number]* pages

Annual Turnover Data (Construction only)			
Year	Amount and Currency	Exchange rate	USD equivalent
<i>[indicate year]</i>	<i>[insert amount and indicate currency]</i>	<i>[insert applicable exchange rate]</i>	<i>[insert amount in USD equivalent]</i>
Average Annual Construction Turnover *			

* Total USD equivalent for all years divided by the total number of years, in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.3.2, as appropriate.

Form FIN - 3: Bidder's Bid Capacity Schedule

[The following table shall be filled in for the Bidder and for each member of a JV.]

Date: [insert day, month, year]

Bidder's Legal Name: [insert full name]

Joint Venture Party Legal Name: [insert full name]

IFB No.: [insert number]

Page [insert page number] of [insert total number] pages

(Name of Bidder or Joint Venture/ Consortium Partner)

Bidder's Bid Capacity Schedule (Highest Project Related Annual Turn Over)

Sl.No.	Financial Year	For Single Entity	For Joint venture/ Consortium		
		Highest Project Related Annual Turnover of the company only (excluding its Associated Companies on Standalone Basis) of any year during last 05 Financial Years (In Million USD.)	Highest Project Related Annual Turnover of the company only (excluding its Associated Companies on Standalone Basis) of any year during last 05 Financial Years of the Lead Partner (In Million USD.)	Highest Project Related Annual Turnover of the company only (excluding its Associated Companies on Standalone Basis) of any year during last 05 Financial Years of the other Partner (In Million USD.)	Total (In Million USD.)
01	FY.....				
02	FY.....				

Note:

The bidder has to furnish the Project Related highest Annual Turnover Certificate from an independent auditor or certified in accordance with local legislation with historic information (such as amount, currency, exchange rate, USD equivalent). In case the bidder has executed by project in Joint Venture/ Consortium, the project related turnover certified by an independent auditor or local legislation should reflect its share of the project related turnover only. However, project related turnover (excluding Associate Companies on Standalone Basis) for other partners of the Joint Venture/ Consortium are not necessarily required.

Form FIN - 4: Total Order Value of Outstanding Work

[The following table shall be filled in for the Bidder and for each member of a JV.]

Date: [insert day, month, year]

Bidder's Legal Name: [insert full name]

Joint Venture Party Legal Name: [insert full name]

IFB No.: [insert number]

Page [insert page number] of [insert total number] pages

Table (FIN-4)

(Name of Bidder or Joint Venture/ Consortium Partner)

Total Order Value of Outstanding Work Orders/ LOAs placed by OPTCL and other Organizations

Sl. No.	Name of The Organization	Description Of Work	Contract no. & Date	Total order Value of Outstanding Orders placed by OPTCL & other Organizations (in INR)
			Total , i.e 'B' =	

Note:

The bidder has to furnish the information in FIN No.4 duly certified by an independent auditor or certified in accordance with local legislation based on LOAs/Work Orders/NOA excluding those which have been commissioned.

Form FIR - 1: Financial Resources

[The following table shall be filled in for the Bidder and for each member of a JV.]

Date: *[insert day, month, year]*
 Bidder's Legal Name: *[insert full name]*
 Joint Venture Party Legal Name: *[insert full name]*
 IFB No.: *[insert number]*
 Page *[insert page number]* of *[insert total number]* pages

[Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total construction cash flow demands of the subject Contract or Contracts as indicated in Section III, Evaluation and Qualification Criteria Sub-Factor 2.3.3 (Without Prequalification), as appropriate.]

Financial Resources		
No.	Source of financing	Amount (USD equivalent)
1		
2		
3		

Form FIR - 2: Current Contract Commitments

[The following table shall be filled in for the Bidder and for each member of a JV.]

Date: [insert day, month, year]

Bidder's Legal Name: [insert full name]

Joint Venture Party Legal Name: [insert full name]

IFB No.: [insert number]

Page [insert page number] of [insert total number] pages

[Bidders and each member of a JV should provide information on their current commitments on all Contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for Contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued, in accordance with Section III, Evaluation and Qualification Criteria, Sub-Factor 2.3.3 (Without Prequalification), as appropriate.]

Current Contract Commitments					
No.	Name of Contract	Employer's Contact Address, Tel, Fax	Value of Outstanding Work [Current USD Equivalent]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [USD/month]
1					
2					
3					
4					
5					

Form FIR - 3: Financial Restructuring

[The following shall be filled in for the Bidder and for each member of a JV.]

Date: *[insert day, month, year]*

Bidder's Legal Name: *[insert full name]*

Joint Venture Party Legal Name: *[insert full name]*

IFB No.: *[insert number]*

Page *[insert page number]* of *[insert total number]* pages

UNDERTAKING

(Financial Restructuring)

We hereby undertake to confirm that M/s_____ (Name of the firm) should not be currently in the process of Financial Restructuring under Corporate Debt Restructuring Act.

**Signature of Authorized
Signatory with seal
of the Company**

Place:

Date:

Form EXP - 1: General Experience

[The following table shall be filled in for the Bidder and for each member of a JV.]

Date: *[insert day, month, year]*
 Bidder's Legal Name: *[insert full name]*
 Joint Venture Party Legal Name: *[insert full name]*
 IFB No.: *[insert number]*
 Page *[insert page number]* of *[insert total number]* pages

[Identify Contracts that demonstrate continuous work over the past [number] years pursuant to Section III, Evaluation and Qualification Criteria, Sub-Factor 2.4.1. List Contracts chronologically, according to their commencement (starting) dates.]

General Experience			
Starting Year	Ending Year	Contract Identification	Role of Bidder
<i>[indicate year]</i>	<i>[indicate year]</i>	<ul style="list-style-type: none"> • Contract name: <i>[insert full name]</i> • Brief description of the works performed by the Bidder: <i>[describe works performed briefly]</i> • Amount of Contract: <i>[insert amount, currency, exchange rate and USD equivalent]</i> • Name of Employer: <i>[indicate full name]</i> • Address: <i>[indicate street/number/town or city/country]</i> 	<i>[insert "Prime Contractor" (Single entity or JV member) or "Subcontractor" or "Management Contractor"]</i>

Form EXP - 2(a): Specific Experience

[The following table shall be filled in for Contracts performed by the Bidder and by each member of a JV.]

Date: [insert day, month, year]
 Bidder's Legal Name: [insert full name]
 Joint Venture Party Legal Name: [insert full name]
 IFB No.: [insert number]
 Page [insert page number] of [insert total number] pages

[Fill out one (1) form per Contract, in accordance with Section III, Evaluation and Qualification Criteria (Without Prequalification), Sub-Factor 2.4.2(a).]

Similar Contract No. [insert number] of [insert number of similar Contracts required]	Information		
Contract Identification	[insert Contract name and reference identification number, if applicable]		
Award date	[insert day, month, year, e.g., 15 June, 2015]		
Completion date	[insert day, month, year, e.g., 03 October, 2017]		
Role in Contract	Prime Contractor Only		
Total Contract Amount	[insert Contract amount(s) and currency(ies)]	USD [insert exchange rate and total Contract amount in USD equivalent]	
If member in a JV, specify participation in total Contract amount	[insert percentage of participation]	[insert amount(s) and currency(ies) of participation]	USD [insert exchange rate and amount of participation in USD equivalent]
Employer's Name	[insert full name]		
Address	[indicate street/number/town or city/country]		
Telephone/fax number	[insert telephone/fax numbers, including country and city area codes]		
E-mail	[insert E-mail address, if available]		

Similar Contract No. <i>[insert number of similar Contracts required]</i>	Information
Description of the similarity in accordance with Sub-Factor 2.4.2(a) of Section III:	
1. Physical size of required works items	<i>[insert physical size of items]</i>
2. Complexity	<i>[insert description of complexity]</i>
3. Methods/Technology	<i>[insert specific aspects of the methods/technology involved in the Contract]</i>
4. Other Characteristics	<i>[insert other characteristics as described in Section VI, Employer's Requirements]</i>

Form ACK

Acknowledgement of Compliance with the Guidelines for Procurement under Japanese ODA Loans

A) I, *[insert name and position of authorized signatory]*, being duly authorized by *[insert name of Bidder/members of joint venture (“JV”)]* (hereinafter referred to as the “Bidder”) to execute this Acknowledgement of Compliance with Guidelines for Procurement under Japanese ODA Loans, hereby certify on behalf of the Bidder and myself that all information provided in the Bid submitted by the Bidder for *[insert Loan No and name of the Project]* is true, correct and accurate to the best of the Bidder’s and my knowledge and belief. I further certify, on behalf of the Bidder, that:

- (i) the Bid has been prepared and submitted in full compliance with the terms and conditions set forth in the Guidelines for Procurement under Japanese ODA Loans (hereinafter referred to as the “Guidelines”); and
- (ii) the Bidder has not, directly or indirectly, taken any action which is or constitutes a corrupt, fraudulent, collusive or coercive act or practice in violation of the Guidelines and is not subject to any conflict of interest as stipulated in the relevant section of the Guidelines.

<If debarment for more than one year by the World Bank Group is NOT imposed, use the following sentence B).>

B) I certify that the Bidder has NOT been debarred by the World Bank Group for more than one year since the date of issuance of Invitation for Bids.¹

<If debarment for more than one year by the World Bank Group has been imposed BUT three (3) years have passed since the date of such debarment decision, use the following sentence B’).>

B’) I certify that the Bidder has been debarred by the World Bank Group for a period more than one year BUT that on the date of issuance of Invitation for Bids at least three (3) years had passed since the date of such debarment decision. Details of the debarment are as follows:

name of the debarred firm	starting date of debarment	ending date of debarment	reason for debarment

- C) I certify that the Bidder will not enter into a subcontract with a firm which has been debarred by the World Bank Group for a period more than one year, unless on the date of the subcontract at least three (3) years have passed since the date of such debarment decision.
- D) I certify, on behalf of the Bidder, that if selected to undertake services in connection with the Contract, the Bidder shall carry out such services in continuing compliance with the terms and conditions of the Guidelines.
- E) I further certify, on behalf of the Bidder, that if the Bidder is requested, directly or indirectly, to engage in any corrupt or fraudulent action under any applicable law, such as the payment of a rebate, at any time during a process of public procurement, negotiations, execution or implementation of contract (including amendment thereof), the Bidder shall report all relevant facts regarding such request to the relevant section in JICA (details of which are specified below) in a timely manner.

JICA's information desk on fraud and corruption (A report can be made to either of the offices identified below.)

- (1) JICA Headquarters: Legal Affairs Division, General Affairs Department

URL: <https://www2.jica.go.jp/en/odainfo/index.php>

Tel: +81 (0)3 5226 8850

- (2) JICA India office

Japan International Cooperation Agency

JICA India Office

16th Floor, Hindustan Times House

18-20, Kasturba Gandhi Marg

New Delhi - 110 001

Tel: +91-11-49097000

The Bidder acknowledges and agrees that the reporting obligation stated above shall NOT in any way affect the Bidder's responsibilities, obligations or rights, under relevant laws, regulations, contracts, guidelines or otherwise, to disclose or report such request or other information to any other person(s) or to take any other action, required to or allowed to, be taken by the Bidder. The Bidder further acknowledges and agrees that JICA is not involved in or responsible for the procurement process in any way.

- F) If any of the statements made herein is subsequently proven to be untrue or incorrect based on facts subsequently determined, or if any of the warranties or covenants made herein is not complied with, the Bidder will accept, comply with, and not object to any remedies taken by the Employer and any sanctions imposed by or actions taken by JICA.

Authorized Signatory

[Insert name of signatory; title]

For and on behalf of *[Insert name of the Bidder]*

Date:

Form of Bid Security (Bank Guarantee)

[*Guarantor letterhead or SWIFT identifier code*]

Beneficiary: [*Employer to insert its name and address*]

IFB No.: [*Employer to insert number of Invitation for Bids*]

Date: [*insert date of issue*]

BID GUARANTEE No.: [*insert guarantee reference number*]

Guarantor: [*insert name and address of place of issue, unless indicated in the letterhead*]

We have been informed that [*insert name of the Bidder, which in the case of a joint venture shall be the name of the joint venture (whether legally constituted or prospective) or the names of all members thereof*] (hereinafter called “the Applicant”) has submitted or will submit to the Beneficiary its Bid (hereinafter called “the Bid”) for the execution of [*insert description of Contract*] under Loan Agreement No. [*insert Loan Agreement Number*].

Furthermore, we understand that, according to the Beneficiary’s conditions, Bids must be supported by a bid guarantee.

At the request of the Applicant, we, as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of [*insert amount in words, (insert amount in figures)*] upon receipt by us of the Beneficiary’s complying demand, supported by the Beneficiary’s statement, whether in the demand itself or a separate signed document accompanying or identifying the demand, stating that either the Applicant:

- (a) has withdrawn its Bid during the period of Bid validity set forth in the Applicant’s Letter of Bid (hereinafter called “the Bid Validity Period”), or any extension thereto provided by the Applicant; or
- (b) having been notified of the acceptance of its Bid by the Beneficiary during the Bid Validity Period or any extension thereto provided by the Applicant, (i) fails to execute the Contract Agreement, or (ii) fails to furnish the Performance Security, in accordance with the Instructions to Bidders of the Beneficiary’s Bidding Documents.

This guarantee will expire and shall be returned to the Applicant: (a) if the Applicant is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Applicant and the Performance Security issued to the Beneficiary in relation to such Contract Agreement; or (b) if the Applicant is not the successful Bidder, upon the earlier of (i) our receipt of a copy of the Beneficiary’s notification to the Applicant of the results of the bidding process; or (ii) twenty-eight (28) days after the end of the Bid Validity Period.

Consequently, any demand for payment under this guarantee must be received by us at the office indicated above on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458¹.

[signature(s)]

[Note: All italicized text is for use in preparing this form and shall be deleted from the final product.]

¹ As the case may be, ICC Publication No. 758 (or subsequent ICC Publications) may be used. In such cases, modify the Publication number.

Form of Bid Security (Bid Bond)

BOND NO. [*insert Bond No.*]

BY THIS BOND [*insert name of Bidder*] as Principal (hereinafter called “the Principal”), and [*insert name, legal title, and address of surety*], authorized to transact business in [*insert name of country of Employer*], as Surety (hereinafter called “the Surety”), are held and firmly bound unto [*insert name of Employer*] as Obligee (hereinafter called “the Employer”) in the sum of [*insert amount of Bond in words and figures*]¹, for the payment of which sum, well and truly to be made, we, the said Principal and Surety, bind ourselves, our successors and assigns, jointly and severally, firmly by these presents.

WHEREAS the Principal has submitted a written Bid to the Employer dated the [*insert day*] day of [*insert month*], 20 [*insert year*], for the construction of [*insert name of Contract*] (hereinafter called the “Bid”).

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION is such that if the Principal:

- (a) withdraws its Bid during the period of Bid validity specified in the Form of Bid; or
- (b) having been notified of the acceptance of its Bid by the Employer during the period of Bid validity; (i) fails or refuses to execute the Contract Form, if required; or (ii) fails or refuses to furnish the Performance Security in accordance with the Instructions to Bidders;

then the Surety undertakes to immediately pay to the Employer up to the above amount upon receipt of the Employer’s first written demand, without the Employer having to substantiate its demand, provided that in its demand the Employer shall state that the demand arises from the occurrence of any of the above events, specifying which event(s) has occurred.

The Surety hereby agrees that its obligation will remain in full force and effect up to and including the date twenty-eight (28) days after the date of expiration of the Bid validity as stated in the Invitation for Bid or extended by the Employer at any time prior to this date, notice of which extension(s) to the Surety being hereby waived.

IN TESTIMONY WHEREOF, the Principal and the Surety have caused these presents to be executed in their respective names this [*insert day*] day of [*insert month*] 20 [*insert year*].

Principal: _____

Surety: _____

Corporate Seal (where appropriate)

(Signature)

(Signature)

(Printed name and title)

(Printed name and title)

¹ The amount of the Bond shall be denominated in the currency of the Employer’s country or the equivalent amount in a freely convertible currency.

² In case the bank issuing the bank guarantee is located outside India, it shall have correspondent bank located in India to make it enforceable. Besides, it shall carry the confirmation of the correspondent Bank located in India.

³ The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by [Insert name of the Bidder] and/or any other person. The Guarantor Bank shall not require OPTCL to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any resource against OPTCL in respect of any payment made hereunder.

Section V. Eligible Source Countries of Japanese ODA Loans

All the countries and areas as the eligible source countries

PART 2 - Employer's Requirements

Section VI. Employer's Requirements

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Scope of Supply of Plant and Installation Services by the Contractor

Brief Scope of Works under Kuakhia Substation (Package-3A) at Kuakhia:

Following are the brief scope of works;

Sl No.	Type of Equipment	Detail Description	Remarks
1	220kV Outdoor Gas Insulated Switchgear, 50 HZ	Bus Configuration: Double Busbar Bus Rating: 3150A, 50kA for 3 Sec. Line Feeder: 2000A 4 Nos Transformer Feeder: 2000A 2 Nos Bus Coupler Feeder: 3150A 1 No Bus PT Module (2 Nos PT): 1 No 220kV Gas Insulated Bus-duct: 1 Lot	
2	132kV Outdoor Gas Insulated Switchgear, 50 HZ	Bus Configuration: Double Busbar Bus Rating: 2000A, 40kA for 3 Sec. Line Feeder: 2000A 2 Nos Transformer Feeder: 2000A 4 Nos Bus Coupler Feeder: 2000A 1 No Bus PT Module (2 Nos PT): 1 No 132kV Gas Insulated Bus-duct: 1 Lot	
3	33kV Indoor Gas Insulated Switchgear, 50 HZ	Bus Configuration: Double Busbar Bus Rating: 2000A, 31.5kA for 3 Sec. Line Feeder: 1250A 4 Nos Transformer Feeder: 1250A 3 Nos Bus Coupler Feeder: 2000A 1 Nos Bus PT Module (2 Nos PT): 1 Nos	
4	Auto Transformer	160MVA, 3 Phase 220/132kV Transformer: 2 Nos	
5	Power Transformer	40MVA, 3 Phase 132/33kV Transformer: 2 Nos	

Specification

Major Equipment to be supplied under this contract:

Sl. No.	Descriptions
1.	220 / 132kV Gas Insulated Switchgear (GIS)
2.	220/132 kV , 160MVA Auto Transformer
3.	132/33kV, 40MVA Power Transformer
4.	220 kV CVT (part of AIS)
5.	216 kV LA (part of AIS)
6.	220 kV Disconnecting Switch (part of AIS)
7.	220 kV Bus Post Insulator (part of AIS)
8.	220 kV CR Panel
9.	132 kV CVT (part of AIS)
10.	120 kV LA (part of AIS)
11.	132 kV Disconnecting Switch (part of AIS)
12.	132 kV Bus Post Insulator (part of AIS)
13.	132 kV CR Panel
14.	132 kV and 33kV cable & Cable Connection System
15.	33kV Indoor GIS comprising of Circuit Breaker, Isolator, Motorised Earth Switch, Current Transformer & Potential Transformer
16.	Substation LV ACBD, EDG, DC UPS, AC UPS, SCADA & Automation system
17.	LV Power cable , Control cable, I&C cable and FO Cable etc.
18.	Gantry Structure, Structure for Columns Beams & Equipment
19.	ACSR Zebra/ Moose/Low Loss ACSR / ACSR with hardware, insulators & accessories, OPGW conductor etc.
20.	Earthing & Lightning Protection material & accessories
21	Substation illumination system
22	M.S. Rod

Detailed Technical Specification is enclosed at Volume 3 of 3 in the Bidding Documents. Bidders are requested to refer Volume 3 of 3 in the Bidding Documents for detailed technical scope and specification of Supply of Plant and Installation Services.

Project License:

The HT/Project license is a must to execute the Contract in the State of Odisha, the said requirement is now being considered as a part of the Employers' requirement under Section V which applicable only to the successful bidder.

Training:

The following numbers of Engineers nominated by Employer shall be provided with training at manufacturer's work.

1. Control, protection & Substation Automation System –Two (2) Engineers for one (1) week
2. Outdoor GIS –Four (4) Engineers for one (1) week.

Employer's Engineer's Site Office:

The Employer's Engineer's office at site or nearest town shall be an independent house or building with 100 mm square, a meeting room for 10 attendants with adequate furniture, kitchen, sanitary facilities (toilets, bathroom etc), air conditioner and car parking for three (3) vehicles at the adequate place of the office.

Providing vehicle to the field Engineers for proper supervision of site works:

- (i) For effective monitoring of the site works, the contractor shall submit monthly and weekly program of site work well in advance in prescribed format to OPTCL site engineer.
- (ii) In case of transmission line work, the contractor shall clearly indicate the location no. in the program.
- (iii) Contractor shall provide a four wheeler vehicle in good running condition and suitable for the site use to the field officers of the respective head-quarters to visit different work locations for monitoring the site works as per the program and back to the headquarters after monitoring the work.

Note: The expenses towards above, including cost pertaining to up-keeping cost of the vehicle, i.e. fuel, driver etc., shall be deemed to be included in the bidder's quoted price without any additional financial implication to OPTCL. Bidder shall not be eligible to raise any extra claim in this regard.

Forms and Procedures

Form of Completion Certificate

Date: *[insert date]*
Loan Agreement N^o: *[insert number]*
IFB N^o: *[insert number]*

[Name of Contract]

To: *[Name and address of Contractor]*

Dear Sirs,

Pursuant to GC Clause 24 (Completion of the Facilities) of the General Conditions of the Contract entered into between yourselves and the Employer dated *[insert date]*, relating to the *[brief description of the Facilities]*, we hereby notify you that the following part(s) of the Facilities was(were) complete on the date specified below, in accordance with the terms of the Contract.

1. Description of the Facilities or part thereof: *[insert description]*
2. Date of Completion: *[insert date]*

However, you are required to complete the outstanding items listed in the attachment hereto as soon as practicable.

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

Title
(Project Manager)

Form of Operational Acceptance Certificate

Date: *[insert date]*
Loan Agreement N^o: *[insert number]*
IFB N^o: *[insert number]*

[Name of Contract]

To: *[Name and address of Contractor]*

Dear Sirs,

Pursuant to GC Sub-Clause 25.3 (Operational Acceptance) of the General Conditions of the Contract entered into between yourselves and the Employer dated *[insert date]*, relating to the *[brief description of the Facilities]*, we hereby notify you that the Functional Guarantees of the following part(s) of the Facilities were satisfactorily attained on the date specified below.

1. Description of the Facilities or part thereof: *[insert description]*
2. Date of Operational Acceptance: *[insert date]*

This letter does not relieve you of your obligation to complete the execution of the Facilities in accordance with the Contract nor of your obligations during the Defect Liability Period.

Very truly yours,

Title
(Project Manager)

Change Order Procedure and Forms

Date: *[insert date]*
Loan Agreement N^o: *[insert number]*
IFB N^o: *[insert number]*

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1. General
2. Change Order Log
3. References for Changes

ANNEXES

- Annex 1 Request for Change Proposal
- Annex 2 Estimate for Change Proposal
- Annex 3 Acceptance of Estimate
- Annex 4 Change Proposal
- Annex 5 Change Order
- Annex 6 Pending Agreement Change Order
- Annex 7 Application for Change Proposal
- Annex 8 Change Order log
- Annex 9 Proforma - I (Undertaking for Completeness of Plants)

Change Order Procedure

1. General

This section provides samples of procedures and forms for implementing changes in the Facilities during the performance of the Contract in accordance with GC Clause 39 (Change in the Facilities) of the General Conditions of the Contract.

2. Change Order Log

The Contractor shall keep an up-to-date Change Order log to show the current status of Requests for Change and Changes authorized or pending, as Annex 8. Entries of the Changes in the Change Order log shall be made to ensure that the log is up-to-date. The Contractor shall attach a copy of the current Change Order Log in the monthly progress report to be submitted to the Employer.

3. References for Changes

- (1) Request for Change as referred to in GC Clause 39 shall be serially numbered CR-X-nnn.
- (2) Estimate for Change Proposal as referred to in GC Clause 39 shall be serially numbered CN-X-nnn.
- (3) Acceptance of Estimate as referred to in GC Clause 39 shall be serially numbered CA-X-nnn.
- (4) Change Proposal as referred to in GC Clause 39 shall be serially numbered CP-X-nnn.
- (5) Change Order as referred to in GC Clause 39 shall be serially numbered CO-X-nnn.

Note: (a) Requests for Change issued from the Employer's Home Office and the Site representatives of the Employer shall have the following respective references:

Home Office	CR-H-nnn
Site	CR-S-nnn

- (b) The above number "nnn" is the same for Request for Change, Estimate for Change Proposal, Acceptance of Estimate, Change Proposal and Change Order.

Annex 1. Request for Change Proposal

(Employer's Letterhead)

To: *[insert Contractor's name and address]*

Date: *[insert date]*

Attention: *[insert name and title]*

Contract Name: *[insert Contract name]*

Contract Number: *[insert Contract number]*

Dear Sirs,

With reference to the captioned Contract, you are requested to prepare and submit a Change Proposal for the Change noted below in accordance with the following instructions within *[insert number of days]* days of the date of this letter *[or on or before (date)]*.

1. Title of Change: *[insert title]* _____
2. Change Request No.: *[insert number]* _____
3. Originator of Change: Employer: *[insert name of Employer]* _____
Contractor (by Application for Change Proposal No. *[insert number]*) _____
4. Brief Description of Change: *[insert description]* _____
5. Facilities and/or Item No. of equipment related to the requested Change: *[insert description]* _____
6. Reference drawings and/or technical documents for the request of Change:

<u>Drawing No./Document No.</u>	<u>Description</u>
7. Detailed conditions or special requirements on the requested Change: _____
8. General Terms and Conditions:
 - (a) Please submit your estimate to us showing what effect the requested Change will have on the Contract Price.
 - (b) Your estimate shall include your claim for the additional time, if any, for completion of the requested Change.

- (c) If you have any opinion negative to the adoption of the requested Change in connection with the conformability to the other provisions of the Contract or the safety of the Plant or Facilities, please inform us of your opinion in your proposal of revised provisions.
- (d) Any increase or decrease in the work of the Contractor relating to the services of its personnel shall be calculated.
- (e) You shall not proceed with the execution of the work for the requested Change until we have accepted and confirmed the amount and nature in writing.

(Employer's Name)

(Signature)

(Name of signatory)

(Title of signatory)

Annex 2. Estimate for Change Proposal

(Contractor's Letterhead)

To: *[insert Employer's Name and address]*

Date: *[insert date]*

Attention: *[insert name and title]*

Contract Name: *[insert Contract name]*

Contract Number: *[insert Contract number]*

Dear Sirs,

With reference to your Request for Change Proposal, we are pleased to notify you of the approximate cost of preparing the below-referenced Change Proposal in accordance with GC Sub-Clause 39.2.1 of the General Conditions of the Contract. We acknowledge that your agreement to the cost of preparing the Change Proposal, in accordance with GC Sub-Clause 39.2.2 of the General Conditions of the Contract, is required before estimating the cost for change work.

1. Title of Change: *[insert title]* _____
2. Change Request No./Rev.: *[insert number]* _____
3. Brief Description of Change: *[insert description]* _____
4. Scheduled Impact of Change: *[insert description]* _____
5. Cost for Preparation of Change Proposal: *[insert cost]* _____¹

(a)	Engineering	(Amount)
-----	-------------	----------

(i)	Engineer	_____ hrs	x	_____ rate/hr	=	_____
-----	----------	-----------	---	---------------	---	-------

(ii)	Draftsperson	_____ hrs	x	_____ rate/hr	=	_____
------	--------------	-----------	---	---------------	---	-------

	Sub-total	_____ hrs					_____
--	-----------	-----------	--	--	--	--	-------

	Total Engineering Cost		_____
--	------------------------	--	-------

(b)	Other Cost		_____
-----	------------	--	-------

	Total Cost (a) + (b)		_____
--	----------------------	--	-------

¹ Cost shall be in the currencies of the Contract.

(Contractor's Name)

(Signature)

(Name of signatory)

(Title of signatory)

Annex 3. Acceptance of Estimate

(Employer's Letterhead)

To: *[insert Contractor's name and address]*

Date: *[insert date]*

Attention: *[insert name and title]*

Contract Name: *[insert Contract name]*

Contract Number: *[insert Contract number]*

Dear Sirs,

We hereby accept your Estimate for Change Proposal and agree that you should proceed with the preparation of the Change Proposal.

1. Title of Change: *[insert title]* _____
2. Change Request No./Rev.: *[insert number]* _____
3. Estimate for Change Proposal No./Rev.: *[insert number]* _____
4. Acceptance of Estimate No./Rev.: *[insert number]* _____
5. Brief Description of Change: *[insert description]* _____
6. Other Terms and Conditions: In the event that we decide not to order the Change accepted, you shall be entitled to compensation for the cost of preparation of Change Proposal described in your Estimate for Change Proposal mentioned in 3 above, in accordance with GC Clause 39 of the General Conditions of the Contract.

(Employer's Name)

(Signature)

(Name and Title of signatory)

Annex 4. Change Proposal

(Contractor's Letterhead)

To: *[insert Employer's Name and address]*

Date: *[insert date]*

Attention: *[insert name and title]*

Contract Name: *[insert Contract name]*

Contract Number: *[insert Contract number]*

Dear Sirs,

In response to your Request for Change Proposal No. *[insert number]*, we hereby submit our proposal as follows:

1. Title of Change: *[insert title]* _____
2. Change Proposal No./Rev.: *[insert number]* _____
3. Originator of Change: Employer: *[insert name of Employer]* _____
Contractor: *[insert name of Contractor]* _____
4. Brief Description of Change: *[insert description]* _____
5. Reasons for Change: *[insert reason]* _____
6. Facilities and/or Item No. of Equipment related to the requested Change: *[insert description]* _____
7. Reference drawings and/or technical documents for the requested Change:

<u>Drawing/Document No.</u>	<u>Description</u>

8. Estimate of increase/decrease to the Contract Price resulting from Change Proposal:¹

(Amount)

(a) Direct material _____

¹ Increase and/or decrease to the Contract Price shall be in the currencies of the Contract.

- (b) Major construction equipment _____
- (c) Direct field labor (Total _____ hrs) _____
- (d) Subcontracts _____
- (e) Indirect material and labor _____
- (f) Site supervision _____
- (g) Head office technical staff salaries

Process engineer	_____ hrs @ _____ rate/hr	_____
Project engineer	_____ hrs @ _____ rate/hr	_____
Equipment engineer	_____ hrs @ _____ rate/hr	_____
Procurement	_____ hrs @ _____ rate/hr	_____
Draftsperson	_____ hrs @ _____ rate/hr	_____
Total	_____ hrs	_____

- (h) Extraordinary costs (computer, travel, etc.) _____
- (i) Fee for general administration, _____ % of Items _____
- (j) Taxes and customs duties _____

Total lump sum cost of Change Proposal _____
(Sum of items (a) to (j))

Cost to prepare Estimate for Change Proposal _____
(Amount payable if Change is not accepted)

- 9. Additional time for Completion required due to Change Proposal
- 10. Effect on the Functional Guarantees
- 11. Effect on the other terms and conditions of the Contract
- 12. Validity of this Proposal: within [number] days after receipt of this Proposal by the Employer
- 13. Other terms and conditions of this Change Proposal:
 - (a) You are requested to notify us of your acceptance, comments or rejection of this detailed Change Proposal within [number] days from your receipt of this Proposal.

- (b) The amount of any increase and/or decrease shall be taken into account in the adjustment of the Contract Price.

- (c) Contractor's cost for preparation of this Change Proposal:
[Note: This cost shall be reimbursed by the Employer in case of Employer's withdrawal or rejection of this Change Proposal without default of the Contractor in accordance with GC 39 of the General Conditions of the Contract.]

(Contractor's Name)

(Signature)

(Name of signatory)

(Title of signatory)

Annex 5. Change Order

(Employer's Letterhead)

To: *[insert Contractor's name and address]*

Date: *[insert date]*

Attention: *[insert name and title]*

Contract Name: *[insert Contract name]*

Contract Number: *[insert Contract number]*

Dear Sirs,

We approve the Change Order for the Facilities specified in the Change Proposal (No. *[insert number]*), and agree to adjust the Contract Price, Time for Completion and/or other conditions of the Contract in accordance with GC Clause 39 of the General Conditions of the Contract.

1. Title of Change: *[insert title]* _____
2. Change Request No./Rev.: *[insert number]* _____
3. Change Order No./Rev.: *[insert number]* _____
4. Originator of Change: Employer: *[insert name of Employer]* _____
Contractor: *[insert name of Contractor]* _____
5. Authorized Price:

Ref. No.: *[insert number]* _____ Date: *[insert date]* _____
Foreign currency portion: *[insert amount]* _____ plus Local currency portion:
[insert amount] _____
6. Adjustment of Time for Completion

None Increase *[insert number]* days Decrease *[insert number]* days
7. Other effects, if any

Authorized by: _____ Date: _____
(Employer)

Accepted by: _____ Date: _____
(Contractor)

Annex 6. Pending Agreement Change Order

(Employer's Letterhead)

To: *[insert Contractor's name and address]*

Date: *[insert date]*

Attention: *[insert name and title]*

Contract Name: *[insert Contract name]*

Contract Number: *[insert Contract number]*

Dear Sirs,

We instruct you to carry out the work in the Change Order detailed below in accordance with Clause 39 of the General Conditions.

1. Title of Change: *[insert title]* _____
2. Employer's Request for Change Proposal No./Rev.: *[insert number]* _____
dated: *[insert date]* _____
3. Contractor's Change Proposal No./Rev.: *[insert number]* _____
dated: *[insert date]* _____
4. Brief Description of Change: *[insert description]* _____
5. Facilities and/or Item No. of equipment related to the requested Change: *[insert description]* _____
6. Reference Drawings and/or technical documents for the requested Change:

Drawing/Document No.

Description

7. Adjustment of Time for Completion:
8. Other change in the Contract terms:
9. Other terms and conditions:

(Employer's Name)

(Signature)

(Name of signatory)

(Title of signatory)

Annex 7. Application for Change Proposal

(Contractor's Letterhead)

To: *[insert Employer's Name and address]*Date: *[insert date]*Attention: *[insert name and title]*Contract Name: *[insert Contract name]*Contract Number: *[insert Contract number]*

Dear Sirs,

We hereby propose that the below-mentioned work be treated as a Change in the Facilities.

1. Title of Change: *[insert title]* _____
2. Application for Change Proposal No./Rev.: *[insert number]* _____ dated: *[insert date]* _____
3. Brief Description of Change: *[insert description]* _____
4. Reasons for Change: *[insert reason]* _____
5. Order of Magnitude Estimation (in the currencies of the Contract): *[insert amount]* _____
6. Scheduled Impact of Change: *[insert scheduled impact]* _____
7. Effect on Functional Guarantees, if any: *[insert effect, if any]* _____
8. Appendix:

(Contractor's Name)_____
(Signature)_____
(Name of signatory)_____
(Title of signatory)

Annex 8. Change Order log

[The Contractor shall prepare an up-to-date Change Order log, in accordance with Clause 2 of the Change Order Procedure, and attach a copy of it to the monthly progress report to be submitted to the Employer.]

Annex 9. Proforma - I
UNDERTAKING

(Completeness of Plants)

We hereby undertake to confirm that _____ (Plant as per Annexure enclosed) has been delivered and installed by us complete in all respect as specified in Schedule ____ attached with contract no. _____ dated _____.

We undertake to deliver and install any minor item which might not have been mentioned in the subject schedule but may be necessary for satisfactory operation of the plant.

**Signature of Authorized
Signatory with seal
of the Company**

Place:

Date:

Indemnity Bond

**PROFORMA OF INDEMNITY BOND TO BE EXECUTED BY
THE CONTRACTOR FOR THE EQUIPMENT HANDED OVER
FOR PERFORMANCE OF ITS CONTRACT**

(Entire Materials/Equipment Consignment in one lot)

(On non-Judicial stamp paper of appropriate value)

INDEMNITY BOND

THIS INDEMNITY BOND is made this..... day of 20by M/s/ Shri..... and Address a Company registered under the Companies Act, 1956/ Partnership Firm/ Proprietary Concern having its Registered Office at(hereinafter called as ‘Contractor’” which expression shall include its successors and permitted assigns) in favour of Odisha Power Transmission Corporation Ltd., a Company incorporated under the Companies Act, 1956 having its Registered Office at Janpath, Bhubaneswar (hereinafter called “OPTCL” which expression shall include its successors/administrator and assign) :

WHEREAS THE OPTCL has awarded to the Contractor vide its Letter of Award/Contract Agreement No..... dated and its Amendment No..... and Amendment No. (applicable when amendments have been issued) (hereinafter called the “Contract”) forin terms of which the Contractor is to supply the Materials/Equipment at work site of the OPTCL, in consideration of payment received against such Materials/Equipment from OPTCL.

AND WHEREAS Such Materials/Equipment are required to be handed over by the OPTCL to the contractor at contractor's site for utilization of those materials and equipment in execution of the Contract.

And WHEREAS by virtue of Clause No..... of the said Contract, the Contractor is required to execute an Indemnity Bond in favour of OPTCL *** for the purpose of performance of the Contract.

NOW THEREFORE, This Indemnity Bond witnesseth as follows:

1. That in consideration of various Materials/Equipment as mentioned in the Contract, valued at Rs. (Rupees.....) received by the Contractor from OPTCL for the purpose of performance of the Contract, the Contractor hereby undertakes to indemnify and shall keep OPTCL

*** indemnified, for the full value of the Materials/Equipment. The Contractor hereby acknowledges receipt of the Materials/Equipment as per dispatch title documents handed over to the Contractor duly endorsed in their favour and detailed in the Schedule appended hereto. It is expressly understood by the Contractor that handing over of the dispatch title documents in respect of the said Materials/Equipment duly endorsed by OPTCL *** in favour of the Contractor shall be construed as handing over of the Materials/Equipment purported to be covered by such title documents and the Contractor shall hold such Materials/Equipment in trust as a Trustee for and on behalf of OPTCL ***.

2. That the Contractor is obliged and shall remain absolutely responsible for the safe transit/ protection and custody of the Materials/Equipment at *** project Site against all risks, whatsoever till the Materials/Equipment are duly used/ erected in accordance with the terms of the Contract and the Plant/ Package duly erected and commissioned in accordance with the terms of the Contract is taken over by OPTCL. The Contractor undertakes to keep OPTCL harmless against any loss or damage that may be caused to the Materials/Equipment.
3. The Contractor undertakes that the Materials/Equipment shall be used exclusively for the performance/ execution of the Contract strictly in accordance with its terms and conditions and no part of the Materials/equipment shall be utilized for any other work or purpose whatsoever. It is clearly understood by the Contractor that non-observance of the obligations under this Indemnity Bond by the Contractor shall inter-alia constitute a criminal breach of trust on the part of the Contractor for all intents and purpose including legal/ penal consequences.
4. That OPTCL is and shall at all times remain the exclusive Owner of the Materials/Equipment free from all encumbrances, charges or liens of any kind, whatsoever. The Materials/Equipment shall at all times be open to inspection and checking by Engineer-in-Charge of the work to be performed by the Contractor under the said contract and/or any officer or agents authorized by him in this regard. Further, OPTCL shall always be free at all times to take possession of the Materials/Equipment that are likely to be endangered, mis-utilised or converted to uses other than those specified in the Contract, by any acts of omission or commission on the part of the Contractor or any other person or on account of any reason whatsoever and the Contractor binds himself and undertakes to comply with the directions or demand of OPTCL to return the Materials/Equipment without any demur or reservation.
5. That this Indemnity Bond is irrevocable. If at any time any loss or damage occurs to the Materials/Equipment or any part thereof is mis-utilised in any manner whatsoever, then the Contractor hereby agrees that the decision of the Engineer-in-Charge / Authorized / officer/representative of OPTCL as to assessment of loss or damage to the Materials/Equipment shall be final and binding on the Contractor. The Contractor binds itself and undertakes to replace the lost and/or damaged Materials/Equipment at his own cost and/ or shall pay the amount of loss to OPTCL without any demur, reservation or protest. This is without prejudice to any other right or remedy that may be available to OPTCL against the Contractor under the Contract and under this Indemnity Bond.

1. NOW THE CONDITION of this Bond is that the Contractor shall duly and punctually comply with the terms and conditions of this Bond to the satisfaction of OPTCL. The above Bond shall be void after all the obligations under this Bond are fulfilled by the Contractor, otherwise, it shall remain in full force and virtue.
2. IN WITNESS WHERE OF, the Contractor has hereunto set its hand through its authorized representative under the common seal of the Company, the day, month and year first above mentioned.

SCHEDULE

Particulars of the Materials/Equipment to be supplied	Quantity	Value of the Materials/Equipment
---	----------	----------------------------------

For and on behalf of

M/s.....

WITNESS

- | | | | |
|----|----|-----------------|------------------------------|
| 1. | 1. | Signature | Signature. |
| | 2. | Name | Name |
| | 3. | Address | Designation |
| | | | Authorized representative \$ |
| 2. | 1. | Signature | |
| | 2. | Name | (Common Seal) |
| | 3. | Address | (In case of Company) |

\$ Indemnity Bonds are to be executed by the authorized person and (i) in case of Contracting Company under common seal of the Company or (ii) having the Power of Attorney issued under common seal of the company with authority to execute Indemnity Bond, (iii) In case of (ii), the original Power of Attorney specifically executed for this Contract should be attached to Indemnity Bond.

*** to insert the designation of the Authorized Person appointed by the by the OPTCL for this purpose.

Drawings

Refer to Volume 3 of 3 in the Bidding Documents.

Supplementary Information

Not available

PART 3 - Conditions of Contract and Contract Forms

Section VII. General Conditions (GC)

The General Conditions governing this Contract are the Standard General Conditions of Contract set forth in Part 3, Section VII of the Standard Bidding Documents for Procurement of Plant Design, Supply and Installation (version 1.1) published by JICA in February, 2013. Those General Conditions of Contract are available on the JICA's web site shown below:

http://www.jica.go.jp/english/our_work/types_of_assistance/oda_loans/oda_op_info/guide/tender/index.html

A copy of these General Conditions is attached to these Bidding Documents/this Contract.

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A. Contract and Interpretation

1. Definitions

1.1 The following words and expressions shall have the meanings hereby assigned to them:

“Base Date” means the date 28 days prior to the latest date for submission of the Bid, when Single-Stage Bidding procedure is used.

“Base Date” means the date 28 days prior to the latest date for submission of the Second Stage Bid, when Two-Stage Bidding procedure is used.

“Commissioning” means operation of the Facilities or any part thereof by the Contractor following Completion, as provided in GC Sub-Clause 25.1 (Commissioning) hereof, for the purpose of carrying out Guarantee Test(s).

“Completion” means that the Facilities (or a specific part thereof where specific parts are specified in the Contract) have been completed operationally and structurally and put in a tight and clean condition, that all work in respect of Precommissioning of the Facilities or such specific part thereof has been completed, and that the Facilities or specific part thereof are ready for Commissioning as provided in GC Clause 24 (Completion) hereof.

“Construction Manager” means the person appointed by the Contractor’s Representative in the manner provided in GC Sub-Clause 17.2.4.

“Contract” means the Contract Agreement entered into between the Employer and the Contractor, together with the Contract Documents referred to therein; they shall constitute the Contract, and the term “the Contract” shall in all such documents be construed accordingly.

“Contract Documents” means the documents listed in Article 1.1 (Contract Documents) of the Contract Agreement (including any amendments thereto).

“Contract Price” means the sum specified in Article 2.1 (Contract Price) of the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.

“Contractor” means the person(s) whose Bid to perform the Contract has been accepted by the Employer and is named as

Contractor in the Contract Agreement, and includes the legal successors or permitted assigns of the Contractor.

“Contractor’s Equipment” means all facilities, equipment, machinery, tools, apparatus, appliances or things of every kind required in or for installation, completion and maintenance of Facilities that are to be provided by the Contractor, but does not include Plant, or other things intended to form or forming part of the Facilities.

“Contractor’s Representative” means any person nominated by the Contractor and approved by the Employer in the manner provided in GC Sub-Clause 17.2 (Contractor’s Representative and Construction Manager) hereof to perform the duties delegated by the Contractor.

“day” means calendar day.

“Defect Liability Period” means the period of validity of the warranties given by the Contractor commencing at Operational Acceptance of the Facilities or a part thereof, during which the Contractor is responsible for defects with respect to the Facilities (or the relevant part thereof) as provided in GC Clause 27 (Defect Liability) hereof.

“Dispute Board” (DB) means the person or persons appointed by agreement between the Employer and the Contractor to make a decision with respect to any dispute or difference between the Employer and the Contractor referred to him or her by the Parties pursuant to GC Sub-Clause 45.1 (Dispute Board) hereof.

“Effective Date” means the date of fulfillment of all conditions stated in Article 3 (Effective Date) of the Contract Agreement, from which the Time for Completion shall be counted.

“Employer” means the person **named as such in the PC** and includes the legal successors or permitted assigns of the Employer.

“Employer’s Requirements” means the document entitled employer’s requirements, as included in the Contract, and any additions and modifications to such document in accordance with the Contract. Such document includes Drawings, Specifications, and any other documents specifying the purpose, scope, and/or design and/or other technical criteria, for the Facilities.

“Facilities” means the Plant to be supplied and installed, as well as all the Installation Services to be carried out by the Contractor

under the Contract.

“GC” means the General Conditions hereof.

“Guarantee Test(s)” means the test(s) specified in the Contract to be carried out to ascertain whether the Facilities or a specified part thereof is able to attain the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, in accordance with the provisions of GC Sub-Clause 25.2 (Guarantee Test) hereof.

“Installation Services” means all those services ancillary to the supply of the Plant for the Facilities, to be provided by the Contractor under the Contract, such as transportation and provision of marine or other similar insurance, inspection, expediting, site preparation works (including the provision and use of Contractor’s Equipment and the supply of all construction materials required), installation, testing, precommissioning, commissioning, operations, maintenance, the provision of operations and maintenance manuals, training, etc. as the case may require.

“JICA” means Japan International Cooperation Agency.

“Letter of Acceptance” means the letter of formal acceptance, signed by the Employer, of the Letter of Bid, including any annexed memoranda comprising agreements between and signed by both Parties. If there is not such letter of acceptance, the expression “Letter of Acceptance” means the Contract Agreement and the date of issuing or receiving the Letter of Acceptance means the date of signing the Contract Agreement.

“Mandatory Spare Parts” means spare parts required up to Operational Acceptance of the Facilities (or any part of the Facilities where the Contract provides for acceptance of the Facilities in parts).

“month” means calendar month.

“Operational Acceptance” means the acceptance by the Employer of the Facilities (or any part of the Facilities where the Contract provides for acceptance of the Facilities in parts), which certifies the Contractor’s fulfillment of the Contract in respect of Functional Guarantees of the Facilities (or the relevant part thereof) in accordance with the provisions of GC Clause 28 (Functional Guarantees) hereof and shall include deemed acceptance in accordance with GC Clause 25 (Commissioning and Operational Acceptance) hereof.

“Party” means the Employer or the Contractor, as the context requires, and “Parties” means both of them.

“PC” means the Particular Conditions.

“Performance Security” means the security (or securities, if any) under GC Sub-Clause 13.3 (Performance Security).

“Plant” means permanent plant, equipment, machinery, apparatus, materials, articles and things of all kinds to be provided and incorporated in the Facilities by the Contractor under the Contract (including the spare parts to be supplied by the Contractor under GC Sub-Clause 7.3 hereof), but does not include Contractor’s Equipment.

“Precommissioning” means the testing, checking and other requirements specified in the Contract that are to be carried out by the Contractor in preparation for Commissioning as provided in GC Clause 24 (Completion) hereof.

“Project Manager” means the person appointed by the Employer in the manner provided in GC Sub-Clause 17.1 (Project Manager) hereof and **named as such in the PC** to perform the duties delegated by the Employer.

“Provisional Sum” means a sum which is specified in the Contract as a provisional sum, for the supply of any Plant and Installations Services or other services, included and so designated in the Price Schedules (Schedule No.5).

“Site” means the land and other places upon which the Facilities are to be installed, and such other land or places as may be specified in the Contract as forming part of the Site.

“Subcontractor,” including manufacturers, means any person to whom execution of any part of the Facilities, including preparation of any design or supply of any Plant, is sub-contracted directly or indirectly by the Contractor, and includes its legal successors or permitted assigns.

“Time for Completion” means the time within which Completion of the Facilities as a whole (or of a part of the Facilities where a separate Time for Completion of such part has been prescribed) is to be attained, as referred to in GC Clause 8 (Time for Commencement and Completion) and in accordance with the relevant provisions of the Contract.

“year” means 365 days.

- 2. Contract** 2.1 Subject to Article 1.2 (Order of Precedence) of the Contract

Documents

Agreement, all documents forming part of the Contract (and all parts thereof) are intended to be correlative, complementary and mutually explanatory. The Contract shall be read as a whole.

3. Interpretation 3.1

In the Contract, except where the context requires otherwise:

- (a) words indicating one gender include all genders;
- (b) words indicating the singular also include the plural and words indicating the plural also include the singular;
- (c) provisions including the word “agree,” “agreed,” or “agreement” require the agreement to be recorded in writing;
- (d) the word “Tender” is synonymous with “Bid,” “Tenderer,” with “Bidder,” and “Tender Documents” with “Bidding Documents;” and
- (e) “written” or “in writing” means hand-written, type-written, printed or electronically made, and resulting in a permanent record.

The marginal words and other headings shall not be taken into consideration in the interpretation of these Conditions.

3.2 Incoterms

Unless inconsistent with any provision of the Contract, the meaning of any trade term and the rights and obligations of Parties thereunder shall be as prescribed by *Incoterms*.

Incoterms means international rules for interpreting trade terms published by the International Chamber of Commerce (latest edition as of the Base Date), 38 Cours Albert 1^{er}, 75008 Paris, France.

3.3 Entire Agreement

Subject to GC Sub-Clause 16.4 hereof, the Contract constitutes the entire agreement between the Employer and Contractor with respect to the subject matter of Contract and supersedes all communications, negotiations and agreements (whether written or oral) of Parties with respect thereto made prior to the date of Contract.

3.4 Amendment

No amendment or other variation of the Contract shall be effective unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorized representative of

each Party hereto

3.5 Independent Contractor

The Contractor shall be an independent contractor performing the Contract. The Contract does not create any agency, partnership, joint venture or other joint relationship between the Parties hereto. Subject to the provisions of the Contract, the Contractor shall be solely responsible for the manner in which the Contract is performed. All employees, representatives or Subcontractors engaged by the Contractor in connection with the performance of the Contract shall be under the complete control of the Contractor and shall not be deemed to be employees of the Employer, and nothing contained in the Contract or in any subcontract awarded by the Contractor shall be construed to create any contractual relationship between any such employees, representatives or Subcontractors and the Employer.

3.6 Non-Waiver

3.6.1 Subject to GC Sub-Clause 3.6.2 below, no relaxation, forbearance, delay or indulgence by either Party in enforcing any of the terms and conditions of the Contract or the granting of time by either Party to the other shall prejudice, affect or restrict the rights of that Party under the Contract, nor shall any waiver by either Party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

3.6.2 Any waiver of a Party's rights, powers or remedies under the Contract must be in writing, must be dated and signed by an authorized representative of the Party granting such waiver, and must specify the right and the extent to which it is being waived.

3.7 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

3.8 Country of Origin

"Origin" means the place where the Plant and component parts thereof are mined, grown, produced or manufactured, and from which the services are provided. Plant components are produced when, through manufacturing, processing, or substantial or major assembling of components, a commercially recognized

product results that is substantially different in its basic characteristics or in purpose or utility from its components.

- 4. Communications** 4.1 Wherever these Conditions provide for the giving or issuing of approvals, certificates, consents, determinations, notices, requests and discharges, these communications shall be:

- (a) in writing and delivered against receipt; and
- (b) delivered, sent or transmitted to the address for the recipient's communications as stated in the Contract Agreement.

When a certificate is issued to a Party, the certifier shall send a copy to the other Party. When a notice is issued to a Party, by the other Party or the Project Manager, a copy shall be sent to the Project Manager or the other Party, as the case may be.

- 5. Law and Language** 5.1 The Contract shall be governed by and interpreted in accordance with laws of the country **specified in the PC.**

5.2 The ruling language of the Contract shall be that **stated in the PC.**

5.3 The language for communications shall be the ruling language unless otherwise **stated in the PC.**

- 6. Corrupt or Fraudulent Practices** 6.1 If the Employer determines, based on reasonable evidence, that the Contractor has engaged in corrupt, fraudulent, collusive or coercive practices, in competing for or in executing the Contract, then the Employer may, after giving fourteen (14) days notice to the Contractor, terminate the Contractor's employment under the Contract and expel him from the Site, and the provisions of GC Clause 42 shall apply as if such expulsion had been made under GC Sub-Clause 42.2.1 (c).

6.2 Should any employee of the Contractor be determined, based on reasonable evidence, to have engaged in corrupt, fraudulent, collusive or coercive practice during the execution of the Contract, then that employee shall be removed in accordance with GC Sub-Clauses 17.2.5.

B. Subject Matter of Contract

- 7. Scope of Facilities** 7.1 Unless otherwise expressly limited in the Employer's Requirements, the Contractor's obligations cover the provision of all Plant and the performance of all Installation Services required for the design, and the manufacture (including procurement, quality assurance, construction, installation, associated civil works, Precommissioning and delivery) of the

Plant, and the installation, completion and commissioning of the Facilities in accordance with the plans, procedures, specifications, drawings, codes and any other documents as specified in Section VI, Employer's Requirements. Such specifications include the provision of supervision and engineering services; the supply of labor, materials, equipment, spare parts (as specified in GC Sub-Clause 7.3 below) and accessories; Contractor's Equipment; construction utilities and supplies; temporary materials, structures and facilities; transportation (including, without limitation, unloading and hauling to, from and at the Site); and storage, except for those supplies, works and services that will be provided or performed by the Employer, as set forth in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer, or any other requirements specified in the Contract.

- 7.2 The Contractor shall, unless specifically excluded in the Contract, perform all such work and/or supply all such items and materials not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Completion of the Facilities as if such work and/or items and materials were expressly mentioned in the Contract.
- 7.3 In addition to the supply of Mandatory Spare Parts included in the Contract, the Contractor agrees to supply spare parts required for the operation and maintenance of the Facilities for the period **specified in the PC** and the provisions, if any, **specified in the PC**. However, the identity, specifications and quantities of such spare parts and the terms and conditions relating to the supply thereof are to be agreed between the Employer and the Contractor, and the price of such spare parts shall be that given in Price Schedule No. 7, which shall be added to the Contract Price. The price of such spare parts shall include the purchase price therefor and other costs and expenses (including the Contractor's fees) relating to the supply of spare parts.

- 8. Time for Commencement and Completion**
- 8.1 The Contractor shall commence work on the Facilities within the period **specified in the PC**, and without prejudice to GC Sub-Clause 26.2 hereof, the Contractor shall thereafter proceed with the Facilities in accordance with the time schedule specified in the Appendix to the Contract Agreement titled Time Schedule.
- 8.2 The Contractor shall attain Completion of the Facilities or of a part where a separate time for Completion of such part is specified in the Contract, within the time **stated in the PC** or within such extended time to which the Contractor shall be entitled under GC Clause 40 hereof.
- 9. Contractor's Responsibilities**
- 9.1 The Contractor shall design, manufacture including associated purchases and/or subcontracting, install and complete the Facilities in accordance with the Contract. When completed, the Facilities should be fit for the purposes for which they are intended as defined in the Contract.
- 9.2 The Contractor confirms that it has entered into this Contract on the basis of a proper examination of the data relating to the Facilities including any data as to boring tests provided by the Employer, and on the basis of information that the Contractor could have obtained from a visual inspection of the Site if access thereto was available and of other data readily available to it relating to the Facilities as of the Base Date. The Contractor acknowledges that any failure to acquaint itself with all such data and information shall not relieve its responsibility for properly estimating the difficulty or cost of successfully performing the Facilities.
- 9.3 The Contractor shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located which such authorities or undertakings require the Contractor to obtain in its name and which are necessary for the performance of the Contract, including, without limitation, visas for the Contractor's and Subcontractor's personnel and entry permits for all imported Contractor's Equipment. The Contractor shall acquire all other permits, approvals and/or licenses that are not the responsibility of the Employer under GC Sub-Clause 10.3 hereof and that are necessary for the performance of the Contract.
- 9.4 The Contractor shall comply with all laws in force in the country where the Facilities are to be implemented. The laws will include all local, state, national or other laws that affect the performance of the Contract and bind upon the Contractor. The

Contractor shall indemnify and hold harmless the Employer from and against any and all liabilities, damages, claims, fines, penalties and expenses of whatever nature arising or resulting from the violation of such laws by the Contractor or its personnel, including the Subcontractors and their personnel, but without prejudice to GC Sub-Clause 10.1 hereof.

9.5 Any Plant and Installation Services that will be incorporated in or be required for the Facilities and other supplies shall have their origin as specified under GC Clause 3.8 (Country of Origin). Any Subcontractors retained by the Contractor shall be from a country as specified in GC Clause 3.8 (Country of Origin).

9.6 If the Contractor is a joint venture (JV) of two or more persons, all such persons shall be jointly and severally bound to the Employer for the fulfillment of the provisions of the Contract, and shall designate one of such persons to act as a leader with authority to bind the JV. The composition or the constitution of the JV shall not be altered without the prior consent of the Employer.

10. Employer's Responsibilities

10.1 All information and/or data to be supplied by the Employer as described in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer, shall be deemed to be accurate, except when the Employer expressly states otherwise, and the Contractor shall not be liable for the consequences of any discrepancies, errors, omissions or inaccuracies in such information and/or data.

10.2 The Employer shall be responsible for acquiring and providing legal and physical possession of the Site and access thereto, and for providing possession of and access to all other areas reasonably required for the proper execution of the Contract, including all requisite rights of way, as specified in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer. The Employer shall give full possession of and accord all rights of access thereto on or before the date(s) specified in that Appendix.

10.3 The Employer shall acquire and pay for all permits, approvals and/or licenses from all local, state or national government authorities or public service undertakings in the country where the Site is located which (a) such authorities or undertakings require the Employer to obtain in the Employer's name, (b) are necessary for the execution of the Contract, including those required for the performance by both the Contractor and the Employer of their respective obligations under the Contract,

- and (c) are specified in the Appendix (Scope of Works and Supply by the Employer).
- 10.4 If requested by the Contractor, the Employer shall use its best endeavors to assist the Contractor in obtaining in a timely and expeditious manner all permits, approvals and/or licenses necessary for the execution of the Contract from all local, state or national government authorities or public service undertakings that such authorities or undertakings require the Contractor or Subcontractors or the personnel of the Contractor or Subcontractors, as the case may be, to obtain.
- 10.5 Unless otherwise specified in the Contract or agreed upon by the Employer and the Contractor, the Employer shall provide sufficient, properly qualified operating and maintenance personnel; shall supply and make available all raw materials, utilities, lubricants, chemicals, catalysts, other materials and facilities; and shall perform all work and services of whatsoever nature, including those required by the Contractor to properly carry out Precommissioning, Commissioning and Guarantee Tests, all in accordance with the provisions of the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer, at or before the time specified in the program furnished by the Contractor under GC Sub-Clause 18.2 hereof and in the manner thereupon specified or as otherwise agreed upon by the Employer and the Contractor.
- 10.6 All costs and expenses involved in the performance of the obligations under this GC Clause 10 shall be the responsibility of the Employer, save those to be incurred by the Contractor with respect to the performance of Guarantee Tests, in accordance with GC Sub-Clause 25.2.
- 10.7 In the event that the Employer shall be in breach of any of his obligations under this Clause, the additional cost incurred by the Contractor in consequence thereof shall be determined by the Project Manager and added to the Contract Price.

C. Payment

- 11. Contract Price**
- 11.1 The Contract Price shall be as specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement.
- 11.2 Unless an adjustment clause is **provided for in the PC**, the Contract Price shall be a firm lump sum not subject to any alteration, except in the event of a Change in the Facilities or as otherwise provided in the Contract.

11.3 Subject to GC Sub-Clauses 9.2, 10.1 and 35 hereof, the Contractor shall be deemed to have satisfied itself as to the correctness and sufficiency of the Contract Price, which shall, except as otherwise provided for in the Contract, cover all its obligations under the Contract.

12. Terms of Payment

12.1 The Contract Price shall be paid as specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement and in the Appendix to the Contract Agreement titled Terms and Procedures of Payment, which also outlines the procedures to be followed in making application for and processing payments.

12.2 No payment made by the Employer herein shall be deemed to constitute acceptance by the Employer of the Facilities or any part(s) thereof.

12.3 In the event that the Employer fails to make any payment by its respective due date or within the period set forth in the Contract, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate(s) shown in the Appendix to the Contract Agreement titled Terms and Procedures of Payment, for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.

12.4 The currency or currencies in which payments are made to the Contractor under this Contract shall be specified in the Appendix to the Contract Agreement titled Terms and Procedures of Payment, subject to the general principle that payments will be made in the currency or currencies in which the Contract Price has been stated in the Contractor's Bid.

13. Securities

13.1 Issuance of Securities

The Contractor shall provide the securities specified below in favor of the Employer at the times, and in the amount, manner and form specified below.

13.2 Advance Payment Security

13.2.1 The Contractor shall, within twenty-eight (28) days of the receipt of the Letter of Acceptance, provide a security in an amount equal to the advance payment calculated in accordance with the Appendix to the Contract Agreement titled Terms and Procedures of Payment, and in the same currency or currencies.

13.2.2 The security shall be in the form provided in the

Bidding Documents or in another form acceptable to the Employer. The amount of the security shall be reduced in proportion to the value of the Facilities executed by and paid to the Contractor from time to time, and shall automatically become null and void when the full amount of the advance payment has been recovered by the Employer. The security shall be returned to the Contractor immediately after its expiration.

13.3 Performance Security

13.3.1 The Contractor shall, within twenty-eight (28) days of the receipt of the Letter of Acceptance, provide a security for the due performance of the Contract in the amount **specified in the PC**.

13.3.2 The Performance Security shall be denominated in the currency or currencies of the Contract, or in a freely convertible currency acceptable to the Employer, and shall be in the form provided in Section IX, Contract Forms, corresponding to the type of bank guarantee **stipulated by the Employer in the PC**, or in another form acceptable to the Employer.

13.3.3 **Unless otherwise specified in the PC**, the security shall be reduced by half on the date of the Operational Acceptance. The security shall become null and void, or shall be reduced pro rata to the Contract Price of a part of the Facilities for which a separate Time for Completion is provided three hundred and sixty five (365) days after Operational Acceptance of the Facilities; provided, however, that if the Defects Liability Period has been extended on any part of the Facilities pursuant to GC Sub-Clause 27.8 hereof, the Contractor shall issue an additional security in an amount proportionate to the Contract Price of that part. The security shall be returned to the Contractor immediately after its expiration.

13.3.4 The Employer shall not make a claim under the Performance Security, except for amounts to which the Employer is entitled under the Contract. The Employer shall indemnify and hold the Contractor harmless against and from all damages, losses and expenses (including legal fees and expenses) resulting from a claim under the Performance Security to the extent to which the Employer was not entitled to make the

claim.

- 14. Taxes and Duties**
- 14.1 Except as otherwise specifically provided in the Contract, the Contractor shall bear and pay all taxes, duties, levies and charges assessed on the Contractor, its Subcontractors or their employees by all municipal, state or national government authorities in connection with the Facilities in and outside of the country where the Site is located.
- 14.2 Notwithstanding GC Sub-Clause 14.1 above, the Employer shall bear and promptly pay:
- (a) all customs and import duties for the Plant specified in Price Schedule No. 1; and
 - (b) other domestic taxes such as, sales tax and value added tax(VAT) on the Plant specified in Price Schedules No.1 and No.2 and that is to be incorporated into the Facilities, and on the finished goods, imposed by the law of the country where the Site is located.
- 14.3 If any tax exemptions, reductions, allowances or privileges may be available to the Contractor in the country where the Site is located, the Employer shall use its best endeavors to enable the Contractor to benefit from any such tax savings to the maximum allowable extent.
- 14.4 For the purpose of the Contract, it is agreed that the Contract Price specified in Article 2 (Contract Price and Terms of Payment) of the Contract Agreement is based on the taxes, duties, levies and charges prevailing at the Base Date in the country where the Site is located (hereinafter called "Tax" in this GC Sub-Clause 14.4). If any rates of Tax are increased or decreased, a new Tax is introduced, an existing Tax is abolished, or any change in interpretation or application of any Tax occurs in the course of the performance of Contract, which was or will be assessed on the Contractor, Subcontractors or their employees in connection with performance of the Contract, an equitable adjustment of the Contract Price shall be made to fully take into account any such change by addition to the Contract Price or deduction therefrom, as the case may be, in accordance with GC Clause 36 hereof.

D. Intellectual Property

- 15. License/Use of Technical Information**
- 15.1 For the operation and maintenance of the Plant, the Contractor hereby grants a non-exclusive and non-transferable license (without the right to sub-license) to the Employer under the

patents, utility models or other intellectual property rights owned by the Contractor or by a third Party from whom the Contractor has received the right to grant sub-licenses, and shall also grant to the Employer a non-exclusive and non-transferable right (without the right to sub-license) to use the know-how and other technical information disclosed to the Employer under the Contract. Nothing contained herein shall be construed as transferring ownership of any patent, utility model, trademark, design, copyright, know-how or other intellectual property right from the Contractor or any third Party to the Employer.

15.2 The copyright in all drawings, documents and other materials containing data and information furnished to the Employer by the Contractor herein shall remain vested in the Contractor or, if they are furnished to the Employer directly or through the Contractor by any third Party, including suppliers of materials, the copyright in such materials shall remain vested in such third Party.

16. Confidential Information

16.1 The Employer and the Contractor shall keep confidential and shall not, without the written consent of the other Party hereto, divulge to any third Party any documents, data or other information furnished directly or indirectly by the other Party hereto in connection with the Contract, whether such information has been furnished prior to, during or following termination of the Contract. Notwithstanding the above, the Contractor may furnish to its Subcontractor(s) such documents, data and other information it receives from the Employer to the extent required for the Subcontractor(s) to perform its work under the Contract, in which event the Contractor shall obtain from such Subcontractor(s) an undertaking of confidentiality similar to that imposed on the Contractor under this GC Clause 16.

16.2 The Employer shall not use such documents, data and other information received from the Contractor for any purpose other than the operation and maintenance of the Facilities. Similarly, the Contractor shall not use such documents, data and other information received from the Employer for any purpose other than the design, procurement of Plant, construction or such other work and services as are required for the performance of the Contract.

16.3 The obligation of a Party under GC Sub-Clauses 16.1 and 16.2 above, however, shall not apply to that information which:

(a) now or hereafter enters the public domain through no

fault of that Party;

- (b) can be proven to have been possessed by that Party at the time of disclosure and which was not previously obtained, directly or indirectly, from the other Party hereto; and
 - (c) otherwise lawfully becomes available to that Party from a third Party that has no obligation of confidentiality.
- 16.4 The above provisions of this GC Clause 16 shall not in any way modify any undertaking of confidentiality given by either of the Parties hereto prior to the date of the Contract in respect of the Facilities or any part thereof.
- 16.5 The provisions of this GC Clause 16 shall survive termination, for whatever reason, of the Contract.

E. Execution of the Facilities

17. Representatives 17.1 Project Manager

If the Project Manager is not named in the Contract, then within fourteen (14) days of the Effective Date, the Employer shall appoint and notify the Contractor in writing of the name of the Project Manager. The Employer may from time to time appoint some other person as the Project Manager in place of the person previously so appointed, and shall give a notice of the name of such other person to the Contractor without delay. No such appointment shall be made at such a time or in such a manner as to impede the progress of work on the Facilities. Such appointment shall only take effect upon receipt of such notice by the Contractor. The Project Manager shall represent and act for the Employer at all times during the performance of the Contract. All notices, instructions, orders, certificates, approvals and all other communications under the Contract shall be given by the Project Manager, except as herein otherwise provided.

All notices, instructions, information and other communications given by the Contractor to the Employer under the Contract shall be given to the Project Manager, except as herein otherwise provided.

17.2 Contractor's Representative & Construction Manager

17.2.1 If the Contractor's Representative is not named in the Contract, then within fourteen (14) days of the Effective Date, the Contractor shall appoint the

Contractor's Representative and shall request the Employer in writing to approve the person so appointed. If the Employer makes no objection to the appointment within fourteen (14) days, the Contractor's Representative shall be deemed to have been approved. If the Employer objects to the appointment within fourteen (14) days giving the reason therefor, then the Contractor shall appoint a replacement within fourteen (14) days of such objection, and the foregoing provisions of this GC Sub-Clause 17.2.1 shall apply thereto.

- 17.2.2 The Contractor's Representative shall represent and act for the Contractor at all times during the performance of the Contract and shall give to the Project Manager all the Contractor's notices, instructions, information and all other communications under the Contract.

All notices, instructions, information and all other communications given by the Employer or the Project Manager to the Contractor under the Contract shall be given to the Contractor's Representative or, in its absence, its deputy, except as herein otherwise provided.

The Contractor shall not revoke the appointment of the Contractor's Representative without the Employer's prior written consent, which shall not be unreasonably withheld. If the Employer consents thereto, the Contractor shall appoint some other person as the Contractor's Representative, pursuant to the procedure set out in GC Sub-Clause 17.2.1.

- 17.2.3 The Contractor's Representative may, subject to the approval of the Employer which shall not be unreasonably withheld, at any time delegate to any person any of the powers, functions and authorities vested in him or her. Any such delegation may be revoked at any time. Any such delegation or revocation shall be subject to a prior notice signed by the Contractor's Representative, and shall specify the powers, functions and authorities thereby delegated or revoked. No such delegation or revocation shall take effect unless and until a copy thereof has been delivered to the Employer and the Project Manager.

Any act or exercise by any person of powers,

functions and authorities so delegated to him or her in accordance with this GC Sub-Clause 17.2.3 shall be deemed to be an act or exercise by the Contractor's Representative.

17.2.4 From the commencement of installation of the Facilities at the Site until Completion, the Contractor's Representative shall appoint a suitable person as the Construction Manager. The Construction Manager shall supervise all work done at the Site by the Contractor and shall be present at the Site throughout normal working hours except when on leave, sick or absent for reasons connected with the proper performance of the Contract. Whenever the Construction Manager is absent from the Site, a suitable person shall be appointed to act as the Construction Manager's deputy.

17.2.5 The Employer may by notice to the Contractor object to any representative or person employed by the Contractor in the execution of the Contract who, in the reasonable opinion of the Employer, may behave inappropriately, may be incompetent or negligent, or may commit a serious breach of the Site regulations provided under GC Sub-Clause 22.4. The Employer shall provide evidence of the same, whereupon the Contractor shall remove such person from the Facilities.

17.2.6 If any representative or person employed by the Contractor is removed in accordance with GC Sub-Clause 17.2.5, the Contractor shall, where required, promptly appoint a replacement.

18. Work Program 18.1 Contractor's Organization

The Contractor shall supply to the Employer and the Project Manager a chart showing the proposed organization to be established by the Contractor for carrying out work on the Facilities within twenty-one (21) days of the Effective Date. The chart shall include the identities of the key personnel and the curricula vitae of such key personnel to be employed shall be supplied together with the chart. The Contractor shall promptly inform the Employer and the Project Manager in writing of any revision or alteration of such an organization chart.

18.2 Program of Performance

Within twenty-eight (28) days after the Effective Date, the Contractor shall submit to the Project Manager a detailed program of performance of the Contract, made in a form acceptable to the Project Manager and showing the sequence in which it proposes to design, manufacture, transport, assemble, install and precommission the Facilities, as well as the date by which the Contractor reasonably requires that the Employer shall have fulfilled its obligations under the Contract so as to enable the Contractor to execute the Contract in accordance with the program and to achieve Completion, Commissioning and Acceptance of the Facilities in accordance with the Contract. The program so submitted by the Contractor shall accord with the Time Schedule included in the Appendix to the Contract Agreement titled Time Schedule, and any other dates and periods specified in the Contract. The Contractor shall update and revise the program as and when appropriate or when required by the Project Manager, but without modification in the Times for Completion specified in the PC pursuant to Sub-Clause 8.2 and any extension granted in accordance with GC Clause 40, and shall submit all such revisions to the Project Manager.

18.3 Progress Report

The Contractor shall monitor progress of all the activities specified in the program referred to in GC Sub-Clause 18.2 above, and supply a progress report to the Project Manager every month.

The progress report shall be in a form acceptable to the Project Manager and shall indicate: (a) percentage completion achieved compared with the planned percentage completion for each activity; and (b) where any activity is behind the program, giving comments and likely consequences and stating the corrective action being taken.

18.4 Progress of Performance

If at any time the Contractor's actual progress falls behind the program referred to in GC Sub-Clause 18.2, or it becomes apparent that it will so fall behind, the Contractor shall, at the request of the Employer or the Project Manager, prepare and submit to the Project Manager a revised program, taking into account the prevailing circumstances, and shall notify the Project Manager of the steps being taken to expedite progress so as to attain Completion of the Facilities within the Time for

Completion under GC Sub-Clause 8.2, any extension thereof entitled under GC Sub-Clause 40.1, or any extended period as may otherwise be agreed upon between the Employer and the Contractor.

18.5 Procedures

The Contract shall be executed in accordance with the Contract Documents including the procedures given in the Forms and Procedures of the Employer's Requirements.

The Contractor may execute the Contract in accordance with its own standard project execution plans and procedures to the extent that they do not conflict with the provisions contained in the Contract.

- 19. Subcontracting**
- 19.1 The Appendix to the Contract Agreement titled List of Major Items of Plant and Installation Services and List of Approved Subcontractors, specifies major items of supply or services and a list of approved Subcontractors against each item, including manufacturers. Insofar as no Subcontractors are listed against any such item, the Contractor shall prepare a list of Subcontractors for such item for inclusion in such list. The Contractor may from time to time propose any addition to or deletion from any such list. The Contractor shall submit any such list or any modification thereto to the Employer for its approval in sufficient time so as not to impede the progress of work on the Facilities. Such approval by the Employer for any of the Subcontractors shall not relieve the Contractor from any of its obligations, duties or responsibilities under the Contract.
- 19.2 The Contractor shall select and employ its Subcontractors for such major items from those listed in the lists referred to in GC Sub-Clause 19.1.
- 19.3 For items or parts of the Facilities not specified in the Appendix to the Contract Agreement titled List of Major Items of Plant and Installation Services and List of Approved Subcontractors, the Contractor may employ such Subcontractors as it may select, at its discretion.
- 19.4 Each subcontract shall include provisions which would entitle the Employer to require the subcontract to be assigned to the Employer under GC Sub-Clause 19.5 (if and when applicable), or in event of termination by the Employer under GC Sub-Clause 42.2.

19.5 If a Subcontractor's obligations extend beyond the expiry date of the relevant Defects Liability Period and the Project Manager, prior to that date, instructs the Contractor to assign the benefits of such obligations to the Employer, then the Contractor shall do so.

20. Design and Engineering

20.1 Specifications and Drawings

20.1.1 The Contractor shall execute the basic and detailed design and the engineering work in compliance with the provisions of the Contract, or where not so specified, in accordance with good engineering practice.

Subject always to GC 10.1, the Contractor shall be responsible for any discrepancies, errors or omissions in the specifications, drawings and other technical documents that it has prepared, whether such specifications, drawings and other documents have been approved by the Project Manager or not.

20.1.2 The Contractor shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designated by or on behalf of the Employer, by giving a notice of such disclaimer to the Project Manager.

20.2 Codes and Standards

Wherever references are made in the Contract to codes and standards in accordance with which the Contract shall be executed, the edition or the revised version of such codes and standards current at the Base Date shall apply unless otherwise specified. During Contract execution, any changes in such codes and standards shall be applied subject to approval by the Employer and shall be treated in accordance with GC Clause 39.

20.3 Approval/Review of Technical Documents by Project Manager

20.3.1 The Contractor shall prepare or cause its Subcontractors to prepare, and furnish to the Project Manager the documents listed in the Appendix to the Contract Agreement titled List of Documents for Approval or Review, for its approval or review as specified and in accordance with the requirements of GC Sub-Clause 18.2 (Program of Performance).

Any part of the Facilities covered by or related to the documents to be approved by the Project Manager

shall be executed only after the Project Manager's approval thereof.

GC Sub-Clauses 20.3.2 through 20.3.7 shall apply to those documents requiring the Project Manager's approval, but not to those furnished to the Project Manager for its review only.

- 20.3.2 Within fourteen (14) days after receipt by the Project Manager of any document requiring the Project Manager's approval in accordance with GC Sub-Clause 20.3.1, the Project Manager shall either return one copy thereof to the Contractor with its approval endorsed thereon or shall notify the Contractor in writing of its disapproval thereof and the reasons therefor and the modifications that the Project Manager proposes.

If the Project Manager fails to take such action within the said fourteen (14) days, then the said document shall be deemed to have been approved by the Project Manager.

- 20.3.3 The Project Manager shall not disapprove any document, except on the grounds that the document does not comply with the Contract or that it is contrary to good engineering practice.

- 20.3.4 If the Project Manager disapproves the document, the Contractor shall modify the document and resubmit it for the Project Manager's approval in accordance with GC Sub-Clause 20.3.2. If the Project Manager approves the document subject to modification(s), the Contractor shall make the required modification(s), whereupon the document shall be deemed to have been approved.

- 20.3.5 If any dispute or difference occurs between the Employer and the Contractor in connection with or arising out of the disapproval by the Project Manager of any document and/or any modification(s) thereto that cannot be settled between the Parties within a reasonable period, then such dispute or difference may be referred to a Dispute Board for determination in accordance with GC Sub-Clause 45.3 hereof. If such dispute or difference is referred to a Dispute Board, the Project Manager shall give instructions as to whether and if so, how, performance of the

Contract is to proceed. The Contractor shall proceed with the Contract in accordance with the Project Manager's instructions, provided that if the Dispute Board upholds the Contractor's view on the dispute and if the Employer has not given notice under GC Sub-Clause 45.3 hereof, then the Contractor shall be reimbursed by the Employer for any additional costs incurred by reason of such instructions and shall be relieved of such responsibility or liability in connection with the dispute and the execution of the instructions as the Dispute Board shall decide, and the Time for Completion shall be extended accordingly.

20.3.6 The Project Manager's approval, with or without modification of the document furnished by the Contractor, shall not relieve the Contractor of any responsibility or liability imposed upon it by any provisions of the Contract except to the extent that any subsequent failure results from modifications required by the Project Manager.

20.3.7 The Contractor shall not depart from any approved document unless the Contractor has first submitted to the Project Manager an amended document and obtained the Project Manager's approval thereof, pursuant to the provisions of this GC Sub-Clause 20.3.

If the Project Manager requests any change in any already approved document and/or in any document based thereon, the provisions of GC Clause 39 shall apply to such request.

21. Procurement 21.1 Plant

Subject to GC Sub-Clause 14.2, the Contractor shall procure and transport all Plant in an expeditious and orderly manner to the Site.

21.2 Employer-Supplied Plant

If the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer, provides that the Employer shall furnish any specific items to the Contractor, the following provisions shall apply:

21.2.1 The Employer shall, at its own risk and expense,

transport each item to the place on or near the Site as agreed upon by the Parties and make such item available to the Contractor at the time specified in the program furnished by the Contractor, pursuant to GC Sub-Clause 18.2, unless otherwise mutually agreed.

21.2.2 Upon receipt of such item, the Contractor shall inspect the same visually and notify the Project Manager of any detected shortage, defect or default. The Employer shall immediately remedy any shortage, defect or default, or the Contractor shall, if practicable and possible, at the request of the Employer, remedy such shortage, defect or default at the Employer's cost and expense. After inspection, such item shall fall under the care, custody and control of the Contractor. The provision of this GC Sub-Clause 21.2.2 shall apply to any item supplied to remedy any such shortage or default or to substitute for any defective item, or shall apply to defective items that have been repaired.

21.2.3 The foregoing responsibilities of the Contractor and its obligations of care, custody and control shall not relieve the Employer of liability for any undetected shortage, defect or default, nor place the Contractor under any liability for any such shortage, defect or default whether under GC Clause 27 or under any other provision of Contract.

21.3 Transportation

21.3.1 The Contractor shall at its own risk and expense transport all the materials and the Contractor's Equipment to the Site.

21.3.2 Unless otherwise provided in the Contract, the Contractor shall be entitled to select any safe mode of transport operated by any person to carry the materials and the Contractor's Equipment.

21.3.3 Upon dispatch of each shipment of materials and the Contractor's Equipment, the Contractor shall notify the Employer by facsimile or email, of the description of the materials and of the Contractor's Equipment, the point and means of dispatch, and the estimated time and point of arrival in the country where the Site is located, if applicable, and at the Site. The Contractor shall furnish the Employer with

relevant shipping documents to be agreed upon between the Parties.

- 21.3.4 The Contractor shall be responsible for obtaining, if necessary, approvals from the authorities for transportation of the materials and the Contractor's Equipment to the Site. The Employer shall use its best endeavors in a timely and expeditious manner to assist the Contractor in obtaining such approvals, if requested by the Contractor. The Contractor shall indemnify and hold harmless the Employer from and against any claim for damage to roads, bridges or any other traffic facilities that may be caused by the transport of the materials and the Contractor's Equipment to the Site.

21.4 Customs Clearance

The Contractor shall, at its own expense, handle all imported materials and Contractor's Equipment at the point(s) of import and shall handle any formalities for customs clearance, subject to the Employer's obligations under GC Sub-Clause 14.2, provided that if applicable laws or regulations require any application or act to be made by or in the name of the Employer, the Employer shall take all necessary steps to comply with such laws or regulations. In the event of delays in customs clearance that are not the fault of the Contractor, the Contractor shall be entitled to an extension in the Time for Completion, pursuant to GC Clause 40.

22. Installation

22.1 Setting Out/Supervision

- 22.1.1 Bench Mark: The Contractor shall be responsible for the true and proper setting-out of the Facilities in relation to bench marks, reference marks and lines provided to it in writing by or on behalf of the Employer.

If, at any time during the progress of installation of the Facilities, any error shall appear in the position, level or alignment of the Facilities, the Contractor shall forthwith notify the Project Manager of such error and, at its own expense, immediately rectify such error to the reasonable satisfaction of the Project Manager. If such error is based on incorrect data provided in writing by or on behalf of the Employer, the expense of rectifying the same shall be borne by

the Employer.

22.1.2 Contractor's Supervision: The Contractor shall give or provide all necessary superintendence during the installation of the Facilities, and the Construction Manager or its deputy shall be constantly on the Site to provide full-time superintendence of the installation. The Contractor shall provide and employ only technical personnel who are skilled and experienced in their respective callings and supervisory staff who are competent to adequately supervise the work at hand.

22.2 Labor

22.2.1 Engagement of Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall make arrangements for the engagement of all staff and labor, local or otherwise, and for their payment, housing, feeding and transport.

The Contractor shall provide and employ on the Site in the installation of the Facilities such skilled, semi-skilled and unskilled labor as is necessary for the proper and timely execution of the Contract. The Contractor is encouraged to use local labor that has the necessary skills.

The Contractor shall be responsible for obtaining all necessary permit(s) and/or visa(s) from the appropriate authorities for the entry of all labor and personnel to be employed on the Site into the country where the Site is located. The Employer will, if requested by the Contractor, use his best endeavors in a timely and expeditious manner to assist the Contractor in obtaining any local, state, national or government permission required for bringing in the Contractor's Personnel.

The Contractor shall at its own expense provide the means of repatriation to all of its and its Subcontractor's personnel employed on the Contract at the Site to the place where they were recruited or to their domicile. It shall also provide suitable temporary maintenance of all such persons from the cessation of their employment on the Contract to the date programmed for their departure. In the event

that the Contractor defaults in providing such means of transportation and temporary maintenance, the Employer may provide the same to such personnel and recover the cost of doing so from the Contractor.

22.2.2 Persons in the Service of Employer

The Contractor shall not recruit, or attempt to recruit, staff and labor from amongst the Employer's Personnel.

22.2.3 Labor Laws

The Contractor shall comply with all the relevant labor Laws applicable to the Contractor's Personnel, including Laws relating to their employment, health, safety, welfare, immigration and emigration, and shall allow them all their legal rights.

The Contractor shall at all times during the progress of the Contract use its best endeavors to prevent any unlawful, riotous or disorderly conduct or behavior by or amongst its employees and the labor of its Subcontractors.

The Contractor shall, in all dealings with its labor and the labor of its Subcontractors currently employed on or connected with the Contract, pay due regard to all recognized festivals, official holidays, religious or other customs and all local laws and regulations pertaining to the employment of labor.

22.2.4 Rates of Wages and Conditions of Labor

The Contractor shall pay rates of wages, and observe conditions of labor, which are not lower than those established for the trade or industry where the work is carried out. If no established rates or conditions are applicable, the Contractor shall pay rates of wages and observe conditions which are not lower than the general level of wages and conditions observed locally by employers whose trade or industry is similar to that of the Contractor.

The Contractor shall inform the Contractor's Personnel about their liability to pay personal income taxes in the Country in respect of such of their salaries, wages and allowances as are chargeable under the Laws for the time being in force, and the

Contractor shall perform such duties in regard to such deductions thereof as may be imposed on him by such Laws.

22.2.5 Working Hours

No work shall be carried out on the Site on locally recognized days of rest, or outside the normal working hours **stated in the PC**, unless:

- (a) otherwise stated in the Contract;
- (b) the Project Manager gives consent; or
- (c) the work is unavoidable, or necessary for the protection of life or property or for the safety of the Facilities, in which case the Contractor shall immediately advise the Project Manager.

If and when the Contractor considers it necessary to carry out work at night or on public holidays so as to meet the Time for Completion and requests the Project Manager's consent thereto, the Project Manager shall not unreasonably withhold such consent.

This Sub-Clause shall not apply to any work which is customarily carried out by rotary or double-shifts.

22.2.6 Facilities for Staff and Labor

Except as otherwise stated in the Specification, the Contractor shall provide and maintain all necessary accommodation and welfare facilities for the Contractor's Personnel. The Contractor shall also provide facilities for the Employer's Personnel as stated in the Specification.

The Contractor shall not permit any of the Contractor's Personnel to maintain any temporary or permanent living quarters within the structures forming part of the Plant.

22.2.7 Health and Safety

The Contractor shall at all times take all reasonable precautions to maintain the health and safety of the Contractor's Personnel. In collaboration with local health authorities, the Contractor shall ensure that medical staff, first aid facilities, sick bay and ambulance service are available at all times at the Site

and at any accommodation for Contractor's and Employer's Personnel, and that suitable arrangements are made for all necessary welfare and hygiene requirements and for the prevention of epidemics.

The Contractor shall appoint an accident prevention officer at the Site, responsible for maintaining safety and protection against accidents. This person shall be qualified for this responsibility, and shall have the authority to issue instructions and take protective measures to prevent accidents. Throughout the performance of the Contract, the Contractor shall provide whatever is required by this person to exercise this responsibility and authority.

The Contractor shall send to the Project Manager, details of any accident as soon as practicable after its occurrence. The Contractor shall maintain records and make reports concerning health, safety and welfare of persons, and damage to property, as the Project Manager may reasonably require.

The Contractor shall throughout the Contract (including the Defects Liability Period): (i) conduct Information, Education and Consultation Communication (IEC) campaigns, at least every other month, addressed to all the Site staff and labor (including all the Contractor's employees, all Subcontractors and Employer's and Project Manager's employees, and all truck drivers and crew making deliveries to Site for construction activities) and to the immediate local communities, concerning the risks, dangers and impact, and appropriate avoidance behavior with respect to Sexually Transmitted Diseases (STD)—or Sexually Transmitted Infections (STI) in general and HIV/AIDS in particular; (ii) provide male or female condoms for all Site staff and labor as appropriate; and (iii) provide for STI and HIV/AIDS screening, diagnosis, counseling and referral to a dedicated national STI and HIV/AIDS program, (unless otherwise agreed) of all Site staff and labor.

The Contractor shall include in the program to be submitted for the execution of the Facilities under GC Sub-Clause 18.2 an alleviation program for Site staff and labor and their families in respect of STI and STD, including HIV/AIDS. The STI, STD and HIV/AIDS

alleviation program shall indicate when, how and at what cost the Contractor plans to satisfy the requirements of this GC Sub-Clause and the related specification. For each component, the program shall detail the resources to be provided or utilized and any related subcontracting proposed. The program shall also include provision of a detailed cost estimate with supporting documentation. Payment to the Contractor for preparation and implementation of this program shall not exceed the Provisional Sum dedicated for this purpose.

22.2.8 Funeral Arrangements

In the event of the death of any of the Contractor's Personnel or accompanying members of their families, the Contractor shall be responsible for making the appropriate arrangements for their return or burial, unless otherwise **specified in the PC**.

22.2.9 Records of Contractor's Personnel

The Contractor shall keep accurate records of the Contractor's Personnel, including the number of each class of Contractor's Personnel on the Site and the names, ages, genders, hours worked and wages paid to all workers. These records shall be summarized on a monthly basis in a form approved by the Project Manager and shall be available for inspection by the Project Manager until the Contractor has completed all work.

22.2.10 Supply of Foodstuffs

The Contractor shall arrange for the provision of a sufficient supply of suitable food as may be stated in the Specification at reasonable prices for the Contractor's Personnel for the purposes of or in connection with the Contract.

22.2.11 Supply of Water

The Contractor shall, having regard to local conditions, provide on the Site an adequate supply of drinking and other water for the use of the Contractor's Personnel.

22.2.12 Measures against Insect and Pest Nuisance

The Contractor shall at all times take the necessary

precautions to protect the Contractor's Personnel employed on the Site from insect and pest nuisance, and to reduce their danger to health. The Contractor shall comply with all the regulations of the local health authorities, including use of appropriate insecticide.

22.2.13 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Laws of the Country, import, sell, give barter or otherwise dispose of any alcoholic liquor or drugs, or permit or allow importation, sale, gift barter or disposal by Contractor's Personnel.

22.2.14 Arms and Ammunition

The Contractor shall not give, barter, or otherwise dispose of, to any person, any arms or ammunition of any kind, or allow Contractor's Personnel to do so.

22.2.15 Prohibition of All Forms of Forced or Compulsory Labor

The Contractor shall not employ "forced or compulsory labor" in any form. "Forced or compulsory labor" consists of all work or service, not voluntarily performed, that is extracted from an individual under threat of force or penalty.

22.2.16 Prohibition of Harmful Child Labor

The Contractor shall not employ any child to perform any work that is economically exploitative, or is likely to be hazardous to, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development.

22.3 Contractor's Equipment

22.3.1 All Contractor's Equipment brought by the Contractor onto the Site shall be deemed to be intended to be used exclusively for the execution of the Contract. The Contractor shall not remove the same from the Site without the Project Manager's consent that such Contractor's Equipment is no longer required for the execution of the Contract.

22.3.2 Unless otherwise specified in the Contract, upon

completion of the Facilities, the Contractor shall remove from the Site all Equipment brought by the Contractor onto the Site and any surplus materials remaining thereon.

- 22.3.3 The Employer will, if requested, use its best endeavors to assist the Contractor in obtaining any local, state or national government permission required by the Contractor for the export of the Contractor's Equipment imported by the Contractor for use in the execution of the Contract that is no longer required for the execution of the Contract.

22.4 Site Regulations and Safety

The Employer and the Contractor shall establish Site regulations setting out the rules to be observed in the execution of the Contract at the Site and shall comply therewith. The Contractor shall prepare and submit to the Employer, with a copy to the Project Manager, proposed Site regulations for the Employer's approval, which approval shall not be unreasonably withheld.

Such Site regulations shall include, but shall not be limited to, rules in respect of security, safety of the Facilities, gate control, sanitation, medical care, and fire prevention.

22.5 Opportunities for Other Contractors

- 22.5.1 The Contractor shall, upon written request from the Employer or the Project Manager, give all reasonable opportunities for carrying out the work to any other contractors employed by the Employer on or near the Site.

- 22.5.2 If the Contractor, upon written request from the Employer or the Project Manager, makes available to other contractors any roads or ways for the maintenance of which the Contractor is responsible, permits the use by such other contractors of the Contractor's Equipment, or provides any other service of whatsoever nature for such other contractors, the Employer shall fully compensate the Contractor for any loss or damage caused or occasioned by such other contractors in respect of any such use or service, and shall pay to the Contractor reasonable remuneration for the use of such equipment or the provision of such services.

22.5.3 The Contractor shall also so arrange to perform its work as to minimize, to the extent possible, interference with the work of other contractors. The Project Manager shall determine the resolution of any difference or conflict that may arise between the Contractor and other contractors and the workers of the Employer in regard to their work.

22.5.4 The Contractor shall notify the Project Manager promptly of any defects in the other contractors' work that come to its notice, and that could affect the Contractor's work. The Project Manager shall determine the corrective measures, if any, required to rectify the situation after inspection of the Facilities. Decisions made by the Project Manager shall be binding on the Contractor.

22.6 Emergency Work

If, by reason of an emergency arising in connection with and during the execution of the Contract, any protective or remedial work is necessary as a matter of urgency to prevent damage to the Facilities, the Contractor shall immediately carry out such work.

If the Contractor is unable or unwilling to do such work immediately, the Employer may do or cause such work to be done as the Employer may determine is necessary in order to prevent damage to the Facilities. In such event the Employer shall, as soon as practicable after the occurrence of any such emergency, notify the Contractor in writing of such emergency, the work done and the reasons therefor. If the work done or caused to be done by the Employer is work that the Contractor was liable to do at its own expense under the Contract, the reasonable costs incurred by the Employer in connection therewith shall be paid by the Contractor to the Employer. Otherwise, the cost of such remedial work shall be borne by the Employer.

22.7 Site Clearance

22.7.1 Site Clearance in Course of Performance: In the course of carrying out the Contract, the Contractor shall keep the Site reasonably free from all unnecessary obstruction, store or remove any surplus materials, clear away any wreckage, rubbish or temporary works from the Site, and remove any Contractor's Equipment no longer required for

execution of the Contract.

22.7.2 Clearance of Site after Completion: After Completion of all parts of the Facilities, the Contractor shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site and Facilities in a clean and safe condition.

22.8 Watching and Lighting

The Contractor shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper execution and the protection of the Facilities, or for the safety of the owners and occupiers of adjacent property and for the safety of the public.

23. Test and Inspection

23.1 The Contractor shall at its own expense carry out at the place of manufacture and/or on the Site all such tests and/or inspections of the Plant and any part of the Facilities as are specified in the Contract.

23.2 The Employer and the Project Manager or their designated representatives shall be entitled to attend the aforesaid test and/or inspection, provided that the Employer shall bear all costs and expenses incurred in connection with such attendance including, but not limited to, all traveling and board and lodging expenses.

23.3 Whenever the Contractor is ready to carry out any such test and/or inspection, the Contractor shall give a reasonable advance notice of such test and/or inspection and of the place and time thereof to the Project Manager. The Contractor shall obtain from any relevant third Party or manufacturer any necessary permission or consent to enable the Employer and the Project Manager or their designated representatives to attend the test and/or inspection.

23.4 The Contractor shall provide the Project Manager with a certified report of the results of any such test and/or inspection.

If the Employer or Project Manager or their designated representatives fails to attend the test and/or inspection, or if it is agreed between the Parties that such persons shall not do so, then the Contractor may proceed with the test and/or inspection in the absence of such persons, and may provide the Project Manager with a certified report of the results thereof.

- 23.5 The Project Manager may require the Contractor to carry out any test and/or inspection not required by the Contract, provided that the Contractor's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impede the progress of work on the Facilities and/or the Contractor's performance of its other obligations under the Contract, due allowance will be made in respect of the Time for Completion and the other obligations so affected.
- 23.6 If any Plant or any part of the Facilities fails to pass any test and/or inspection, the Contractor shall either rectify or replace such Plant or part of the Facilities and shall repeat the test and/or inspection upon giving a notice under GC Sub-Clause 23.3.
- 23.7 If any dispute or difference of opinion shall arise between the Parties in connection with or arising out of the test and/or inspection of the Plant or part of the Facilities that cannot be settled between the Parties within a reasonable period of time, it may be referred to a Dispute Board for determination in accordance with GC Sub-Clause 45.3.
- 23.8 The Contractor shall afford the Employer and the Project Manager, at the Employer's expense, access at any reasonable time to any place where the Plant are being manufactured or the Facilities are being installed, in order to inspect the progress and the manner of manufacture or installation, provided that the Project Manager shall give the Contractor a reasonable prior notice.
- 23.9 The Contractor agrees that neither the execution of a test and/or inspection of Plant or any part of the Facilities, nor the attendance by the Employer or the Project Manager, nor the issue of any test certificate pursuant to GC Sub-Clause 23.4, shall release the Contractor from any other responsibilities under the Contract.
- 23.10 No part of the Facilities or foundations shall be covered up on the Site without the Contractor carrying out any test and/or inspection required under the Contract. The Contractor shall give a reasonable notice to the Project Manager whenever any such parts of the Facilities or foundations are ready or about to be ready for test and/or inspection; such test and/or inspection and notice thereof shall be subject to the requirements of the Contract.

- 23.11 The Contractor shall uncover any part of the Facilities or foundations, or shall make openings in or through the same as the Project Manager may from time to time require at the Site, and shall reinstate and make good such part or parts.

If any parts of the Facilities or foundations have been covered up at the Site after compliance with the requirement of GC Sub-Clause 23.10 and are found to be executed in accordance with the Contract, the expenses of uncovering, making openings in or through, reinstating, and making good the same shall be borne by the Employer, and the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been delayed or impeded in the performance of any of its obligations under the Contract.

24. Completion of the Facilities

- 24.1 As soon as the Facilities or any part thereof has, in the opinion of the Contractor, been completed operationally and structurally and put in a tight and clean condition as specified in the Employer's Requirements, excluding minor items not materially affecting the operation or safety of the Facilities, the Contractor shall so notify the Employer in writing.

- 24.2 Within seven (7) days after receipt of the notice from the Contractor under GC Sub-Clause 24.1, the Employer shall supply the operating and maintenance personnel specified in the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer for Pre-commissioning of the Facilities or any part thereof.

Pursuant to the Appendix to the Contract Agreement titled Scope of Works and Supply by the Employer, the Employer shall also provide, within the said seven (7) day period, the raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters required for Pre-commissioning of the Facilities or any part thereof.

- 24.3 As soon as reasonably practicable after the operating and maintenance personnel have been supplied by the Employer and the raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters have been provided by the Employer in accordance with GC Sub-Clause 24.2, the Contractor shall commence Pre-commissioning of the Facilities or the relevant part thereof in preparation for Commissioning, subject to GC Sub-Clause 25.

- 24.4 As soon as all works in respect of Pre-commissioning are completed and, in the opinion of the Contractor, the Facilities or any part thereof is ready for Commissioning, the

Contractor shall so notify the Project Manager in writing.

- 24.5 The Project Manager shall, within fourteen (14) days after receipt of the Contractor's notice under GC Sub-Clause 24.4, either issue a Completion Certificate in the form specified in the Employer's Requirements (Forms and Procedures), stating that the Facilities or that part thereof have reached Completion as of the date of the Contractor's notice under GC Sub-Clause 24.4, or notify the Contractor in writing of any defects and/or deficiencies.

If the Project Manager notifies the Contractor of any defects and/or deficiencies, the Contractor shall then correct such defects and/or deficiencies, and shall repeat the procedure described in GC Sub-Clause 24.4.

If the Project Manager is satisfied that the Facilities or that part thereof have reached Completion, the Project Manager shall, within seven (7) days after receipt of the Contractor's repeated notice, issue a Completion Certificate stating that the Facilities or that part thereof have reached Completion as of the date of the Contractor's repeated notice.

If the Project Manager is not so satisfied, then it shall notify the Contractor in writing of any defects and/or deficiencies within seven (7) days after receipt of the Contractor's repeated notice, and the above procedure shall be repeated.

- 24.6 If the Project Manager fails to issue the Completion Certificate and fails to inform the Contractor of any defects and/or deficiencies within fourteen (14) days after receipt of the Contractor's notice under GC Sub-Clause 24.4 or within seven (7) days after receipt of the Contractor's repeated notice under GC Sub-Clause 24.5, or if the Employer makes use of the Facilities or part thereof, then the Facilities or that part thereof shall be deemed to have reached Completion as of the date of the Contractor's notice or repeated notice, or as of the Employer's use of the Facilities, as the case may be.

- 24.7 As soon as possible after Completion, the Contractor shall complete all outstanding minor items so that the Facilities are fully in accordance with the requirements of the Contract, failing which the Employer will undertake such completion and deduct the costs thereof from any monies owing to the Contractor.

25. Commissioning and Operational Acceptance**25.1 Commissioning**

- 25.1.1 Commissioning of the Facilities or any part thereof shall be commenced by the Contractor immediately after issue of the Completion Certificate by the Project Manager, pursuant to GC Sub-Clause 24.5, or immediately after the date of the deemed Completion, under GC Sub-Clause 24.6.
- 25.1.2 The Employer shall supply the operating and maintenance personnel and all raw materials, utilities, lubricants, chemicals, catalysts, facilities, services and other matters required for Commissioning.
- 25.1.3 In accordance with the requirements of the Contract, the Contractor's and Project Manager's advisory personnel shall attend the Commissioning, including the Guarantee Test, and shall advise and assist the Employer.

25.2 Guarantee Test

- 25.2.1 The Guarantee Test and repeats thereof shall be conducted by the Contractor during Commissioning of the Facilities or the relevant part thereof to ascertain whether the Facilities or the relevant part can attain the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees. The Employer shall promptly provide the Contractor with such information as the Contractor may reasonably require in relation to the conduct and results of the Guarantee Test and any repeats thereof.
- 25.2.2 If for reasons not attributable to the Contractor, the Guarantee Test of the Facilities or the relevant part thereof cannot be successfully completed within the period from the date of Completion specified in the PC or any other period agreed upon by the Employer and the Contractor, the Contractor shall be deemed to have fulfilled its obligations with respect to the Functional Guarantees, and GC Sub-Clauses 28.2 and 28.3 shall not apply.

25.3 Operational Acceptance

- 25.3.1 Subject to GC Sub-Clause 25.4 below, Operational Acceptance shall occur in respect of the Facilities or any part thereof when:

- (a) the Guarantee Test has been successfully completed and the Functional Guarantees are met; or
- (b) the Guarantee Test has not been successfully completed or has not been carried out for reasons not attributable to the Contractor within the period from the date of Completion specified in the PC pursuant to GC Sub-Clause 25.2.2 above or any other period agreed upon by the Employer and the Contractor; or
- (c) the Contractor has paid the liquidated damages specified in GC Sub-Clause 28.3 hereof; and
- (d) any minor items mentioned in GC Sub-Clause 24.7 hereof relevant to the Facilities or that part thereof have been completed.

25.3.2 At any time after any of the events set out in GC Sub-Clause 25.3.1 has occurred, the Contractor may give a notice to the Project Manager requesting the issue of an Operational Acceptance Certificate in the form provided in the Employer's Requirements (Forms and Procedures) in respect of the Facilities or the part thereof specified in such notice as of the date of such notice.

25.3.3 The Project Manager shall, after consultation with the Employer, and within seven (7) days after receipt of the Contractor's notice, issue an Operational Acceptance Certificate.

25.3.4 If within seven (7) days after receipt of the Contractor's notice, the Project Manager fails to issue the Operational Acceptance Certificate or fails to inform the Contractor in writing of the justifiable reasons why the Project Manager has not issued the Operational Acceptance Certificate, the Facilities or the relevant part thereof shall be deemed to have been accepted as of the date of the Contractor's said notice.

25.4 Partial Acceptance

25.4.1 If the Contract specifies that Completion and Commissioning shall be carried out in respect of parts of the Facilities, the provisions relating to Completion and Commissioning including the Guarantee Test shall apply to each such part of the Facilities individually,

and the Operational Acceptance Certificate shall be issued accordingly for each such part of the Facilities.

- 25.4.2 If a part of the Facilities comprises facilities such as buildings, for which no Commissioning or Guarantee Test is required, then the Project Manager shall issue the Operational Acceptance Certificate for such facility when it attains Completion, provided that the Contractor shall thereafter complete any outstanding minor items that are listed in the Operational Acceptance Certificate.

F. Guarantees and Liabilities

26. Completion Time Guarantee

- 26.1 The Contractor guarantees that it shall attain Completion of the Facilities (or a part for which a separate time for completion is specified) within the Time for Completion specified in the PC pursuant to GC Sub-Clause 8.2, or within such extended time to which the Contractor shall be entitled under GC Clause 40 hereof.

- 26.2 If the Contractor fails to attain Completion of the Facilities or any part thereof within the Time for Completion or any extension thereof under GC Clause 40, the Contractor shall pay to the Employer liquidated damages in the amount **specified in the PC** as a percentage rate of the Contract Price or the relevant part thereof. The aggregate amount of such liquidated damages shall in no event exceed the amount **specified as “Maximum” in the PC** as a percentage rate of the Contract Price. Once the “Maximum” is reached, the Employer may consider termination of the Contract, pursuant to GC Sub-Clause 42.2.2.

Such payment shall completely satisfy the Contractor’s obligation to attain Completion of the Facilities or the relevant part thereof within the Time for Completion or any extension thereof under GC Clause 40. The Contractor shall have no further liability whatsoever to the Employer in respect thereof.

However, the payment of liquidated damages shall not in any way relieve the Contractor from any of its obligations to complete the Facilities or from any other obligations and liabilities of the Contractor under the Contract.

Save for liquidated damages payable under this GC Sub-Clause 26.2, the failure by the Contractor to attain any milestone or other act, matter or thing by any date specified in the Appendix to the Contract Agreement titled Time Schedule, and/or other program of work prepared pursuant to GC Sub-Clause 18.2 shall

not render the Contractor liable for any loss or damage thereby suffered by the Employer.

26.3 If the Contractor attains Completion of the Facilities or any part thereof before the Time for Completion or any extension thereof under GC Clause 40, the Employer shall pay to the Contractor a bonus in the amount **specified in the PC**. The aggregate amount of such bonus shall in no event exceed the amount **specified as “Maximum” in the PC**.

**27. Defect
Liability**

27.1 The Contractor warrants that the Facilities or any part thereof shall be free from defects in the design, engineering, materials and workmanship of the Plant supplied and of the work executed.

27.2 The Defect Liability Period in respect of the Facilities (or, where Operational Acceptance of any part of the Facilities occurs, of such part) shall commence upon the date of Operational Acceptance and expire twelve (12) months thereafter.

If during the Defect Liability Period any defect should be found in the design, engineering, materials and workmanship of the Plant supplied or of the work executed by the Contractor, the Contractor shall promptly, in consultation and agreement with the Employer regarding appropriate remedying of the defects, and at its cost, repair, replace or otherwise make good as the Contractor shall determine at its discretion, such defect as well as any damage to the Facilities caused by such defect. The Contractor shall not be responsible for the repair, replacement or making good of any defect or of any damage to the Facilities arising out of or resulting from any of the following causes:

- (a) improper operation or maintenance of the Facilities by the Employer;
- (b) operation of the Facilities outside Specifications provided in the Contract; or
- (c) normal wear and tear.

27.3 The Contractor's obligations under this GC Clause 27 shall not apply to:

- (a) any materials that are supplied by the Employer under GC Sub-Clause 21.2, are normally consumed in operation, or have a normal life shorter than the Defect Liability Period stated herein;
- (b) any designs, Specifications or other data designed,

supplied or specified by or on behalf of the Employer or any matters for which the Contractor has disclaimed responsibility herein; or

- (c) any other materials supplied or any other work executed by or on behalf of the Employer, except for the work executed by the Employer under GC Sub-Clause 27.7.

27.4 The Employer shall give the Contractor a notice stating the nature of any such defect together with all available evidence thereof, promptly following the discovery thereof. The Employer shall afford all reasonable opportunity for the Contractor to inspect any such defect.

27.5 The Employer shall afford the Contractor all necessary access to the Facilities and the Site to enable the Contractor to perform its obligations under this GC Clause 27.

The Contractor may, with the consent of the Employer, remove from the Site any Plant or any part of the Facilities that are defective if the nature of the defect, and/or any damage to the Facilities caused by the defect, is such that repairs cannot be expeditiously carried out at the Site.

27.6 If the repair, replacement or making good is of such a character that it may affect the efficiency of the Facilities or any part thereof, the Employer may give to the Contractor a notice requiring that tests of the defective part of the Facilities shall be made by the Contractor immediately upon completion of such remedial work, whereupon the Contractor shall carry out such tests.

If such part fails the tests, the Contractor shall carry out further repair, replacement or making good, as the case may be, until that part of the Facilities passes such tests. The tests shall be agreed upon by the Employer and the Contractor.

27.7 If the Contractor fails to commence the work necessary to remedy such defect or any damage to the Facilities caused by such defect within a reasonable time (which shall in no event be considered to be less than fourteen (14) days), the Employer may, following notice to the Contractor, proceed to do such work, and the reasonable costs incurred by the Employer in connection therewith shall be paid to the Employer by the Contractor or may be deducted by the Employer from any monies due the Contractor or claimed under the Performance Security.

27.8 If a defect is made good under this GC 27, the Defect Liability

Period for the item which has been made good shall extend for a period of twelve (12) months from such making good. However, in no event shall the Defect Liability Period extend beyond twenty-four (24) months after the date of Operational Acceptance of the Plant or the relevant part thereof.

27.9 Except as provided in GC Clauses 27 and 33, the Contractor shall be under no liability whatsoever and howsoever arising, and whether under the Contract or at law, in respect of defects in the Facilities or any part thereof, the Plant, design or engineering or work executed that appear after Completion of the Facilities or any part thereof, except where such defects are the result of fraud, or criminal or willful action of the Contractor.

28. Functional Guarantees

28.1 The Contractor guarantees that during the Guarantee Test, the Facilities and all parts thereof shall attain the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, subject to and upon the conditions therein specified.

28.2 If, for reasons attributable to the Contractor, the minimum level of the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, are not met either in whole or in part, the Contractor shall at its cost and expense make such changes, modifications and/or additions to the Plant or any part thereof as may be necessary to meet at least the minimum level of such Guarantees. The Contractor shall notify the Employer upon completion of the necessary changes, modifications and/or additions, and shall request the Employer to repeat the Guarantee Test until the minimum level of the Guarantees has been met. If the Contractor eventually fails to meet the minimum level of Functional Guarantees, the Employer may consider termination of the Contract, pursuant to GC Sub-Clause 42.2.2.

28.3 If, for reasons attributable to the Contractor, the Functional Guarantees specified in the Appendix to the Contract Agreement titled Functional Guarantees, are not attained either in whole or in part, but the minimum level of the Functional Guarantees specified in the said Appendix to the Contract Agreement is met, the Contractor shall, at the Contractor's option, either:

- (a) make such changes, modifications and/or additions to the Facilities or any part thereof that are necessary to attain the Functional Guarantees at its cost and expense, and shall request the Employer to repeat the Guarantee Test; or
- (b) pay liquidated damages to the Employer in respect of the

failure to meet the Functional Guarantees in accordance with the provisions in the Appendix to the Contract Agreement titled Functional Guarantees.

28.4 The payment of liquidated damages under GC Sub-Clause 28.3 shall completely satisfy the Contractor's guarantees under GC Sub-Clause 28.3, and the Contractor shall have no further liability whatsoever to the Employer in respect thereof. Upon the payment of such liquidated damages by the Contractor, the Project Manager shall issue the Operational Acceptance Certificate for the Facilities or any part thereof in respect of which the liquidated damages have been so paid.

**29. Patent
Indemnity**

29.1 The Contractor shall, subject to the Employer's compliance with GC Sub-Clause 29.2, indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Employer may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract by reason of: (a) the installation of the Facilities by the Contractor or the use of the Facilities in the country where the Site is located; and (b) the sale of the products produced by the Facilities in any country.

Such indemnity shall not cover any use of the Facilities or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Contract, any infringement resulting from the use of the Facilities or any part thereof, or any products produced thereby in association or combination with any other equipment, plant or materials not supplied by the Contractor, pursuant to the Contract Agreement.

29.2 If any proceedings are brought or any claim is made against the Employer arising out of the matters referred to in GC Sub-Clause 29.1, the Employer shall promptly give the Contractor a notice thereof, and the Contractor may at its own expense and in the Employer's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

If the Contractor fails to notify the Employer within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Employer shall be free to conduct the same on its own behalf. Unless the Contractor has so failed to notify the Employer within the twenty-eight (28) day period, the Employer shall make no admission that may be

prejudicial to the defense of any such proceedings or claim.

The Employer shall, at the Contractor's request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all reasonable expenses incurred in so doing.

29.3 The Employer shall indemnify and hold harmless the Contractor and its employees, officers and Subcontractors from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Contractor may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Contract arising out of or in connection with any design, data, drawing, specification, or other documents or materials provided or designed by or on behalf of the Employer.

30. Limitation of Liability

30.1 Except in cases of criminal negligence or willful misconduct:

- (a) neither Party shall be liable to the other Party, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, which may be suffered by the other Party in connection with the Contract, other than specifically provided as any obligation of the Party in the Contract; and
- (b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed the amount resulting from the application of the multiplier **specified in the PC**, to the Contract Price or, if a multiplier is not so specified, the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment, or to any obligation of the Contractor to indemnify the Employer with respect to patent infringement.

G. Risk Distribution

31. Transfer of Ownership

31.1 Ownership of the Plant (including spare parts) to be imported into the country where the Site is located shall be transferred to the Employer upon loading on to the mode of transport to be used to convey the Plant from the country of origin to that country.

- 31.2 Ownership of the Plant (including spare parts) procured in the country where the Site is located shall be transferred to the Employer when the Plant are brought on to the Site.
- 31.3 Ownership of the Contractor's Equipment used by the Contractor and its Subcontractors in connection with the Contract shall remain with the Contractor or its Subcontractors.
- 31.4 Ownership of any Plant in excess of the requirements for the Facilities shall revert to the Contractor upon Operational Acceptance or at such earlier time when the Employer and the Contractor agree that the Plant in question are no longer required for the Facilities.
- 31.5 Notwithstanding the transfer of ownership of the Plant, the responsibility for care and custody thereof together with the risk of loss or damage thereto shall remain with the Contractor pursuant to GC Clause 32 (Care of Facilities) hereof until Operational Acceptance of the Facilities or the part thereof in which such Plant are incorporated.

32. Care of Facilities

- 32.1 The Contractor shall be responsible for the care and custody of the Facilities or any part thereof until the date of Operational Acceptance of the Facilities pursuant to GC Clause 25 or, where the Contract provides for Operational Acceptance of the Facilities in parts, until the date of Operational Acceptance of the relevant part, and shall make good at its own cost any loss or damage that may occur to the Facilities or the relevant part thereof from any cause whatsoever during such period. The Contractor shall also be responsible for any loss or damage to the Facilities caused by the Contractor or its Subcontractors in the course of any work carried out, pursuant to GC Clause 27. Notwithstanding the foregoing, the Contractor shall not be liable for any loss or damage to the Facilities or that part thereof caused by reason of any of the matters specified or referred to in paragraphs (a), (b) and (c) of GC Sub-Clauses 32.2 and 38.1.
- 32.2 If any loss or damage occurs to the Facilities or any part thereof or to the Contractor's temporary facilities by reason of:
 - (a) insofar as they relate to the country where the Site is located, nuclear reaction, nuclear radiation, radioactive contamination, pressure wave caused by aircraft or other aerial objects, or any other occurrences that an experienced Contractor could not reasonably foresee, or if reasonably foreseeable could not reasonably make provision for or insure against, insofar as such risks are not normally insurable on the insurance market and are mentioned in the general exclusions of the policy of insurance, including War

Risks and Political Risks, taken out under GC Clause 34 hereof; or

- (b) any use or occupation by the Employer or any third Party other than a Subcontractor, authorized by the Employer of any part of the Facilities; or
- (c) any use of or reliance upon any design, data or specification provided or designated by or on behalf of the Employer, or any such matter for which the Contractor has disclaimed responsibility herein,

the Employer shall pay to the Contractor all sums payable in respect of the Facilities executed, notwithstanding that the same be lost, destroyed or damaged, and will pay to the Contractor the replacement value of all temporary facilities and all parts thereof lost, destroyed or damaged. If the Employer requests the Contractor in writing to make good any loss or damage to the Facilities thereby occasioned, the Contractor shall make good the same at the cost of the Employer in accordance with GC Clause 39. If the Employer does not request the Contractor in writing to make good any loss or damage to the Facilities thereby occasioned, the Employer shall either request a change in accordance with GC Clause 39, excluding the performance of that part of the Facilities thereby lost, destroyed or damaged, or, where the loss or damage affects a substantial part of the Facilities, the Employer shall terminate the Contract pursuant to GC Sub-Clause 42.1 hereof.

32.3 The Contractor shall be liable for any loss of or damage to any Contractor's Equipment, or any other property of the Contractor used or intended to be used for purposes of the Facilities, except (i) as mentioned in GC Sub-Clause 32.2 with respect to the Contractor's temporary facilities, and (ii) where such loss or damage arises by reason of any of the matters specified in GC Sub-Clauses 32.2 (b) and (c) and 38.1.

32.4 With respect to any loss or damage caused to the Facilities or any part thereof or to the Contractor's Equipment by reason of any of the matters specified in GC Sub-Clause 38.1, the provisions of GC Sub-Clause 38.3 shall apply.

**33. Loss of or
Damage to
Property;
Accident or
Injury to
Workers;**

33.1 Subject to GC Sub-Clause 33.3, the Contractor shall indemnify and hold harmless the Employer and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, in respect of the death or injury of any person or loss

Indemnification

of or damage to any property other than the Facilities whether accepted or not, arising in connection with the supply and installation of the Facilities and by reason of the negligence of the Contractor or its Subcontractors, or their employees, officers or agents, except any injury, death or property damage caused by the negligence of the Employer, its contractors, employees, officers or agents.

- 33.2 If any proceedings are brought or any claim is made against the Employer that might subject the Contractor to liability under GC Sub-Clause 33.1, the Employer shall promptly give the Contractor a notice thereof and the Contractor may at its own expense and in the Employer's name conduct such proceedings or claim and any negotiations for the settlement of any such proceedings or claim.

If the Contractor fails to notify the Employer within twenty-eight (28) days after receipt of such notice that it intends to conduct any such proceedings or claim, then the Employer shall be free to conduct the same on its own behalf. Unless the Contractor has so failed to notify the Employer within the twenty-eight (28) day period, the Employer shall make no admission that may be prejudicial to the defense of any such proceedings or claim.

The Employer shall, at the Contractor's request, afford all available assistance to the Contractor in conducting such proceedings or claim, and shall be reimbursed by the Contractor for all reasonable expenses incurred in so doing.

- 33.3 The Employer shall indemnify and hold harmless the Contractor and its employees, officers and Subcontractors from any liability for loss of or damage to property of the Employer, other than the Facilities not yet taken over, that is caused by fire, explosion or any other perils, in excess of the amount recoverable from insurances procured under GC Clause 34.

- 33.4 The Party entitled to the benefit of an indemnity under this GC Clause 33 shall take all reasonable measures to mitigate any loss or damage which has occurred. If the Party fails to take such measures, the other Party's liabilities shall be correspondingly reduced.

34. Insurance

- 34.1 To the extent specified in the Appendix to the Contract Agreement titled Insurance Requirements, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified in the said Appendix.

The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, who should not unreasonably withhold such approval.

(a) Cargo Insurance During Transport

Covering loss or damage occurring while in transit from the Contractor's or Subcontractor's works or stores until arrival at the Site, to the Plant (including spare parts therefor) and to the Contractor's Equipment.

(b) Installation All Risks Insurance

Covering physical loss or damage to the Facilities at the Site, occurring prior to Operational Acceptance of the Facilities, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the Defect Liability Period while the Contractor is on the Site for the purpose of performing its obligations during the Defect Liability Period.

(c) Third Party Liability Insurance

Covering bodily injury or death suffered by third Parties including the Employer's Personnel, and loss of or damage to property occurring in connection with the supply and installation of the Facilities.

(d) Automobile Liability Insurance

Covering use of all vehicles used by the Contractor or its Subcontractors, whether or not owned by them, in connection with the execution of the Contract.

(e) Workers' Compensation

In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed.

(f) Employer's Liability

In accordance with the statutory requirements applicable in any country where the Contract or any part thereof is executed.

(g) Other Insurances

Such other insurances as may be specifically agreed upon by the Parties hereto as listed in the Appendix to the

Contract Agreement titled Insurance Requirements.

- 34.2 The Employer shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to GC Sub-Clause 34.1, except for the Workers' Compensation and Employer's Liability Insurances, and the Contractor's Subcontractors shall be named as co-insureds under all insurance policies taken out by the Contractor pursuant to GC Sub-Clause 34.1 except for the Cargo Insurance During Transport, Workers' Compensation and Employer's Liability Insurances. All insurer's rights of subrogation against such co-insureds for losses or claims arising out of the performance of the Contract shall be waived under such policies.
- 34.3 The Contractor shall, in accordance with the provisions of the Appendix to the Contract Agreement titled Insurance Requirements, deliver to the Employer certificates of insurance or copies of the insurance policies as evidence that the required policies are in full force and effect. The certificates shall provide that no less than twenty-one (21) days' notice shall be given to the Employer by insurers prior to cancellation or material modification of a policy.
- 34.4 The Contractor shall ensure that, where applicable, its Subcontractor(s) shall take out and maintain in effect adequate insurance policies for their personnel and vehicles and for work executed by them under the Contract, unless such Subcontractors are covered by the policies taken out by the Contractor.
- 34.5 The Employer shall at its expense take out and maintain in effect during the performance of the Contract those insurances specified in the Appendix to the Contract Agreement titled Insurance Requirements, in the sums and with the deductibles and other conditions specified in the said Appendix. The Contractor and the Contractor's Subcontractors shall be named as co-insureds under all such policies. All insurers' rights of subrogation against such co-insureds for losses or claims arising out of the performance of the Contract shall be waived under such policies. The Employer shall deliver to the Contractor satisfactory evidence that the required insurances are in full force and effect. The policies shall provide that not less than twenty-one (21) days' notice shall be given to the Contractor by all insurers prior to any cancellation or material modification of the policies. If so requested by the Contractor, the Employer shall provide copies of the policies taken out by the Employer under this GC Sub-Clause 34.5.
- 34.6 If the Contractor fails to take out and/or maintain in effect the

insurances referred to in GC Sub-Clause 34.1, the Employer may take out and maintain in effect any such insurances and may from time to time deduct from any amount due the Contractor under the Contract any premium that the Employer shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Contractor. If the Employer fails to take out and/or maintain in effect the insurances referred to in GC 34.5, the Contractor may take out and maintain in effect any such insurances and may from time to time deduct from any amount due the Employer under the Contract any premium that the Contractor shall have paid to the insurer, or may otherwise recover such amount as a debt due from the Employer. If the Contractor fails to or is unable to take out and maintain in effect any such insurances, the Contractor shall nevertheless have no liability or responsibility towards the Employer, and the Contractor shall have full recourse against the Employer for any and all liabilities of the Employer herein.

34.7 Unless otherwise provided in the Contract, the Contractor shall prepare and conduct all and any claims made under the policies effected by it pursuant to this GC Clause 34, and all monies payable by any insurers shall be paid to the Contractor. The Employer shall give to the Contractor all such reasonable assistance as may be required by the Contractor. With respect to insurance claims in which the Employer's interest is involved, the Contractor shall not give any release or make any compromise with the insurer without the prior written consent of the Employer. With respect to insurance claims in which the Contractor's interest is involved, the Employer shall not give any release or make any compromise with the insurer without the prior written consent of the Contractor.

**35. Unforeseen
Conditions**

35.1 If, during the execution of the Contract, the Contractor shall encounter on the Site any physical conditions other than climatic conditions, or artificial obstructions that could not have been reasonably foreseen prior to the date of the Contract Agreement by an experienced Contractor on the basis of reasonable examination of the data relating to the Facilities including any data as to boring tests, provided by the Employer, and on the basis of information that it could have obtained from a visual inspection of the Site if access thereto was available, or other data readily available to it relating to the Facilities, and if the Contractor determines that it will in consequence of such conditions or obstructions incur additional cost and expense or require additional time to perform its obligations under the Contract that would not have been required if such physical conditions or artificial obstructions had not been encountered,

the Contractor shall promptly, and before performing additional work or using additional Plant or Contractor's Equipment, notify the Project Manager in writing of:

- (a) the physical conditions or artificial obstructions on the Site that could not have been reasonably foreseen;
- (b) The additional work and/or Plant and/or Contractor's Equipment required, including the steps which the Contractor will or proposes to take to overcome such conditions or obstructions;
- (c) the extent of the anticipated delay; and
- (d) the additional cost and expense that the Contractor is likely to incur.

On receiving any notice from the Contractor under this GC Sub-Clause 35.1, the Project Manager shall promptly consult with the Employer and Contractor to decide upon the actions to be taken to overcome the physical conditions or artificial obstructions encountered. Following such consultations, the Project Manager shall instruct the Contractor, with a copy to the Employer, of the actions to be taken.

- 35.2 Any reasonable additional cost and expense incurred by the Contractor in following the instructions from the Project Manager to overcome such physical conditions or artificial obstructions referred to in GC Sub-Clause 35.1 shall be paid by the Employer to the Contractor as an addition to the Contract Price.

If the Contractor is delayed or impeded in the performance of the Contract because of any such physical conditions or artificial obstructions referred to in GC Sub-Clause 35.1, the Time for Completion shall be extended in accordance with GC Clause 40.

**36. Change in
Laws and
Regulations**

- 36.1 If, after the date twenty-eight (28) days prior to the date of Bid submission, in the country where the Site is located, any law, regulation, ordinance, order or by-law having the force of law is enacted, promulgated, abrogated or changed which shall be deemed to include any change in interpretation or application by the competent authorities, that subsequently affects the costs and expenses of the Contractor and/or the Time for Completion, the Contract Price shall be correspondingly increased or decreased, and/or the Time for Completion shall be reasonably adjusted to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract.

Notwithstanding the foregoing, such additional or reduced costs shall not be separately paid or credited if the same has already been accounted for in the price adjustment provisions where applicable, in accordance with the PC pursuant to GC Sub-Clause 11.2.

**37. Force
Majeure**

37.1 “Force Majeure” shall mean any event beyond the reasonable control of the Employer or of the Contractor, as the case may be, and which is unavoidable notwithstanding the reasonable care of the Party affected, and shall include, without limitation, the following:

- (a) war, hostilities or warlike operations whether a state of war be declared or not, invasion, act of foreign enemy and civil war;
- (b) rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts;
- (c) confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de jure or de facto authority or ruler or any other act or failure to act of any local state or national government authority;
- (d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, quarantine and plague;
- (e) earthquake, landslide, volcanic activity, fire, flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves or other natural or physical disaster; and
- (f) shortage of labor, materials or utilities where caused by circumstances that are themselves Force Majeure.

37.2 If either Party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within fourteen (14) days after the Party became or should have become aware of the occurrence of such event.

37.3 The Party who has given such notice shall be excused from the performance or punctual performance of its obligations under

the Contract for so long as the relevant event of Force Majeure continues and to the extent that such Party's performance is prevented, hindered or delayed. The Time for Completion shall be extended in accordance with GC Clause 40.

37.4 The Party or Parties affected by the event of Force Majeure shall use reasonable efforts to mitigate the effect thereof upon its or their performance of the Contract and to fulfill its or their obligations under the Contract, but without prejudice to either Party's right to terminate the Contract under GC Sub-Clauses 37.6 and 38.5.

37.5 No delay or nonperformance by either Party hereto caused by the occurrence of any event of Force Majeure shall:

- (a) constitute a default or breach of the Contract, or
- (b) give rise to any claim for damages or additional cost or expense occasioned thereby, subject to GC Sub-Clauses 32.2, 38.3 and 38.4.

37.6 If the performance of the Contract is substantially prevented, hindered or delayed for a single period of more than sixty (60) days or an aggregate period of more than one hundred and twenty (120) days on account of one or more events of Force Majeure during the currency of the Contract, the Parties will attempt to develop a mutually satisfactory solution, failing which either Party may terminate the Contract by giving a notice to the other, but without prejudice to either Party's right to terminate the Contract under GC Sub-Clause 38.5.

37.7 In the event of termination pursuant to GC Sub-Clause 37.6, the rights and obligations of the Employer and the Contractor shall be as specified in GC Sub-Clauses 42.1.2 and 42.1.3.

37.8 Notwithstanding GC Sub-Clause 37.5, Force Majeure shall not apply to any obligation of the Employer to make payments to the Contractor herein.

38. War Risks

38.1 "War Risks" shall mean any event specified in paragraphs (a) and (b) of GC Sub-Clause 37.1 and any explosion or impact of any mine, bomb, shell, grenade or other projectile, missile, munitions or explosive of war, occurring or existing in or near the country (or countries) where the Site is located.

38.2 Notwithstanding anything contained in the Contract, the Contractor shall have no liability whatsoever for or with respect to:

- (a) destruction of or damage to Facilities, Plant, or any part

thereof;

- (b) destruction of or damage to property of the Employer or any third Party; or
- (c) injury or loss of life,

if such destruction, damage, injury or loss of life is caused by any War Risks, and the Employer shall indemnify and hold the Contractor harmless from and against any and all claims, liabilities, actions, lawsuits, damages, costs, charges or expenses arising in consequence of or in connection with the same.

38.3 If the Facilities or any Plant or Contractor's Equipment or any other property of the Contractor used or intended to be used for the purposes of the Facilities shall sustain destruction or damage by reason of any War Risks, the Employer shall pay the Contractor for:

- (a) any part of the Facilities or the Plant so destroyed or damaged to the extent not already paid for by the Employer;
- (b) replacing or making good any Contractor's Equipment or other property of the Contractor so destroyed or damaged;
- (c) replacing or making good any such destruction or damage to the Facilities or the Plant or any part thereof;

and so far as may be required by the Employer, and as may be necessary for completion of the Facilities.

If the Employer does not require the Contractor to replace or make good any such destruction or damage to the Facilities, the Employer shall either request a change in accordance with GC Clause 39, excluding the performance of that part of the Facilities thereby destroyed or damaged or, where the loss, destruction or damage affects a substantial part of the Facilities, shall terminate the Contract, pursuant to GC Sub-Clause 42.1.

If the Employer requires the Contractor to replace or make good on any such destruction or damage to the Facilities, the Time for Completion shall be extended in accordance with GC Clause 40.

38.4 Notwithstanding anything contained in the Contract, the Employer shall pay the Contractor for any increased costs or incidentals to the execution of the Contract that are in any way attributable to, consequent on, resulting from, or in any way connected with any War Risks, provided that the Contractor shall as soon as practicable notify the Employer in writing of any

such increased cost.

- 38.5 If during the performance of the Contract any War Risks shall occur that financially or otherwise materially affect the execution of the Contract by the Contractor, the Contractor shall use its reasonable efforts to execute the Contract with due and proper consideration given to the safety of its and its Subcontractors' personnel engaged in the work on the Facilities, provided, however, that if the execution of the work on the Facilities becomes impossible or is substantially prevented for a single period of more than sixty (60) days or an aggregate period of more than one hundred and twenty (120) days on account of any War Risks, the Parties will attempt to develop a mutually satisfactory solution, failing which either Party may terminate the Contract by giving a notice to the other.
- 38.6 In the event of termination pursuant to GC Sub-Clauses 38.3 or 38.5, the rights and obligations of the Employer and the Contractor shall be specified in GC Sub-Clauses 42.1.2 and 42.1.3.

H. Change in Contract Elements

39. Change in the Facilities

39.1 Introducing a Change

39.1.1 Subject to GC Sub-Clauses 39.2.5 and 39.2.7, the Employer shall have the right to propose, and subsequently require, that the Project Manager order the Contractor from time to time during the performance of the Contract to make any change, modification, addition or deletion to, in or from the Facilities hereinafter called "Change", provided that such Change falls within the general scope of the Facilities and does not constitute unrelated work and that it is technically practicable, taking into account both the state of advancement of the Facilities and the technical compatibility of the Change envisaged with the nature of the Facilities as specified in the Contract.

39.1.2 The Contractor may from time to time during its performance of the Contract propose to the Employer with a copy to the Project Manager, any Change that the Contractor considers necessary or desirable to improve the quality, efficiency or safety of the Facilities or which is necessitated by reason of any act, omission or breach of the Contract by the Employer or its contractors of any tier. The Employer may at its

discretion approve or reject any Change proposed by the Contractor, provided that the Employer shall approve any Change necessitated by reason of any act, omission or breach of the Contract by the Employer or its contractors of any tier or proposed by the Contractor to ensure the safety of the Facilities.

39.1.3 Notwithstanding GC Sub-Clauses 39.1.1 and 39.1.2, no change made necessary because of any default of the Contractor in the performance of its obligations under the Contract shall be deemed to be a Change, and such change shall not result in any adjustment of the Contract Price or the Time for Completion.

39.1.4 The procedure on how to proceed with and execute Changes is specified in GC Sub-Clauses 39.2 and 39.3, and further details and forms are provided in the Employer's Requirements (Forms and Procedures).

39.2 Changes Originating from the Employer

39.2.1 If the Employer proposes a Change pursuant to GC Sub-Clause 39.1.1, it shall send to the Contractor a "Request for Change Proposal," requiring the Contractor to prepare and furnish to the Project Manager as soon as reasonably practicable a "Change Proposal," which shall include the following:

- (a) brief description of the Change;
- (b) effect on the Time for Completion;
- (c) estimated cost of the Change;
- (d) effect on Functional Guarantees (if any);
- (e) effect on the Facilities; and
- (f) effect on any other provisions of the Contract.

39.2.2 Prior to preparing and submitting the "Change Proposal," the Contractor shall submit to the Project Manager an "Estimate for Change Proposal," which shall be an estimate of the cost of preparing and submitting the Change Proposal.

Upon receipt of the Contractor's Estimate for Change Proposal, the Employer shall do one of the following:

- (a) accept the Contractor's estimate with instructions

to the Contractor to proceed with the preparation of the Change Proposal;

- (b) advise the Contractor of any part of its Estimate for Change Proposal that is unacceptable and request the Contractor to review its estimate; or
- (c) advise the Contractor that the Employer does not intend to proceed with the Change.

39.2.3 Upon receipt of the Employer's instruction to proceed under GC Sub-Clause 39.2.2 (a), the Contractor shall, with proper expedition, proceed with the preparation of the Change Proposal, in accordance with GC Sub-Clause 39.2.1.

39.2.4 The pricing of any Change shall, as far as practicable, be calculated in accordance with the rates and prices included in the Contract. If such rates and prices are inequitable, the Parties thereto shall agree on specific rates for the valuation of the Change.

39.2.5 If before or during the preparation of the Change Proposal it becomes apparent that the aggregate effect of compliance therewith and with all other Change Orders that have already become binding upon the Contractor under this GC Clause 39 would be to increase or decrease the Contract Price as originally set forth in Article 2 (Contract Price) of the Contract Agreement by more than fifteen percent (15%), the Contractor may give a written notice of objection thereto prior to furnishing the Change Proposal as aforesaid. If the Employer accepts the Contractor's objection, the Employer shall withdraw the proposed Change and shall notify the Contractor in writing thereof.

The Contractor's failure to so object shall neither affect its right to object to any subsequent requested Changes or Change Orders herein, nor affect its right to take into account, when making such subsequent objection, the percentage increase or decrease in the Contract Price that any Change not objected to by the Contractor represents.

39.2.6 Upon receipt of the Change Proposal, the Employer and the Contractor shall mutually agree upon all matters therein contained. Within fourteen (14) days after such agreement, the Employer shall, if it intends to proceed with the Change, issue the Contractor with a Change

Order

If the Employer is unable to reach a decision within fourteen (14) days, it shall notify the Contractor with details of when the Contractor can expect a decision.

If the Employer decides not to proceed with the Change for whatever reason, it shall, within the said period of fourteen (14) days, notify the Contractor accordingly. Under such circumstances, the Contractor shall be entitled to reimbursement of all costs reasonably incurred by it in the preparation of the Change Proposal, provided that these do not exceed the amount given by the Contractor in its Estimate for Change Proposal submitted in accordance with GC Sub-Clause 39.2.2.

- 39.2.7 If the Employer and the Contractor cannot reach agreement on the price for the Change, an equitable adjustment to the Time for Completion, or any other matters identified in the Change Proposal, the Employer may nevertheless instruct the Contractor to proceed with the Change by issue of a “Pending Agreement Change Order.”

Upon receipt of a Pending Agreement Change Order, the Contractor shall immediately proceed with effecting the Changes covered by such Order. The Parties shall thereafter attempt to reach agreement on the outstanding issues under the Change Proposal.

If the Parties cannot reach agreement within sixty (60) days from the date of issue of the Pending Agreement Change Order, then the matter may be referred to the Dispute Board in accordance with the provisions of GC Sub-Clause 45.3.

39.3 Changes Originating from Contractor

If the Contractor proposes a Change pursuant to GC Sub-Clause 39.1.2, the Contractor shall submit to the Project Manager a written “Application for Change Proposal,” giving reasons for the proposed Change and including the information specified in GC Sub-Clause 39.2.1.

Upon receipt of the Application for Change Proposal, the Parties shall follow the procedures outlined in GC Sub-Clauses 39.2.6 and 39.2.7. However, should the Employer choose not to proceed, the Contractor shall not be entitled to recover the costs

of preparing the Application for Change Proposal.

40. Extension of Time for Completion

40.1 The Time(s) for Completion specified in the PC pursuant to GC Sub-Clause 8.2 shall be extended if the Contractor is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:

- (a) any Change in the Facilities as provided in GC Clause 39;
- (b) any occurrence of Force Majeure as provided in GC Clause 37, unforeseen conditions as provided in GC Clause 35, or other occurrence of any of the matters specified or referred to in paragraphs (a), (b) and (c) of GC Sub-Clause 32.2;
- (c) any suspension order given by the Employer under GC Clause 41 hereof or reduction in the rate of progress pursuant to GC Sub-Clause 41.2;
- (d) any changes in laws and regulations as provided in GC Clause 36;
- (e) any default or breach of the Contract by the Employer, or any activity, act or omission of the Employer, or the Project Manager, or any other contractors employed by the Employer;
- (f) any delay on the part of a Subcontractor, provided such delay is due to a cause for which the Contractor himself would have been entitled to an extension of time under this sub-clause;
- (g) delays attributable to the Employer or caused by customs; or
- (h) any other matter specifically mentioned in the Contract;

by such period as shall be fair and reasonable in all the circumstances and as shall fairly reflect the delay or impediment sustained by the Contractor.

In this respect the Parties hereby expressly agree that it shall be fair and reasonable to extend the Time for Completion irrespective of any delaying factors attributable to the Contractor which operate or operated concurrently with any of the factors mentioned in (a) to (h) of this GC 40.1.

40.2 Except where otherwise specifically provided in the Contract, the Contractor shall submit to the Project Manager a notice of a claim for an extension of the Time for Completion, together with

particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Employer and the Contractor shall agree upon the period of such extension. In the event that the Contractor does not accept the Employer's estimate of a fair and reasonable time extension, the Contractor shall be entitled to refer the matter to a Dispute Board, pursuant to GC Sub-Clause 45.3.

The Contractor shall at all times use its reasonable efforts to minimize any delay in the performance of its obligations under the Contract.

In all cases where the Contractor has given a notice of a claim for an extension of time under this GC Sub-Clause 40.2, the Contractor shall consult with the Project Manager in order to determine the steps (if any) which can be taken to overcome or minimize the actual or anticipated delay. The Contractor shall there after comply with all reasonable instructions which the Project Manager shall give in order to minimize such delay. If compliance with such instructions shall cause the Contractor to incur extra costs and the Contractor is entitled to an extension of time under GC Sub-Clause 40.1, the amount of such extra costs shall be added to the Contract Price.

41. Suspension

41.1 The Employer may request the Project Manager, by notice to the Contractor, to order the Contractor to suspend performance of any or all of its obligations under the Contract. Such notice shall specify the obligation of which performance is to be suspended, the effective date of the suspension and the reasons therefor. The Contractor shall thereupon suspend performance of such obligation, except those obligations necessary for the care or preservation of the Facilities, until ordered in writing to resume such performance by the Project Manager.

If, by virtue of a suspension order given by the Project Manager, other than by reason of the Contractor's default or breach of the Contract, the Contractor's performance of any of its obligations is suspended for an aggregate period of more than ninety (90) days, then at any time thereafter and provided that at that time such performance is still suspended, the Contractor may give a notice to the Project Manager requiring that the Employer shall, within twenty-eight (28) days of receipt of the notice, order the resumption of such performance or request and subsequently order a change in accordance with GC Clause 39, excluding the performance of the suspended obligations from the Contract.

If the Employer fails to do so within such period, the Contractor may, by a further notice to the Project Manager, elect to treat the suspension, where it affects a part only of the Facilities, as a deletion of such part in accordance with GC Clause 39 or, where it affects the whole of the Facilities, as termination of the Contract under GC Sub-Clause 42.1.

41.2 If

- (a) the Employer has failed to pay the Contractor any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause pursuant to the Appendix to the Contract Agreement titled Terms and Procedures of Payment, or commits a substantial breach of the Contract, the Contractor may give a notice to the Employer that requires payment of such sum, with interest thereon as stipulated in GC Sub-Clause 12.3, requires approval of such invoice or supporting documents, or specifies the breach and requires the Employer to remedy the same, as the case may be. If the Employer fails to pay such sum together with such interest, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, or fails to remedy the breach or take steps to remedy the breach within fourteen (14) days after receipt of the Contractor's notice, or
- (b) the Contractor is unable to carry out any of its obligations under the Contract for any reason attributable to the Employer, including but not limited to the Employer's failure to provide possession of or access to the Site or other areas in accordance with GC Sub-Clause 10.2, or failure to obtain any governmental permit necessary for the execution and/or completion of the Facilities,

then the Contractor may by notice to the Employer suspend performance of all or any of its obligations under the Contract, or reduce the rate of progress.

- 41.3 If the Contractor's performance of its obligations is suspended or the rate of progress is reduced pursuant to this GC Clause 41, then the Time for Completion shall be extended in accordance with GC Sub-Clause 40.1, and any and all additional costs or expenses incurred by the Contractor as a result of such suspension or reduction shall be paid by the Employer to the Contractor in addition to the Contract Price, except in the case of suspension order or reduction in the rate of progress by reason of

the Contractor's default or breach of the Contract.

- 41.4 During the period of suspension, the Contractor shall not remove from the Site any Plant, any part of the Facilities or any Contractor's Equipment, without the prior written consent of the Employer.

42. Termination

42.1 Termination for Employer's Convenience

42.1.1 The Employer may at any time terminate the Contract for any reason by giving the Contractor a notice of termination that refers to this GC Sub-Clause 42.1.

42.1.2 Upon receipt of the notice of termination under GC Sub-Clause 42.1.1, the Contractor shall either immediately or upon the date specified in the notice of termination:

- (a) cease all further work, except for such work as the Employer may specify in the notice of termination for the sole purpose of protecting that part of the Facilities already executed, or any work required to leave the Site in a clean and safe condition;
- (b) terminate all subcontracts, except those to be assigned to the Employer pursuant to paragraph (d) (ii) below';
- (c) remove all Contractor's Equipment from the Site, repatriate the Contractor's and its Subcontractors' personnel from the Site, remove from the Site any wreckage, rubbish and debris of any kind, and leave the whole of the Site in a clean and safe condition; and
- (d) subject to the payment specified in GC Sub-Clause 42.1.3,
 - (i) deliver to the Employer the parts of the Facilities executed by the Contractor up to the date of termination;
 - (ii) to the extent legally possible, assign to the Employer all right, title and benefit of the Contractor to the Facilities and to the Plant as of the date of termination, and, as may be required by the Employer, in any subcontracts concluded between the

Contractor and its Subcontractors; and

- (iii) deliver to the Employer all non-proprietary drawings, specifications and other documents prepared by the Contractor or its Subcontractors as at the date of termination in connection with the Facilities.

42.1.3 In the event of termination of the Contract under GC Sub-Clause 42.1.1, the Employer shall pay to the Contractor the following amounts:

- (a) the Contract Price, properly attributable to the parts of the Facilities executed by the Contractor as of the date of termination;
- (b) the costs reasonably incurred by the Contractor in the removal of the Contractor's Equipment from the Site and in the repatriation of the Contractor's and its Subcontractors' personnel;
- (c) any amounts to be paid by the Contractor to its Subcontractors in connection with the termination of any subcontracts, including any cancellation charges;
- (d) costs incurred by the Contractor in protecting the Facilities and leaving the Site in a clean and safe condition pursuant to paragraph (a) of GC Sub-Clause 42.1.2; and
- (e) the cost of satisfying all other obligations, commitments and claims that the Contractor may in good faith have undertaken with third Parties in connection with the Contract and that are not covered by paragraphs (a) through (d) above.

42.2 Termination for Contractor's Default

42.2.1 The Employer, without prejudice to any other rights or remedies it may possess, may terminate the Contract forthwith in the following circumstances by giving a notice of termination and its reasons therefor to the Contractor, referring to this GC Sub-Clause 42.2:

- (a) if the Contractor becomes bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, if the Contractor is a corporation, a resolution is passed or order is made for its winding

up, other than a voluntary liquidation for the purposes of amalgamation or reconstruction, a receiver is appointed over any part of its undertaking or assets, or if the Contractor takes or suffers any other analogous action in consequence of debt;

- (b) if the Contractor assigns or transfers the Contract or any right or interest therein in violation of the provision of GC Clause 43; or
- (c) if the Contractor, in the judgment of the Employer has engaged in corrupt, collusive, coercive, or fraudulent practices, as defined in GC Clause 6, in competing for or in executing the Contract.

42.2.2 If the Contractor:

- (a) has abandoned or repudiated the Contract;
- (b) has without valid reason failed to commence work on the Facilities promptly or has suspended, other than pursuant to GC Sub-Clause 41.2, the progress of Contract performance for more than twenty-eight (28) days after receiving a written instruction from the Employer to proceed;
- (c) persistently fails to execute the Contract in accordance with the Contract or persistently neglects to carry out its obligations under the Contract without just cause; or
- (d) refuses or is unable to provide sufficient materials, services or labor to execute and complete the Facilities in the manner specified in the program furnished under GC Sub-Clause 18.2 at rates of progress that give reasonable assurance to the Employer that the Contractor can attain Completion of the Facilities by the Time for Completion as extended;

then the Employer may, without prejudice to any other rights it may possess under the Contract, give a notice to the Contractor stating the nature of the default and requiring the Contractor to remedy the same. If the Contractor fails to remedy or to take steps to remedy the same within fourteen (14) days of its receipt of such notice, then the Employer may terminate the Contract forthwith by giving a notice of termination to the

Contractor that refers to this GC Sub-Clause 42.2.

42.2.3 Upon receipt of the notice of termination under GC Sub-Clauses 42.2.1 or 42.2.2, the Contractor shall, either immediately or upon such date as is specified in the notice of termination:

- (a) cease all further work, except for such work as the Employer may specify in the notice of termination for the sole purpose of protecting that part of the Facilities already executed, or any work required to leave the Site in a clean and safe condition;
- (b) terminate all subcontracts, except those to be assigned to the Employer pursuant to paragraph (d) below;
- (c) deliver to the Employer the parts of the Facilities executed by the Contractor up to the date of termination;
- (d) to the extent legally possible, assign to the Employer all right, title and benefit of the Contractor to the Facilities and to the Plant as of the date of termination, and, as may be required by the Employer, in any subcontracts concluded between the Contractor and its Subcontractors; and
- (e) deliver to the Employer all drawings, specifications and other documents prepared by the Contractor or its Subcontractors as of the date of termination in connection with the Facilities.

42.2.4 The Employer may enter upon the Site, expel the Contractor, and complete the Facilities itself or by employing any third Party. The Employer may, to the exclusion of any right of the Contractor over the same, take over and use with the payment of a fair rental rate to the Contractor, with all the maintenance costs to the account of the Employer and with an indemnification by the Employer for all liability including damage or injury to persons arising out of the Employer's use of such equipment, any Contractor's Equipment owned by the Contractor and on the Site in connection with the Facilities for such reasonable period as the Employer considers expedient for the supply and installation of the Facilities.

Upon completion of the Facilities or at such earlier date

as the Employer thinks appropriate, the Employer shall give notice to the Contractor that such Contractor's Equipment will be returned to the Contractor at or near the Site and shall return such Contractor's Equipment to the Contractor in accordance with such notice. The Contractor shall thereafter without delay and at its cost remove or arrange removal of the same from the Site.

42.2.5 Subject to GC Sub-Clause 42.2.6, the Contractor shall be entitled to be paid the Contract Price attributable to the Facilities executed as of the date of termination, the value of any unused or partially used Plant on the Site, and the costs, if any, incurred in protecting the Facilities and in leaving the Site in a clean and safe condition pursuant to paragraph (a) of GC Sub-Clause 42.2.3. Any sums due the Employer from the Contractor accruing prior to the date of termination shall be deducted from the amount to be paid to the Contractor under this Contract.

42.2.6 If the Employer completes the Facilities, the cost of completing the Facilities by the Employer shall be determined.

If the sum that the Contractor is entitled to be paid, pursuant to GC Sub-Clause 42.2.5, plus the reasonable costs incurred by the Employer in completing the Facilities, exceeds the Contract Price, the Contractor shall be liable for such excess.

If such excess is greater than the sums due the Contractor under GC Sub-Clause 42.2.5, the Contractor shall pay the balance to the Employer, and if such excess is less than the sums due the Contractor under GC Sub-Clause 42.2.5, the Employer shall pay the balance to the Contractor.

The Employer and the Contractor shall agree, in writing, on the computation described above and the manner in which any sums shall be paid.

42.3 Termination by the Contractor

42.3.1 If:

- (a) the Employer has failed to sign the Contract Agreement within one-hundred and eighty (180) days after receipt of the Letter of Acceptance by the Contractor, has failed to fulfill any conditions listed

in Article 3 (Effective Date) of the Contract Agreement, if applicable, within the stated period, has failed to pay the Contractor any sum due under the Contract within the specified period, has failed to approve any invoice or supporting documents without just cause pursuant to the Appendix to the Contract Agreement titled Terms and Procedures of Payment, or commits a substantial breach of the Contract, the Contractor may give a notice to the Employer that requires payment of such sum, with interest thereon as stipulated in GC Sub-Clause 12.3, requires approval of such invoice or supporting documents, or specifies the breach and requires the Employer to remedy the same, as the case may be. If the Employer fails to pay such sum together with such interest, fails to approve such invoice or supporting documents or give its reasons for withholding such approval, fails to remedy the breach or take steps to remedy the breach within fourteen (14) days after receipt of the Contractor's notice; or

- (b) the Contractor is unable to carry out any of its obligations under the Contract for any reason attributable to the Employer, including but not limited to the Employer's failure to provide possession of or access to the Site or other areas or failure to obtain any governmental permit necessary for the execution and/or completion of the Facilities,

then the Contractor may give a notice to the Employer thereof, and if the Employer has failed to pay the outstanding sum, to approve the invoice or supporting documents, to give its reasons for withholding such approval, or to remedy the breach within twenty-eight (28) days of such notice, or if the Contractor is still unable to carry out any of its obligations under the Contract for any reason attributable to the Employer within twenty-eight (28) days of the said notice, the Contractor may by a further notice to the Employer referring to this GC Sub-Clause 42.3.1, forthwith terminate the Contract.

- 42.3.2 The Contractor may terminate the Contract forthwith by giving a notice to the Employer to that effect, referring to this GC Sub-Clause 42.3.2, if the Employer becomes

bankrupt or insolvent, has a receiving order issued against it, compounds with its creditors, or, being a corporation, if a resolution is passed or order is made for its winding up (other than a voluntary liquidation for the purposes of amalgamation or reconstruction), a receiver is appointed over any part of its undertaking or assets, or if the Employer takes or suffers any other analogous action in consequence of debt.

42.3.3 If the Contract is terminated under GC Sub-Clauses 42.3.1 or 42.3.2, then the Contractor shall immediately:

- (a) cease all further work, except for such work as may be necessary for the purpose of protecting that part of the Facilities already executed, or any work required to leave the Site in a clean and safe condition;
- (b) terminate all subcontracts, except those to be assigned to the Employer pursuant to paragraph (d) (ii);
- (c) remove all Contractor's Equipment from the Site and repatriate the Contractor's and its Subcontractors' personnel from the Site; and
- (d) subject to the payment specified in GC Sub-Clause 42.3.4:
 - (i) deliver to the Employer the parts of the Facilities executed by the Contractor up to the date of termination;
 - (ii) to the extent legally possible, assign to the Employer all right, title and benefit of the Contractor to the Facilities and to the Plant as of the date of termination, and, as may be required by the Employer, in any subcontracts concluded between the Contractor and its Subcontractors; and
 - (iii) deliver to the Employer all drawings, specifications and other documents prepared by the Contractor or its Subcontractors as of the date of termination in connection with the Facilities.

42.3.4 If the Contract is terminated under GC Sub-Clauses 42.3.1 or 42.3.2, the Employer shall pay to the

Contractor all payments specified in GC Sub-Clause 42.1.3, and reasonable compensation for all loss, except for loss of profit, or damage sustained by the Contractor arising out of, in connection with or in consequence of such termination.

42.3.5 Termination by the Contractor pursuant to this GC Sub-Clause 42.3 is without prejudice to any other rights or remedies of the Contractor that may be exercised in lieu of or in addition to rights conferred by GC Sub-Clause 42.3.

42.4 In this GC Clause 42, the expression “Facilities executed” shall include all work executed, Installation Services provided, and all Plant acquired, or subject to a legally binding obligation to purchase, by the Contractor and used or intended to be used for the purpose of the Facilities, up to and including the date of termination.

42.5 In this GC Clause 42, in calculating any monies due from the Employer to the Contractor, account shall be taken of any sum previously paid by the Employer to the Contractor under the Contract, including any advance payment paid pursuant to the Appendix to the Contract Agreement titled Terms and Procedures of Payment.

43. Assignment

43.1 Neither the Employer nor the Contractor shall, without the express prior written consent of the other Party, which consent shall not be unreasonably withheld, assign to any third Party the Contract or any part thereof, or any right, benefit, obligation or interest therein or thereunder, except that the Contractor shall be entitled to assign either absolutely or by way of charge any monies due and payable to it or that may become due and payable to it under the Contract.

I. Claims, Disputes and Arbitration

44. Contractor’s Claims

44.1 If the Contractor considers himself to be entitled to any extension of the Time for Completion and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall submit a notice to the Project Manager, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than twenty-eight (28) days after the Contractor became aware, or should have become aware, of the event or circumstance.

If the Contractor fails to give notice of a claim within such

period of twenty-eight (28) days, the Time for Completion shall not be extended, the Contractor shall not be entitled to additional payment, and the Employer shall be discharged from all liability in connection with the claim. Otherwise, the following provisions of this Sub-Clause shall apply.

The Contractor shall also submit any other notices which are required by the Contract, and supporting particulars for the claim, all as relevant to such event or circumstance.

The Contractor shall keep such contemporary records as may be necessary to substantiate any claim, either on the Site or at another location acceptable to the Project Manager. Without admitting the Employer's liability, the Project Manager may, after receiving any notice under this Sub-Clause, monitor the record-keeping and/or instruct the Contractor to keep further contemporary records. The Contractor shall permit the Project Manager to inspect all these records, and shall (if instructed) submit copies to the Project Manager.

Within forty-two (42) days after the Contractor became aware (or should have become aware) of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Project Manager, the Contractor shall send to the Project Manager a fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed. If the event or circumstance giving rise to the claim has a continuing effect:

- (a) this fully detailed claim shall be considered as interim;
- (b) the Contractor shall send further interim claims at monthly intervals, giving the accumulated delay and/or amount claimed, and such further particulars as the Project Manager may reasonably require; and
- (c) The Contractor shall send a final claim within twenty-eight (28) Days after the end of the effects resulting from the event or circumstance, or within such other period as may be proposed by the Contractor and approved by the Project Manager.

Within forty-two (42) days after receiving a claim or any further particulars supporting a previous claim, or within such other period as may be proposed by the Project Manager and approved by the Contractor, the Project Manager shall respond with approval, or with disapproval and detailed comments. He

may also request any necessary further particulars, but shall nevertheless give his response on the principles of the claim within such time.

Each Payment Certificate shall include such amounts for any claim as have been reasonably substantiated as due under the relevant provision of the Contract. Unless and until the particulars supplied are sufficient to substantiate the whole of the claim, the Contractor shall only be entitled to payment for such part of the claim as he has been able to substantiate.

The Project Manager shall agree with the Contractor or estimate: (i) the extension (if any) of the Time for Completion (before or after its expiry) in accordance with GC Clause 40, and/or (ii) the additional payment (if any) to which the Contractor is entitled under the Contract.

The requirements of this Sub-Clause are in addition to those of any other Sub-Clause which may apply to a claim. If the Contractor fails to comply with this or another Sub-Clause in relation to any claim, any extension of time and/or additional payment shall take account of the extent (if any) to which the failure has prevented or prejudiced proper investigation of the claim, unless the claim is excluded under the second paragraph of this Sub-Clause.

In the event that the Contractor and the Employer cannot agree on any matter relating to a claim, either Party may refer the matter to the Dispute Board pursuant to GC Clause 45 hereof.

45. Disputes and Arbitration

45.1 Appointment of the Dispute Board

Disputes shall be referred to a DB for decision in accordance with GC Sub-Clause 45.3. The Parties shall appoint a DB by the date **stated in the PC**.

The DB shall comprise, as **stated in the PC**, either one or three suitably qualified persons (“the members”), each of whom shall be fluent in the language for communication defined in the Contract and shall be a professional experienced in the type of activities involved in the performance of the Contract and with the interpretation of contractual documents. If the number is not so stated and the Parties do not agree otherwise, the DB shall comprise three persons, one of whom shall serve as chairman.

If the Parties have not jointly appointed the DB twenty-one (21) days before the date stated in the PC and the DB is to comprise three persons, each Party shall nominate one member for the approval of the other Party. The first two members shall

recommend and the Parties shall agree upon the third member, who shall act as chairman.

However, if a list of potential members is **included in the PC**, the members shall be selected from those on the list, other than anyone who is unable or unwilling to accept appointment to the DB.

The agreement between the Parties and either the sole member or each of the three members shall incorporate by reference the General Conditions of Dispute Board Agreement contained in the Appendix to these General Conditions, with such amendments as are agreed between them.

The terms of the remuneration of either the sole member or each of the three members, including the remuneration of any expert whom the DB consults, shall be mutually agreed upon by the Parties when agreeing the terms of appointment of the member or such expert (as the case may be). Each Party shall be responsible for paying one-half of this remuneration.

If a member declines to act or is unable to act as a result of death, disability, resignation or termination of appointment, a replacement shall be appointed in the same manner as the replaced person was required to have been nominated or agreed upon, as described in this Sub-Clause.

The appointment of any member may be terminated by mutual agreement of both Parties, but not by the Employer or the Contractor acting alone. Unless otherwise agreed by both Parties, the appointment of the DB (including each member) shall expire at the end of the Defect Liability Period, as specified in GC Clause 27.

45.2 Failure to Agree on the Composition of the Dispute Board

If any of the following conditions apply, namely:

- (a) the Parties fail to agree upon the appointment of the sole member of the DB by the date stated in the first paragraph of GC Sub-Clause 45.1;
- (b) either Party fails to nominate a member (for approval by the other Party) of a DB of three persons by such date;
- (c) the Parties fail to agree upon the appointment of the third member (to act as chairman) of the DB by such date; or
- (d) the Parties fail to agree upon the appointment of a replacement person within forty-two (42) days after the

date on which the sole member or one of the three members declines to act or is unable to act as a result of death, disability, resignation or termination of appointment;

then the appointing entity or official **named in the PC** shall, upon the request of either or both of the Parties and after due consultation with both Parties, appoint this member of the DB. This appointment shall be final and conclusive. Each Party shall be responsible for paying one-half of the remuneration of the appointing entity or official.

45.3 Obtaining Dispute Board's Decision

If a dispute (of any kind whatsoever) arises between the Parties in connection with the performance of the Contract, including any dispute as to any certificate, determination, instruction, opinion or valuation of the Project Manager, either Party may refer the dispute in writing to the DB for its decision, with copies to the other Party and the Project Manager. Such reference shall state that it is given under this Sub-Clause.

For a DB of three persons, the DB shall be deemed to have received such reference on the date when it is received by the chairman of the DB.

Both Parties shall promptly make available to the DB all such additional information, further access to the Site, and appropriate facilities, as the DB may require for the purposes of making a decision on such dispute. The DB shall be deemed to be not acting as arbitrator(s).

Within eighty-four (84) days after receiving such reference, or within such other period as may be proposed by the DB and approved by both Parties, the DB shall give its decision, which shall be reasoned and shall state that it is given under this Sub-Clause. The decision shall be binding on both Parties, who shall promptly give effect to it unless and until it shall be revised in an amicable settlement or an arbitral award as described below. Unless the Contract has already been abandoned, repudiated or terminated, the Contractor shall continue with the performance of the Facilities in accordance with the Contract.

If either Party is dissatisfied with the DB's decision, then either Party may, within twenty-eight (28) days after receiving the decision, give notice to the other Party of its dissatisfaction and intention to commence arbitration. If the DB fails to give its decision within the period of eighty-four (84) days (or as

otherwise approved) after receiving such reference, then either Party may, within twenty-eight (28) days after this period has expired, give notice to the other Party of its dissatisfaction and intention to commence arbitration.

In either event, this notice of dissatisfaction shall state that it is given under this Sub-Clause, and shall set out the matter in dispute and the reason(s) for dissatisfaction. Except as stated in GC Sub-Clauses 45.6 and 45.7, neither Party shall be entitled to commence arbitration of a dispute unless a notice of dissatisfaction has been given in accordance with this Sub-Clause.

If the DB has given its decision as to a matter in dispute to both Parties, and no notice of dissatisfaction has been given by either Party within twenty-eight (28) days after it received the DB's decision, then the decision shall become final and binding upon both Parties.

45.4 Amicable Settlement

Where notice of dissatisfaction has been given under GC Sub-Clause 45.3 above, both Parties shall attempt to settle the dispute amicably before the commencement of arbitration. However, unless both Parties agree otherwise, arbitration may be commenced on or after the fifty-sixth (56th) day after the day on which notice of dissatisfaction and intention to commence arbitration was given, even if no attempt at amicable settlement has been made.

45.5 Arbitration

Any dispute between the Parties arising out of or in connection with the Contract not settled amicably in accordance with GC Sub-Clause 45.4 above and in respect of which the DB's decision (if any) has not become final and binding shall be finally settled by arbitration. Arbitration shall be conducted as follows:

- (a) if the Contract is with foreign Contractors (or if the lead partner is a foreign Contractor, in case of a JV), international arbitration with proceedings administered by the International Chamber of Commerce (ICC) and conducted under the ICC Rules of Arbitration, by one or more arbitrators appointed in accordance with said arbitration rules.
- (b) if the Contract is with domestic Contractors, arbitration with proceedings conducted in accordance with the laws

of the Employer's country.

The place of arbitration shall be a neutral location determined in accordance with the applicable rules of arbitration; and the arbitration shall be conducted in the language for communications defined in GC Sub-Clause 5.3 (Law and Language).

The arbitrator(s) shall have full power to open up, review and revise any certificate, determination, instruction, opinion or valuation of the Project Manager, and any decision of the DB, relevant to the dispute. Nothing shall disqualify representatives of the Parties and the Project Manager from being called as a witness and giving evidence before the arbitrator(s) on any matter whatsoever relevant to the dispute.

Neither Party shall be limited in the proceedings before the arbitrator(s) to the evidence or arguments previously put before the DB to obtain its(their) decision, or to the reasons for dissatisfaction given in its notice of dissatisfaction. Any decision of the DB shall be admissible in evidence in the arbitration.

Arbitration may be commenced prior to or after completion of the Facilities. The obligations of the Parties, the Project Manager and the DB shall not be altered by reason of any arbitration being conducted during the execution of the Facilities.

45.6 Failure to Comply with Dispute Board's Decision

In the event that a Party fails to comply with a DB decision which has become final and binding, then the other Party may, without prejudice to any other rights it may have, refer the failure itself to arbitration under GC Sub-Clause 45.5. GC Sub-Clauses 45.3 and 45.4 shall not apply to this reference.

45.7 Expiry of Dispute Board's Appointment

If a dispute arises between the Parties in connection with the performance of the Contract, and there is no DB in place, whether by reason of the expiry of the DB's appointment or otherwise:

- (a) GC Sub-Clauses 45.3 and 45.4 shall not apply; and
- (b) the dispute may be referred directly to arbitration under GC Sub-Clause 45.5

APPENDIX

A General Conditions of Dispute Board Agreement

1. Definitions

Each “Dispute Board Agreement” is a tripartite agreement by and between:

- (a) the “Employer”;
- (b) the “Contractor”; and
- (c) the “Member” who is defined in the Dispute Board Agreement as being:
 - (i) the sole member of the Dispute Board (“DB”) and, where this is the case, all references to the “Other Members” do not apply, or
 - (ii) one of the three persons who are jointly called the DB and, where this is the case, the other two persons are called the “Other Members”.

The Employer and the Contractor have entered (or intend to enter) into a contract, which is called the “Contract” and is defined in the Dispute Board Agreement, which incorporates this Appendix. In the Dispute Board Agreement, words and expressions which are not otherwise defined shall have the meanings assigned to them in the Contract.

2. General Provisions

Unless otherwise stated in the Dispute Board Agreement, it shall take effect on the latest of the following dates:

- (a) the Commencement Date defined in the Contract,
- (b) when the Employer, the Contractor and the Member have each signed the Dispute Board Agreement, or
- (c) when the Employer, the Contractor and each of the Other Members (if any) have respectively each signed a dispute board agreement.

This employment of the Member is a personal appointment. At any time, the Member may give not less than seventy (70) days’ notice of resignation to the Employer and to the Contractor, and the Dispute Board Agreement shall terminate upon the expiry of this period.

3. Warranties

The Member warrants and agrees that he/she is and shall be impartial and independent of the Employer, the Contractor and the Project Manager. The Member shall promptly disclose, to each of them and to the Other Members (if any), any fact or circumstance

which might appear inconsistent with his/her warranty and agreement of impartiality and independence.

When appointing the Member, the Employer and the Contractor relied upon the Member's representations that he/she is:

- (a) experienced in the work which the Contractor is to carry out under the Contract,
- (b) experienced in the interpretation of contract documentation, and
- (c) fluent in the language for communications defined in the Contract.

4. General Obligations of the Member

The Member shall:

- (a) have no interest financial or otherwise in the Employer, the Contractor or the Project Manager, nor any financial interest in the Contract except for payment under the Dispute Board Agreement;
- (b) not previously have been employed as a consultant or otherwise by the Employer, the Contractor or the Project Manager, except in such circumstances as were disclosed in writing to the Employer and the Contractor before they signed the Dispute Board Agreement;
- (c) have disclosed in writing to the Employer, the Contractor and the Other Members (if any), before entering into the Dispute Board Agreement and to his/her best knowledge and recollection, any professional or personal relationships with any director, officer or employee of the Employer, the Contractor or the Project Manager, and any previous involvement in the overall project of which the Contract forms part;
- (d) not, for the duration of the Dispute Board Agreement, be employed as a consultant or otherwise by the Employer, the Contractor or the Project Manager, except as may be agreed in writing by the Employer, the Contractor and the Other Members (if any);
- (e) comply with the annexed procedural rules and with GC Sub-Clause 45.3;
- (f) not give advice to the Employer, the Contractor, the Employer's Personnel or the Contractor's Personnel concerning the conduct of the Contract, other than in accordance with the annexed procedural rules;
- (g) not while a Member enter into discussions or make any agreement with the Employer, the Contractor or the Project Manager regarding employment by any of them, whether as a consultant or otherwise, after ceasing to act under the Dispute Board Agreement;
- (h) ensure his/her availability for all site visits and hearings as are necessary;

- (i) become conversant with the Contract and with the progress of the Facilities (and of any other parts of the project of which the Contract forms part) by studying all documents received which shall be maintained in a current working file;
- (j) treat the details of the Contract and all the DB's activities and hearings as private and confidential, and not publish or disclose them without the prior written consent of the Employer, the Contractor and the Other Members (if any); and
- (k) be available to give advice and opinions, on any matter relevant to the Contract when requested by both the Employer and the Contractor, subject to the agreement of the Other Members (if any).

5. General Obligations of the Employer and the Contractor

The Employer, the Contractor, the Employer's Personnel and the Contractor's Personnel shall not request advice from or consultation with the Member regarding the Contract, otherwise than in the normal course of the DB's activities under the Contract and the Dispute Board Agreement. The Employer and the Contractor shall be responsible for compliance with this provision, by the Employer's Personnel and the Contractor's Personnel respectively.

The Employer and the Contractor undertake to each other and to the Member that the Member shall not, except as otherwise agreed in writing by the Employer, the Contractor, the Member and the Other Members (if any):

- (a) be appointed as an arbitrator in any arbitration under the Contract;
- (b) be called as a witness to give evidence concerning any dispute before arbitrator(s) appointed for any arbitration under the Contract; or
- (c) be liable for any claims for anything done or omitted in the discharge or purported discharge of the Member's functions, unless the act or omission is shown to have been in bad faith.

The Employer and the Contractor hereby jointly and severally indemnify and hold the Member harmless against and from claims from which he is relieved from liability under the preceding paragraph.

Whenever the Employer or the Contractor refers a dispute to the DB under GC Sub-Clause 45.3, which will require the Member to make a site visit and attend a hearing, the Employer or the Contractor shall provide appropriate security for a sum equivalent to the reasonable expenses to be incurred by the Member. No account shall be taken of any other payments due or paid to the Member.

6. Payment

The Member shall be paid as follows, in the currency named in the Dispute Board Agreement:

- (a) a retainer fee per calendar month, which shall be considered as payment in full for:
 - (i) being available on twenty-eight (28) days' notice for all site visits and hearings;
 - (ii) becoming and remaining conversant with all project developments and maintaining relevant files;
 - (iii) all office and overhead expenses including secretarial services, photocopying and office supplies incurred in connection with his duties; and
 - (iv) all services performed hereunder except those referred to in sub-paragraphs (b) and (c) of this Clause.

The retainer fee shall be paid with effect from the last day of the calendar month in which the Dispute Board Agreement becomes effective; until the last day of the calendar month in which the Operational Acceptance Certificate is issued for the whole of the Facilities.

With effect from the first day of the calendar month following the month in which Operational Acceptance Certificate is issued for the whole of the Facilities, the retainer fee shall be reduced by one third. This reduced fee shall be paid until the first day of the calendar month in which the Member resigns or the Dispute Board Agreement is otherwise terminated.

- (b) a daily fee which shall be considered as payment in full for:
 - (i) each day or part of a day up to a maximum of two days' travel time in each direction for the journey between the Member's home and the site, or another location of a meeting with the Other Members (if any);
 - (ii) each working day on site visits, hearings or preparing decisions; and
 - (iii) each day spent reading submissions in preparation for a hearing.
- (c) all reasonable expenses including necessary travel expenses (air fare in less than first class, hotel and subsistence and other direct travel expenses) incurred in connection with the Member's duties, as well as the cost of telephone calls, courier charges, faxes and telexes: a receipt shall be required for each item in excess of five percent of the daily fee referred to in sub-paragraph (b) of this Clause;
- (d) any taxes properly levied in the Country on payments made to the Member (unless a national or permanent resident of the Country) under this Clause 6.

The retainer and daily fees shall be as specified in the Dispute Board Agreement.

Unless it specifies otherwise, these fees shall remain fixed for the first twenty-four (24) calendar months, and shall thereafter be adjusted by agreement between the Employer, the Contractor and the Member, at each anniversary of the date on which the Dispute Board Agreement became effective.

If the Parties fail to agree on the retainer fee or the daily fee the appointing entity or official named in the PC shall determine the amount of the fees to be used.

The Member shall submit invoices for payment of the monthly retainer and air fares quarterly in advance. Invoices for other expenses and for daily fees shall be submitted following the conclusion of a site visit or hearing. All invoices shall be accompanied by a brief description of activities performed during the relevant period and shall be addressed to the Contractor.

The Contractor shall pay each of the Member's invoices in full within fifty-six (56) calendar days after receiving each invoice and shall apply to the Employer (in the Statements under the Contract) for reimbursement of one-half of the amounts of these invoices. The Employer shall then pay the Contractor in accordance with the Contract.

If the Contractor fails to pay to the Member the amount to which he/she is entitled under the Dispute Board Agreement, the Employer shall pay the amount due to the Member and any other amount which may be required to maintain the operation of the DB; and without prejudice to the Employer's rights or remedies. In addition to all other rights arising from this default, the Employer shall be entitled to reimbursement of all sums paid in excess of one-half of these payments, plus all costs of recovering these sums and financing charges calculated at the rate specified in accordance with GC Sub-Clause 12.3.

If the Member does not receive payment of the amount due within seventy (70) days after submitting a valid invoice, the Member may (i) suspend his/her services (without notice) until the payment is received, and/or (ii) resign his/her appointment by giving notice under Clause 7.

7. Termination

At any time: (i) the Employer and the Contractor may jointly terminate the Dispute Board Agreement by giving forty-two (42) days' notice to the Member; or (ii) the Member may resign as provided for in Clause 2.

If the Member fails to comply with the Dispute Board Agreement, the Employer and the Contractor may, without prejudice to their other rights, terminate it by notice to the Member. The notice shall take effect when received by the Member.

If the Employer or the Contractor fails to comply with the Dispute Board Agreement, the Member may, without prejudice to his other rights, terminate it by notice to the Employer and the Contractor. The notice shall take effect when received by them both.

Any such notice, resignation and termination shall be final and binding on the Employer, the Contractor and the Member. However, a notice by the Employer or the

Contractor, but not by both, shall be of no effect.

8. Default of the Member

If the Member fails to comply with any of his obligations under Clause 4 concerning his impartiality or independence in relation to the Employer or the Contractor, he/she shall not be entitled to any fees or expenses hereunder and shall, without prejudice to their other rights, reimburse each of the Employer and the Contractor for any fees and expenses received by the Member and the Other Members (if any), for proceedings or decisions (if any) of the DB which are rendered void or ineffective by the said failure to comply.

9. Disputes

Any dispute or claim arising out of or in connection with this Dispute Board Agreement, or the breach, termination or invalidity thereof, shall be finally settled by institutional arbitration. The arbitration shall be conducted under the Rules of Arbitration of the International Chamber of Commerce by one arbitrator appointed in accordance with these Rules of Arbitration.

Annex

DISPUTE BOARD GUIDELINES

1. Unless otherwise agreed by the Employer and the Contractor, the DB shall visit the site at intervals of not more than one hundred forty (140) days, including times of critical construction events, at the request of either the Employer or the Contractor. Unless otherwise agreed by the Employer, the Contractor and the DB, the period between consecutive visits shall not be less than seventy (70) days, except as required to convene a hearing as described below.
2. The timing of and agenda for each site visit shall be as agreed jointly by the DB, the Employer and the Contractor, or in the absence of agreement, shall be decided by the DB. The purpose of site visits is to enable the DB to become and remain acquainted with the progress of the Contract and of any actual or potential problems or claims, and, as far as reasonable, to prevent potential problems or claims from becoming disputes.
3. Site visits shall be attended by the Employer, the Contractor and the Project Manager and shall be co-ordinated by the Employer in co-operation with the Contractor. The Employer shall ensure the provision of appropriate conference facilities and secretarial and copying services. At the conclusion of each site visit and before leaving the site, the DB shall prepare a report on its activities during the visit and shall send copies to the Employer and the Contractor.
4. The Employer and the Contractor shall furnish to the DB one copy of all documents which the DB may request, including Contract documents, progress reports, variation instructions, certificates and other documents pertinent to the performance of the Contract. All communications between the DB and the Employer or the Contractor shall be copied to the other Party. If the DB comprises three persons, the Employer and the Contractor shall send copies of these requested documents and these communications to each of these persons.
5. If any dispute is referred to the DB in accordance with GC Sub-Clause 45.3, the DB shall proceed in accordance with GC Sub-Clause 45.3 and these Guidelines. Subject to the time allowed to give notice of a decision and other relevant factors, the DB shall:
 - (a) act fairly and impartially as between the Employer and the Contractor, giving each of them a reasonable opportunity of putting his case and responding to the other's case, and
 - (b) adopt procedures suitable to the dispute, avoiding unnecessary delay or expense.
6. The DB may conduct a hearing on the dispute, in which event it will decide on the date and place for the hearing and may request that written documentation and arguments from the Employer and the Contractor be presented to it prior to or at the hearing.

7. Except as otherwise agreed in writing by the Employer and the Contractor, the DB shall have power to adopt an inquisitorial procedure, to refuse admission to hearings or audience at hearings to any persons other than representatives of the Employer, the Contractor and the Project Manager, and to proceed in the absence of any Party who received notice of the hearing; but shall have discretion to decide whether and to what extent this power may be exercised.
8. The Employer and the Contractor empower the DB, among other things, to:
 - (a) establish the procedure to be applied in deciding a dispute,
 - (b) decide upon the DB's own jurisdiction, and as to the scope of any dispute referred to it,
 - (c) conduct any hearing as it thinks fit, not being bound by any rules or procedures other than those contained in the Contract and these Guidelines,
 - (d) take the initiative in ascertaining the facts and matters required for a decision,
 - (e) make use of its own specialist knowledge, if any,
 - (f) decide upon the payment of financing charges in accordance with the Contract,
 - (g) decide upon any provisional relief such as interim or conservatory measures,
 - (h) open up, review and revise any certificate, decision, determination, instruction, opinion or valuation of the Project Manager, relevant to the dispute, and
 - (i) appoint, should the DB so consider necessary and the Parties agree, a suitable expert at the cost of the Parties to give advice on a specific matter relevant to the dispute.
9. The DB shall not express any opinions during any hearing concerning the merits of any arguments advanced by the Parties. Thereafter, the DB shall make and give its decision in accordance with GC Sub-Clause 45.3, or as otherwise agreed by the Employer and the Contractor in writing. If the DB comprises three persons:
 - (a) it shall convene in private after a hearing, in order to have discussions and prepare its decision;
 - (b) it shall endeavour to reach a unanimous decision: if this proves impossible the applicable decision shall be made by a majority of the Members, who may require the minority Member to prepare a written report for submission to the Employer and the Contractor; and
 - (c) if a Member fails to attend a meeting or hearing, or to fulfil any required function, the other two Members may nevertheless proceed to make a decision, unless:
 - (i) either the Employer or the Contractor does not agree that they do so, or

- (ii) the absent Member is the chairman and he/she instructs the other Members to not make a decision.

Section VIII. Particular Conditions

Particular Conditions

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Particular Conditions

PC 1. Definitions	
PC 1.1	<p>The Employer is Odisha Power Transmission Corporation Limited (OPTCL).</p> <p>The Project Manager is Designated Officer appointed as Project Manager by the Employer.</p> <p>“NIT” means Notice Inviting Tender, same as the date of “ Invitation For Bids”.</p>
PC 5. Law and Language	
PC 5.1	The Contract shall be interpreted in accordance with the laws of India.
PC 5.2	The ruling language is English. However, documents in any other language shall be translated in to English Language which shall only be considered for contractual purpose.
PC 7. Scope of Facilities	
PC 7.3	<p>The Contractor agrees to supply spare parts for a period of years: two (2) years</p> <p>The Contractor shall carry sufficient inventories to ensure an ex-stock supply of consumable spares for the Plant. Other spare parts and components shall be supplied as promptly as possible, but at the most within six (6) months of placing the order and opening the letter of credit. In addition, in the event of termination of the production of spare parts, advance notification will be made to the Employer of the pending termination, with sufficient time to permit the Employer to procure the needed requirement. Following such termination, the Contractor will furnish to the extent possible and at no cost to the Employer the blueprints, drawings and specifications of the spare parts, if requested.</p>
PC 8. Time for Commencement and Completion	
PC.8.1	The Contractor shall commence work on the Facilities within fifteen (15) days from the Effective Date for determining Time for Completion as specified in the Contract Agreement.
PC 8.2	<p>The Time for Completion of the whole of the Facilities shall be twenty four (24) months from the Effective Date for determining Time for Completion as specified in the Contract Agreement.</p> <p>The Time for Completion for parts of the Facilities shall be as per the agreed work completion schedule (WBS/PERT) from the Effective Date as described in the Contract Agreement.</p>
PC 11. Contract Price	
PC 11.2	The Contract Price shall be adjusted in accordance with the provisions of Appendix 2 (Price Adjustment) to the Contract Agreement.

PC 13. Securities	
PC 13.3.1	The amount of Performance Security, as a percentage of the Contract Price for the Facility or for the part of the Facility for which a separate Time for Completion is provided, shall be 10% of the contract price.
PC 13.3.2	The Performance Security shall be in the form of the Bank Guarantee as per form included in Section IX which shall be issued by a reputable bank in India or Abroad, acceptable to the Employer en-cashable at Bhubaneswar Branch of the issuing bank. In case the bank issuing the bank guarantee is located outside India, it shall have a correspondent bank located in India having branch in Bhubaneswar to make it enforceable. Besides, it shall carry the confirmation of the correspondent Bank located in India.
PC 14. Taxes and Duties	
PC 14.2	As Unit Price of the contract is inclusive of all taxes, duties, levies, including Custom duties and GST, the Employer shall not bear any additional charges towards taxes, duties, levies, including Custom duties and GST.
PC 14.4	Any statutory variation due to revision in rate of existing Goods and Service Tax shall be paid or reimbursed based on the time of supply of Goods or Services or Both within the contractual period as per the GST laws.
PC. 22 Installation	
PC 22.2.5	Working Hours Normal working hours are eight (8) hours.
PC 23. Test & Inspection	
PC 23.2	<p><i>Replacing Sub-clause 23.2 with the following:</i></p> <p>Expenses in respect of OPTCL's representative for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site.</p> <ul style="list-style-type: none"> The testing and inspection of the equipment/ materials at manufacturer works are in the scope of work of the Contractor/Supplier. Travel Expenses of OPTCL Representative & Third Party Inspecting Agency (TPIA) shall be borne by the Contractor. However the Inspection Fees payable to TPIA will be borne by OPTCL. OPTCL inspecting officer and Third Party Inspecting Agency (TPIA), on receipt of offer for inspection from the contractor/supplier, shall proceed to the manufacturer works to witness the Type/Acceptance/Routine test. <p>The travel expenses under the following heads, in respect of OPTCL's representative and TPIA for witnessing the inspection & testing of the offered equipment/materials at the inspection and testing site, shall be borne by the contractor.</p>

a) Hotel Accommodation:

I. Single room accommodation in 4 star hotel for OPTCL/TPIA inspecting officer, not below the rank of Assistant General Manager (Grade E-6),.

II. Single room accommodation in 3 star hotel for OPTCL/TPIA inspecting officer of the rank below Assistant General Manager(Grade E-6).

N.B.: It is the responsibility of the contractor to arrange the hotel accommodation matching with their inspection and testing schedule. In case of extended duration of inspection or non-availability of the return ticket, Contractor shall arrange for the extended stay of the inspecting officer in the Hotel accordingly. In case, there is no hotel with prescribed standard in and around the place of inspection, the contractor shall suggest alternative suitable arrangement at the time of offer for inspection, which is subjected to acceptability of OPTCL inspecting officer.

b) Journey of the Inspecting Officer:

(i) To and fro travel expenditure from the Head Quarters of the inspecting officer to the place of inspection/testing shall be borne by the contractor as per the following.

- Journey from the Head Quarters to the nearest Airport by train (Ist/Ind A/C) or Taxi (A/C).
- Journey from destination Airport to the place of inspection/testing by train (Ist/Ind A/C) or Taxi (A/C).

□ For train journey, inspecting officer, not below the rank of Assistant General Manager shall be provided with 1st class AC ticket and inspecting officer below the rank of Assistant General Manager shall be provided with 2nd class AC ticket.

(ii) Booking/cancellation of Air-ticket / Train-ticket is the responsibility of the contractor.

(iii) Moreover, if during the journey there is an unavoidable necessity for intermediate travel by road/ waterway/sea-route, the contractor/supplier shall provide suitable conveyance to the inspecting officer for travel this stretch of journey or bear the cost towards this. Any such possibilities shall be duly *intimated to OPTCL at the time of their offer for inspection.*

c) Local Conveyance:

Local journey for the inspecting officer between Hotel and the place of the inspection/testing site, Air-conditioned four wheeler vehicles in good condition shall be provided by the contractor.

d) Other Important Information:

(i) All the above expenses shall be deemed to be included in the bidder's quoted price for that supply item. Bidder shall not be eligible to raise any extra claim in this regard.

(ii) Contractor may assume that only in 40% of the inspection and testing offer cases, OPTCL/TPIA inspecting officer (not below the rank of Assistant General Manager) will witness the inspection and testing.

PC 25. Commissioning and Operational Acceptance	
PC 25.2.2	The Guarantee Test of the Facilities shall be successfully completed within six (6) months from the date of Completion.
PC 26. Completion Time Guarantee	
PC 26.2	<p>The price (taxable value) under the GST Law (i.e. exclusive of GST) will be reduced @ 0.5% for each week of delay or part thereof on the undelivered portion of the materials/equipment and incomplete portion of works.</p> <p>The total amount of Price Reduction Schedule for delay under the Contract will be subject to a maximum of 5% of the total taxable value of the Contract under GST Law (i.e. exclusive of GST).</p> <p>The price reduction shall be recovered from the bills of the contractor and credit advice shall be issued by the contractor accordingly.</p>
PC 26.3	<p>Applicable (amount or rate) for the bonus for early Completion of plant and services in complete shape: 0.5% per week of early Completion of the Facilities or part thereof, in accordance with the Time for Completion specified in PC 8.2.</p> <p>Maximum bonus: 2.5% of the contract price</p>
PC 45. Disputes and Arbitration	
PC 45.1	<p>The DB shall be appointed within 28 days after the Effective Date.</p> <p>The DB shall be three (3) members.</p> <p>List of potential DB members is None.</p>
PC 45.2	Appointment (if not agreed) to be made by Delhi High Court Arbitration Centre, New Delhi, India.
New Clause: Indemnity	
Indemnity	The contractor is liable to furnish indemnity bond as per the attached format in Section VI, duly indemnifying the Employer for the Equipment supplied and under the custody of the Contractor after supply of material for Installation and Services.

Section IX. Contract Forms

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Notification of Award - Letter of Acceptance

[on letterhead paper of the Employer]

[insert date]

To: *[insert name and address of the Contractor]*

Subject: *Notification of Award Contract No.* ____

This is to notify you that your Bid dated *[insert date]* for execution of the *[insert name of the Contract and identification number]* for the Contract Price in the aggregate of *[insert amount in words and figures]* *[insert name of currency]*, as corrected and modified in accordance with the Instructions to Bidders is hereby accepted by our Agency.

You are requested to furnish the Performance Security within twenty-eight (28) days in accordance with the Conditions of Contract, using for that purpose one of the Performance Security Forms included in Section IX, Contract Forms, of the Bidding Documents.

Authorized Signature: _____

Name and Title of Signatory: _____

Name of Agency: _____

Attachment: Contract Agreement

Contract Agreement

THIS AGREEMENT is made the _____ day of _____, _____,
BETWEEN

(1) _____[*insert name of Employer*], a corporation incorporated under the laws of _____[*insert country of Employer*] and having its principal place of business at _____[*insert address of Employer*] (hereinafter called “the Employer”), and (2) _____[*insert name of Contractor*], a corporation incorporated under the laws of _____[*insert country of Contractor*] and having its principal place of business at _____[*insert address of Contractor*] (hereinafter called “the Contractor”).

WHEREAS the Employer desires to engage the Contractor to design, manufacture, test, deliver, install, complete and commission certain Facilities, viz. _____[*insert list of Facilities*] (hereinafter called “the Facilities”), and the Contractor has agreed to such engagement upon and subject to the terms and conditions hereinafter appearing.

NOW IT IS HEREBY AGREED as follows:

Article 1.
Contract Documents

1.1 Contract Documents (Reference General Conditions (“GC”) Clause 2)

The following documents shall constitute the Contract between the Employer and the Contractor, and each shall be read and construed as an integral part of the Contract:

- (a) This Contract Agreement and the Appendices hereto
- (b) Letter of Technical Bid
- (c) Letter of Price Bid
- (d) Particular Conditions
- (e) General Conditions
- (f) Employer’s Requirements
- (g) Other completed Bidding Forms submitted with the Bid
- (h) Acknowledgment of Compliance with Guidelines for Procurement under Japanese ODA Loans
- (i) [*Any other documents shall be added here*]

1.2 Order of Precedence (Reference GC Clause 2)

In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order in which the Contract Documents are listed in Article 1.1

(Contract Documents) above.

1.3 Definitions (Reference GC Clause 1)

Capitalized words and phrases used herein shall have the same meanings as are ascribed to them in the General Conditions.

Article 2.
Contract Price
and Terms of
Payment

2.1 Contract Price (Reference GC Clause 11)

The Employer hereby agrees to pay to the Contractor the Contract Price in consideration of the performance by the Contractor of its obligations hereunder. The Contract Price shall be the aggregate of: _____ [*insert amount(s) in foreign currency(ies) in words and figures*] as specified in Price Schedule No. 6 (Grand Summary), and _____ [*insert amount in local currency in words and figures*], or such other sums as may be determined in accordance with the terms and conditions of the Contract.

2.2 Terms of Payment (Reference GC Clause 12)

The Contract Price shall be paid by the Employer to the Contractor at the times, in the manner, and in accordance with the provisions of Appendix 1 (Terms and Procedures of Payment) hereto.

The Employer shall instruct its bank to issue an irrevocable confirmed documentary credit made available to the Contractor in a bank in the country of the Contractor. The credit shall be for an amount of _____ [*insert amount equal to the total named in Schedule 1 less the advance payment to be made for Plant and Equipment supplied from abroad*]; and shall be subject to the Uniform Customs and Practice for Documentary Credits 1993 Revision, ICC Publication No. 600.

In the event that the amount payable under Schedule No. 1 is adjusted in accordance with GC 11.2 or with any of the other terms of the Contract, the Employer shall arrange for the documentary credit to be amended accordingly.

Article 3.
Effective Date

3.1 Effective Date (Reference GC Clause 1)

The Effective Date from which the Time for Completion of the Facilities shall be counted is the date when this Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor. The Employer undertakes to ensure that the conditions listed below in this Article 3 (Effective Date) shall all have been fulfilled within [*insert number of months, normally two (2) months*] after such Effective Date:

[Conditions:

List any applicable conditions.

If no conditions are required to be fulfilled, delete all of Article 3, except for the first sentence.]

**Article 4.
Communications**

4.1 The address of the Employer for notice purposes, pursuant to GC Clause 4.1 is: _____ [*insert Employer's address*].

4.2 The address of the Contractor for notice purposes, pursuant to GC Clause 4.1 is: _____ [*insert Contractor's address*].

**Article 5.
Appendices**

5.1 The Appendices listed in the attached List of Appendices shall be deemed to form an integral part of this Contract Agreement.

5.2 Reference in the Contract to any Appendix shall mean the Appendices attached hereto, and the Contract shall be read and construed accordingly.

IN WITNESS WHEREOF the Employer and the Contractor have caused this Agreement to be duly executed by their duly authorized representatives the day and year first above written.

Signed by, for and on behalf of the Employer

[Signature]

[Title]

in the presence of _____

Signed by, for and on behalf of the Contractor

[Signature]

[Title]

in the presence of _____

APPENDICES

- Appendix 1 Terms and Procedures of Payment
- Appendix 2 Price Adjustment
- Appendix 3 Insurance Requirements
- Appendix 4 Time Schedule
- Appendix 5 List of Major Items of Plant and Installation Services and List of Approved Subcontractors
- Appendix 6 Scope of Works and Supply by the Employer
- Appendix 7 List of Documents for Approval or Review
- Appendix 8 Functional Guarantees

Appendix 1. Terms and Procedures of Payment

In accordance with the provisions of GC Clause 12 (Terms of Payment), the Employer shall pay the Contractor in the following manner and at the following times, on the basis of the Price Breakdown given in the section on Price Schedules. Payments will be made in the currencies quoted by the Bidder. Applications for payment in respect of part deliveries may be made by the Contractor as work proceeds.

1. TERMS OF PAYMENT

Schedule No. 1. Plant and Equipment Supplied from Abroad

In respect of plant and equipment supplied from abroad, the following payments shall be made:

- a. **Ten percent (10%)** of the total CIP amount as an advance payment shall be made in two equal installments (5% each) within twenty-one (21) days after receipt of invoice and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer en-cashable at Bhubaneswar Branch of the issuing Bank subject to the following;

First installment @5%:

- i. Signing of the Contract agreement.
- ii. Evidence (Rental agreement with land lord) of establishment of Site Office.

Second installment @5%:

- i. Placement of Orders for the major equipment defined in the Employers Requirement (Section-VI).

All advance payment made shall be recovered proportionately from progressive running bill (from 70% payment) of the contractor with interest @ 1% above LIBOR in case foreign currency and @ 1% above REPO rate (in case of Indian currency) as applicable on the date of release.

Note: (1) In case the bank issuing the bank guarantee is located outside India, it shall have a correspondent bank located in India having branch in Bhubaneswar to make it enforceable. Besides, it shall carry the confirmation of the correspondent Bank located in India.

(2) In case the contractor will not avail the above 10% advance, he has to comply with all the milestones for advance payment (mentioned at a) for 70% payment (mentioned at b) as per TOP along with the documents mentioned.

- b. **Seventy percent**) of the total or pro rata CIP (Kolkata/Vizag) & final destination amount upon Incoterm "CIP" delivery of Plant and Equipment at Port of Entry-Kolkata/Vizag & final destination within forty-five (45) days after receipt of the invoice & documents as below.

The contractor shall send the following documents to the Employer, with a copy to the Insurance Company:

- i. Four copies of the Contractor's GST Tax invoice showing the description of the Plant, Consignee, quantity, unit CIP Price , rate of GST(i.e ISGT or CGST plus OGST) taxable value and total amount.
- ii. Four copies of the certificate issued by the Employer that Liquidated Damages provision is not attracted. Alternatively, either a certificate specifying unit CIP prices payable for each Plant/equipment after accounting for the Liquidated Damages due and recoverable as per contract or a certificate specifying the amount of Liquidated Damages recoverable as per contract.
- iii. Four copies of the Insurance Certificate.
- iv. Four copies of Contractor's certificate that equipment/Plant material with all Components have been delivered, complete in all respects, at site.
- v. Four copies of Material Receipt Certificate (MRC) for all items as per (d) above from consignee.
- vi. Four copies of supplier's Packing List;
- vii. Four copies of Copy of test certificate approved by the Employer.
- viii. Four copies of Warranty Certificate.
- ix. Four copies of inspection certificate issued by the nominated Officer / Inspection Agency, and the Contractor's factory Inspection report; and
- x. Four copies of Contractor's certificate of origin.
- xi. Original and three copies of the negotiable clean, on-board bill of lading marked: freight Prepaid and four copies of non-negotiable bill of lading.

Note:

- Upon shipment, the contractor shall notify the Employer and the Insurance Company by e-mail/fax , the full details of the shipment including contact number, description of goods, quantity, the vessel name, the bill of lading number and date, port of loading, date of shipment, port of discharge etc.
 - Employer shall receive the above documents at least one week before arrival of the goods at the port or place of arrival and, if not received, the contractor will be responsible for any consequent expenses incurred.
- c. **Twenty percent (20%)** of the total or pro rata CIP/EX-works amount upon erection of the material at site & certification by Engineer in Charge, within forty-five (45) days after receipt of invoice.

- d. **Five percent (5%)** of the total or pro rata CIP amount upon issue of the Completion Certificate, within forty-five (45) days after receipt of invoice.
- e. **Five percent (5%)** of the total or pro rata CIP amount upon issue of the Operational Acceptance Certificate, within forty-five (45) days after receipt of invoice.

Schedule No. 2. Plant and Equipment Supplied from within the Employer's Country

In respect of plant and equipment supplied from within the Employer's country, the following payments shall be made:

- a. **Ten percent (10%)** of the total EX-Works amount as an advance payment shall be made in two equal installments (5% each) within twenty-one (21) days after receipt of invoice, and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer en-cashable at Bhubaneswar Branch of the issuing Bank subject to the following;

First installment @5%:

- i. Signing of the Contract agreement.
- ii. Evidence (Rental agreement with land lord) of establishment of Site Office.

Second installation @ 5%

- i. Placement of Orders for the major equipment defined in the Employers Requirement (Section-VI).

All advance payment made shall be recovered proportionately from progressive running bill (from 70% payment) of the contractor with interest @ 1% above LIBOR in case foreign currency and @ 1% above REPO rate (in case of Indian currency) as applicable on the date of release.

Note: (1) In case the bank issuing the bank guarantee is located outside India, it shall have a correspondent bank located in India having branch in Bhubaneswar to make it enforceable. Besides, it shall carry the confirmation of the correspondent Bank located in India.

(2) In case the contractor will not avail the above 10% advance, he has to comply with all the milestones for advance payment (mentioned at a) for 70% payment (mentioned at b) as per TOP along with the documents mentioned.

- b. **Seventy percent (70%)** of the total or pro rata EX-Works amount upon Incoterm "EX-Works," upon delivery to the carrier within forty-five (45) days after receipt of invoice and documents.

Upon delivery of goods to the transporter, the contractor shall notify the following to the Employer by e-mail/fax.

- i. Four copies of the Contractor's GST Tax invoice showing the description of the Plant, Consignee, quantity, unit ex-works, rate of GST(i.e ISGT or CGST plus

- OGST) taxable value and total amount.
- ii. Four copies of the certificate issued by the Project Manager or person designated by him that Liquidated Damages provision is not attracted. Alternatively, either a certificate specifying unit ex-works prices payable for each /Plant/equipment after accounting for the Liquidated Damages due and recoverable as per contract or a certificate specifying the amount of Liquidated Damages recoverable as per contract.
 - iii. Four copies of the Insurance Certificate.
 - iv. Four copies of Contractor's certificate that Plant/equipment with all components has been delivered, complete in all respects, at site.
 - v. Four copies of Material Receipt Certificate (MRC) for all items as per (d) above from consignee;
 - vi. Four copies of Contractor's Packing List.
 - vii. Copy of test certificate approval and Dispatch Instructions issued by the Employer combined or separately.
 - viii. Four copies of Warranty Certificate.
 - ix. Four copies of inspection certificate (release Note) issued by the nominated Officer / Inspection Agency, and the Contractor's factory Inspection report; and
 - x. Four copies of supplier's certificate of origin;

Note: Employer shall receive the above documents at least one week before arrival of the goods at site, or place of arrival and, if not received, the contractor will be responsible for any consequent expenses incurred.

- c. **Twenty percent (20%)** of the total or pro rata CIP/EX-works amount upon erection of the material at site & certification by Engineer in Charge, within forty-five (45) days after receipt of invoice.
- d. **Five percent (5%)** of the total or pro rata EX-Works amount upon issue of the Completion Certificate, within forty-five (45) days after receipt of invoice.
- e. **Five percent (5%)** of the total or pro rata EX-Works amount upon issue of the Operational Acceptance Certificate, within forty-five (45) days after receipt of invoice.

Schedule No. 3. Design Services <Not Applicable>

Schedule No. 4. Installation Services

In respect of installation services for both the foreign and local currency portions, the

following payments shall be made:

- a. **Ten percent (10%)** of the total installation services amount as an advance payment shall be made in two equal installments (5% each) within twenty-one (21) days after receipt of invoice, and an irrevocable advance payment security for the equivalent amount made out in favor of the Employer en-cashable at Bhubaneswar Branch of the issuing Bank subject to the following;

First installment @5%:

- i. Signing of the Contract agreement.
- ii. Evidence (Rental agreement with land lord) of establishment of Site Office.

Second installment @5%:

- i. Submission and acceptance of final filed survey report.
- ii. Placement of Orders for Sub-Contractor, if any.

All advance payment made shall be recovered proportionately from progressive running bill (from 90% payment) of the contractor with interest @ 1% above LIBOR in case foreign currency and @ 1% above REPO rate (in case of Indian currency).

Note: (1) In case the bank issuing the bank guarantee is located outside India, it shall have a correspondent bank located in India having branch in Bhubaneswar to make it enforceable. Besides, it shall carry the confirmation of the correspondent Bank located in India.

(2) In case the contractor will not avail the above 10% advance, he has to comply with all the milestones for advance payment (mentioned at a) for 90% payment (mentioned at b) as per TOP along with the documents mentioned.

- b. Ninety percent (90%) of the measured value of work performed by the Contractor, as identified in the Program of Performance, during the preceding month, as evidenced by the Employer's authorization of the Contractor's application, will be made monthly within forty-five (45) days after receipt of invoice and submission of following documents excluding the installation services for Control Room Building, Colony Quarters and Boundary Wall.
- i. Four copies of the contractor's GST Tax Invoice showing the description of the activities, quantity, unit price, rate of GST (i.e ISGT or CGST plus OGST) taxable value and total amount.
 - ii. Four copies of the certificate issued by the Project Manager or any other person designated by him that Liquidated Damages provision is not attracted. Alternatively, either a certificate specifying unit prices payable for each erection activity after accounting for the Liquidated Damages due and recoverable as per contract or a

certificate specifying the amount of Liquidated Damages recoverable as per contract.

- iii. Four copies of certificate of Operational acceptance duly certified by the Engineer-In-Charge.
- iv. Four copies of joint measurement certificate (JMC) jointly signed by the Engineer-In-Charge and the Contractor.
- v. Four copies of dismantled list of materials returned, if any, duly acknowledged / certified by the concerned Engineer-In-Charge.
- vi. Four Copies of all Statutory documents such as Valid Labour License, PAN Card and Storage-Cum-Erection Insurance Certificate.
- vii. Four copies of Monthly Material Utilisation Certificate, quarterly Material Reconciliation statement and fortnightly physical progress reports duly certified by the Engineer-In-Charge of the Employer.

Stage payment for 90% of installation services for the followings (3 items) as per the following norms.

Construction of:-

- (I) Control Room Building
- (II) Colony Quarters.
- (III) Boundary Wall.

The details are as below.

A) Construction of Switch yard Building{Control room Building: (Double Storied)

SI No.	Description of Stages	Payment Terms
1	RCC as per Contract:	
1.1	Ground Floor	(54% of total price)
1.1.1	Up to plinth level	8.1% of the total value
1.1.2	Up to lintel level	16.2% of the total value
1.1.3	After roof casting	29.7% of the total value
1.1.4	First Floor	(36% of total price)
1.1.5	(1) Up to lintel level	12.6 % of the total value
1.1.6	(2) After roof casting	23.4% of the total value

2	Brick masonry work as per contract	
2.1	(1) Ground Floor	54 % of total price
2.2	(2) First Floor	36% of total price
3	Flooring as per Contract	
3.1	(1) Ground Floor	49.5% of total price
3.2	(2) First Floor	40.5% of total price

B) Construction of Colony Quarters:

SI No.	Description of Stages	Payment Terms
1	'D'-type as per contract	90% of total price
1.1	Up to plinth level	9 % of ordered price
1.2	After brick work	13.5% of ordered price
1.3	After roof casting	27% of ordered price
1.4	After complete in Full shape	40.5 % ordered price
2	'E' type as per contract	
2.1	Ground Floor	(90% of total price)
2.1.1	Up to plinth level	9 % of ordered price of Ground Floor
2.1.2	After brick work	13.5% of ordered price of Ground Floor
2.1.3	After roof casting	27% of ordered price of Ground Floor
2.1.4	After complete in Full shape	40.5 % of ordered price of Ground Floor
2.2	First Floor	(90 % Total price)
2.2.1	Up to lintel level	13.5% of ordered price of First Floor
2.2.2	After roof casting	27% of ordered price of First Floor
2.2.3	After complete in Full shape	49.5 % of ordered price of First Floor

C) Construction of Boundary Wall:

SI No.	Description of Stages	Payment Terms
1	Excavation & bed Concrete & Foundation	18 % of the ordered price
2	Brick Work	27% of the ordered price
3	Plastering	18% of the ordered price
4	After complete in full shape	27% of the ordered price

Note: All progressive payment linked with price Schedule-4 above shall be made after the issue of certificate by the Engineer-In-Charge of the Employer, on quantum

of work completed and successful completion of quality check points involved in the quantum of work billed.

- c. **Five percent (5%)** of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Completion Certificate, within forty-five (45) days after receipt of invoice.
- d. **Five percent (5%)** of the total or pro rata value of installation services performed by the Contractor as evidenced by the Employer's authorization of the Contractor's monthly applications, upon issue of the Operational Acceptance Certificate, within forty-five (45) days after receipt of invoice.
- e. All advance payment shall be interest bearing and recovery of advance along with the interest component on the advance amount shall be as under
 - (i) All advance payment made shall be recovered progressively from each running bill of the contractor along with interest @ 1% above LIBOR on the date of payment of mobilization advance applicable to the foreign currency in which mobilization advance is paid. In case of Indian currency it shall be recovered progressively from each running bill of the contractor along with interest 1% above the REPO rate applicable on the date of payment of mobilization advance.
 - (ii) The amount of interest to be recovered from a particular bill shall be calculated as per above per annum on the value of advance corresponding to the % age of total progressive payment being released. The period for which, the interest is to be calculated shall be reckoned from the date of release of the advance payment to the actual date of release of the said progressive payment of the expiry of stipulated time frame for release of such progressive payments. If the amount payable under any interim bill is not sufficient to cover all deductions to be made for interest on the advance payment and other sums deductible there from, the balance outstanding shall be recovered from the next payments immediately falling due.

In the event that the Employer fails to make any payment on its respective due date, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate of 3 percentage points above the discount rates of Central Bank in the country of the currency(ies) of payment" per annum for period of delay until payment has been made in full.

2. PAYMENT PROCEDURES

The procedures to be followed in applying for certification and making payments shall be as follows:

- i. The contractor shall submit application for the payment. Each such application shall state the amount claimed and shall set forth in detail, in the order of the payment schedule, particulars of the supplies including the works executed at site and of the

equipment shipped/brought on to the site pursuant to the contract up to the date mentioned in the application.

- ii. Payment shall be made as per contract price schedules agreed based on approved Price Schedule & Unit rate of the LOA and as stipulated in the Particular Conditions of the contract, on submission of Invoice along with necessary documents duly certified by the Engineer-In-Charge of the Employer.
- iii. Payment towards Price Schedule-1 (Plant and Equipment Supplied from Abroad), may be made through Letter of Credit or RTGS / Bank Transfer. In case the contractor chooses the Letter of credit mode payment , all LC related charges and expenses towards LC opening, negotiation, LC extension, LC amendment etc. and other formalities is the sole responsibility of the contractor and the same shall be borne by the Contractor.
- iv. Payment towards Price Schedule- 2 & 4 shall be made through A/C payee Cheque to the contractor or through RTGS / Bank Transfer directly through Employer's Bank to the contractor's Bank.
- v. All the payment shall be made subject to acceptance of the Equipment/Materials/Installation and Other Services works, submission of necessary documents, submission of adequate security deposit, if any, deduction of liquidated damage, deduction towards Tax deducted at source , reverse tax mechanism for service tax and any other statutory deductions as applicable to this contract.
- vi. In applying for certification and payments, the contractor shall fulfill all the requirements specified above along with the documentary evidence required.
- vii. The currency of payment shall be as per the Price Schedule (Foreign Part- In their currency and Employers Country- Indian Rupees).

3. Payment towards Price adjustment

- 3.1 Any variation in Contract Price due to Price Adjustment provision shall be effected on presentation of calculations as per formula specified along with documentary evidence.
- 3.2 Any increase in Contract Price due to price adjustment provision occurring during the calendar quarter shall be paid Hundred Percent (100%) both for supply of material/equipment portion and Installation Services portion separately provided that the said material/equipment has been supplied and Installation Services provided and payment released there against accordingly.
- 3.3 Any reduction in Contract Price due to price adjustment provision above shall be effected by recovering 100% of the reduction amount from any of the Contractor's invoices falling immediately due for payment or any other payments.
- 3.4 Price adjustment shall not be subjected to any ceiling for supply of Material/Equipment portion and Installation Service Portion.

- 3.5 The price adjustment claims are to be submitted separately through invoice at the end of each calendar quarter along with the relevant document and referring to the original Invoices released earlier.

4. Tax Deducted at Sources (TDS):

The statutory deduction of taxes and duties at source as applicable, related to the works, shall be made by the Employer from the Contractor's bills for which the contractor cannot claim any reimbursement. TDS so deducted shall be deposited with the relevant Tax Authorities & TDS certificates shall be issued by the Employer.

5. JICA's disbursement:

JICA disbursement procedure shall be applied. If payment is made through L/C the L/C charges will be borne by OPTCL. As regards other bank charges, the charges relating to OPTCL will be borne by OPTCL and the charges relating to bidders will be borne by the bidders.

Appendix 2. Price Adjustment

This appendix 2. Price Adjustment shall be the same as the Price Adjustment Form in Section IV, Bidding Forms of the Bidding Documents. The formula, indices and coefficients shall be agreed at Contract Negotiations between the Employer and the awarded Contractor.

Price Adjustment Formula

Prices payable to the Contractor, in accordance with the Contract, shall be subject to adjustment during performance of the Contract to reflect changes in the cost of labor and material components, in accordance with the following formula:

$$P_1 = P_0 \times \left(a + b \frac{L_1}{L_0} + c \frac{M_1}{M_0} \right) - P_0$$

in which:

P_1 = adjustment amount payable to the Contractor

P_0 = Contract Price (base price)

a = percentage of fixed element in Contract Price ($a = _ \%$)

b = percentage of labor component in Contract Price ($b = _ \%$)

c = percentage of material and equipment component in Contract Price ($c = _ \%$)

L_0, M_0 = Consumer Price Index (CPI) for labor component and appropriate Wholesale Price Index (WPI) for material/equipment component of the country of origin on the Base Date

L_1, M_1 = Consumer Price Index (CPI) for labor component and appropriate Wholesale Price Index (WPI) for material/equipment component of the country of origin on the date of adjustment. The date of adjustment of the Index shall be two months prior to the date of supply (Scheduled date of supply or actual date of supply whichever is earlier) of material/equipment component and for Installation Services shall be the month (Scheduled month of Installation Services or actual month of Installation Services whichever is earlier) in which Installation Services are provided.

N.B. $a+b+c= 100\%$.

Note: For the purpose of date of adjustment, the respective indices for the corresponding month shall be considered.

“Base Date” means the date 28 days prior to the latest date for submission of the Bid, when Single-Stage Bidding procedure is used.

COMPUTATION OF PRICE ADJUSTMENT:**A. Price Adjustment for Schedule-1 & 2 (Supply):**

$$P_1 = P_0 \times \left(a + b \frac{L_1}{L_0} + c \frac{M_1}{M_0} \right) - P_0$$

in which:

P_1 = adjustment amount payable to the Contractor

P_0 = Contract Price (base price)

a = percentage of fixed element in Contract Price ($a = 10\%$)

b = percentage of labor component in Contract Price ($b = \text{---}\%$)

c = percentage of material and equipment component in Contract Price ($c = \text{---}\%$)

Where, $a+b+c=100\%$.

B. Price Adjustment for Schedule-4 (Installation Services including supply of materials):

$$P_1 = P_0 \times \left(a + b \frac{L_1}{L_0} + c \frac{M_1}{M_0} \right) - P_0$$

in which:

P_1 = adjustment amount payable to the Contractor

P_0 = Contract Price (base price)

a = percentage of fixed element in Contract Price ($a = 10\%$)

b = percentage of labor component in Contract Price ($b = \text{---}\%$)

c = percentage of material and equipment component in Contract Price ($c = \text{---}\%$)

Where, $a+b+c=100\%$.

N.B.: The above formula is applicable for Installation Services, which includes supply component, e.g. Civil Works.

C. Price Adjustment for Schedule-4 (Installation Services excluding supply of materials):

$$P_1 = P_0 \times \left(a + b \frac{L_1}{L_0} + c \frac{M_1}{M_0} \right) - P_0$$

in which:

P_1 = adjustment amount payable to the Contractor

P_0 = Contract Price (base price)

a = percentage of fixed element in Contract Price ($a = 10\%$)

b = percentage of labor component in Contract Price ($b = \text{---}\%$)

c = percentage of material and equipment component in Contract Price ($c = \text{---}\%$)

Where, $a+b+c= 100\%$.

N.B.: The above formula is applicable for Installation Services, which excludes supply component, i.e. pure erection works.

The constant factor (a) for price variation shall be 10% as indicated in formula above. However, Percentage of labour component (b) and Percentage of material and equipment component (c) in price adjustment formulas are required to be determined as mentioned below.

i) Items to be considered for price variation on the basis of ratio of labour and material component as below.

Items	Constant portion (a)	Labour Component (b)	Materials Component (c)
Structure Materials	10	23	67
Nuts & Bolts	10	23	67
Transformer	10	15	75
Conductor	10	15	75
Circuit Breaker	10	20	70
Concreting (PCC & RCC)	10	11	79

ii) Further, the following Wholesale Price Index to be considered for materials components of items mentioned against each where supplies are to be made from inside the country.

- a) Structure Materials (including Stubs & templates)- on the basis of WPI for Steel Structures
- b) Nuts & Bolts (Including Washers) for tower structures – on the basis of WPI for Bolts, screws, nuts & nails of Iron & steel.
- c) Power Transformers- on the basis of WPI of Transformers
- d) Conductor- on the basis of WPI of ACSR Conductor or Aluminium /Alloy Conductor as applicable
- e) Circuit Breaker- on the basis of WPI of Electric Switchgear Control/Starter
- f) “Reinforced Cement Concrete” (RCC) & “Plain Cement Concrete” (PCC) – on the basis of monthly WPI of All Commodities.

iii) For Labour Component, All India Average Consumer Price Index for Industrial Workers published by Labour Bureau, Ministry of Labour, Govt. of India.

iv) For supplies from outside the country, the Wholesale Price Index and Consumer Price

Index are to be considered as per Standard Bidding Document of JICA funded projects, as below,

“Consumer price Index (CPI) and Whole Sale Price Index (WPI) of the Country of Origin shall be nationally recognized indices published by the Federal/Central Govt. of that Country of Origin or by Federal/Central Bank of that Country of Origin”.

CONDITIONS OF PRICE ADJUSTMENT:

- (i) Scheduled delivery period of the quantity shall be reckoned to be the end of the period as indicated in the approved Bar Chart/PERT for the total quantity for the purpose of calculation of price adjustment. Similarly, scheduled period of Installation Services shall be reckoned to be the end of the period as indicated in the approved Bar Chart/PERT for the completion of Installation services for the purpose of calculation of price adjustment.
- (ii) If the price Adjustment amount works out to be positive, the same is payable to the Contractor by the Employer and if it works out to be negative, the same is to be recovered by the Employer from the Contractor.
- (iii) The agency has to furnish an undertaking that deduction can be made from any other bills pertaining to this project only being executed by them for this purpose.
- (iv) In the event there is negative price adjustment which can't be recovered from the bills of the Contractor in normal course, Performance Bank Guarantee can be utilized to the extent of negative price adjustment not recovered.
- (v) The above price adjustment provision shall be invoked by either party.
- (vi) No price increase shall be allowed beyond the original delivery / Installation dates unless specifically stated in the Time Extension Letter, if any, issued by the Employer. The Employer will, however, be entitled to any decrease in the Contract Price which may be caused due to lower price adjustment amount in case of delivery of Goods/ Installation beyond the original delivery / Installation dates.
- (vii) Consumer price Index (CPI) and Whole Sale Price Index (WPI) of the Country of Origin shall be nationally recognized indices published by the Federal/Central Govt. of that Country of Origin or by Federal/Central Bank of that Country of Origin. The source of indices used and the base date of indices for above CPI/WPI, as the case may be shall be indicated by the bidder which shall be finalized at the time of negotiations for signing of the contract agreement.

Appendix 3. Insurance Requirements

Insurances to be Taken Out by the Contractor

In accordance with the provisions of GC Clause 34, the Contractor shall at its expense take out and maintain in effect, or cause to be taken out and maintained in effect, during the performance of the Contract, the insurances set forth below in the sums and with the deductibles and other conditions specified. The identity of the insurers and the form of the policies shall be subject to the approval of the Employer, such approval not to be unreasonably withheld.

(a) Cargo Insurance

Covering loss or damage occurring, while in transit from the supplier's or manufacturer's works or stores until arrival at the Site, to the Facilities (including spare parts therefore) and to the construction equipment to be provided by the Contractor or its Subcontractors.

Amount [in currency(ies)]	Deductible limits [in currency(ies)]	Parties insured [names]	From [place]	To [place]
110 percent of CIF/EXW price of Plant to be supplied by the Contractor	Nil	Joint Name of Employer (Principal Insured) and Contractor	Contractor's premises	Store setup by the contractor for installation work at project site

(b) Installation All Risks Insurance

Covering physical loss or damage to the Facilities at the Site, occurring prior to Operational Acceptance of the Facilities, with an extended maintenance coverage for the Contractor's liability in respect of any loss or damage occurring during the defect liability period while the Contractor is on the Site for the purpose of performing its obligations during the defect liability period.

Amount [in currency(ies)]	Deductible limits [in currency(ies)]	Parties insured [names]
110% of the contract price of installation work	Nil	Joint Name of Employer (Principal Insured) and Contractor and Sub-Contractor

(c) Third Party Liability Insurance

Covering bodily injury or death suffered by third parties (including the Employer's Personnel) and loss of or damage to property (including the Employer's property and any parts of the Facilities that have been accepted by the Employer) occurring in connection with the supply and installation of the Facilities.

Amount [in currency(ies)]	Deductible limits [in currency(ies)]	Parties insured [names]	From [place]	To [place]
Rs. 0.5 Million per person per occasion	Nil	Contractor / Sub-Contractor / Employer	Contractor's premises	Installation work at project site

(d) Automobile Liability Insurance

Covering use of all vehicles used by the Contractor or its Subcontractors (whether or not owned by them) in connection with the supply and installation of the Facilities. Comprehensive insurance in accordance with statutory requirements.

(e) Workers' Compensation

In accordance with the statutory requirements applicable in any country where the Facilities or any part thereof is executed.

(f) Employer's Liability

In accordance with the statutory requirements applicable in any country where the Facilities or any part thereof is executed.

(g) Other Insurances

The Contractor is also required to take out and maintain at its own cost the following insurances:

Details:

Amount [in currency(ies)]	Deductible limits [in currency(ies)]	Parties insured [names]	From [place]	To [place]
To be indicated by the Contractor	Nil	Contractor / Sub- Contractor / Employer	Contractor's premises	Installation work at project site

The Employer shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to GC Sub-Clause 34.1, except for the Workers' Compensation and Employer's Liability Insurances, and the Contractor's Subcontractors shall be named as co-insureds under all insurance policies taken out by the Contractor pursuant to GC Sub-Clause 34.1, except for the Cargo, Workers' Compensation and Employer's Liability Insurances. All insurer's rights of subrogation against such co-insureds for losses or claims arising out of the performance of the Contract shall be waived under such policies.

Insurances to Be Taken Out By The Employer

The Employer shall at its expense take out and maintain in effect during the performance of the Contract the following insurances.

Details:

Amount [in currency(ies)]	Deductible limits [in currency(ies)]	Parties insured [names]	From [place]	To [place]
Nil	Nil	Nil	Nil	Nil

Appendix 4. Time Schedule

The time for Completion and commissioning of Facilities is twenty four (24) months for the package from effective date and defect liability period is twelve (12) months thereafter as per the following schedule:

Sl. No.	Activities	Completion period of activities from Zero date i.e. Effective date (in months)
1	Establishment of Project site Office	1
2	Submission of Material Procurement Schedule	2
3	Order Placement by Contractor	3
4	Engineering Activities	4
5	Manufacturing	6
6	Establishment of project field store	10
7	Supply of Material at site	11
8	Civil work of Substation and other associated system	12
9	Electrical Erection work of substation	14
10	Installation	20
11	Testing and Pre-Commissioning	21
12	Charging of Substation	23
13	Completion of all balance work of project and final handing over	23.5
14	Contract Closing.	24

Appendix 5. List of Major Items of Plant and Installation Services and List of Approved Subcontractors

An indicative list of major items of Plant and Installation Services is provided below.

The following Subcontractors and/or manufacturers are approved for carrying out the items of the Facilities indicated below. Where more than one Sub-contractor is listed, the Contractor is free to choose between them, but it must notify the Employer of its choice in good time prior to appointing any selected Subcontractor. In accordance with GC Sub-Clause 19.1, the Contractor is free to submit proposals for additional Subcontractors/Manufacturers for items from time to time. The bidder can propose any Subcontractors/Manufacturers for items, but no Subcontracts shall be placed with any such Subcontractors/ Manufacturers for items until the Subcontractors have been approved in writing by the Employer and their names have been added to this list of Approved Subcontractors.

Sl. No.	Major Items of Plant and Installation Services	Approved Subcontractors/ Manufacturers	Nationality
1.	220 / 132kV Gas Insulated Switchgear (GIS)		
2.	220/132 kV , 160MVA Auto Transformer	BHEL/ GE T&D India/ ABB/ CGL/ TOSHIBA T&D INDIA/ TBEA	
3.	220 kV CVT (part of AIS)	CGL/Mehru/Vidyut Control Systems Pvt. Ltd./Heptacare Power Industries Pvt. Ltd. / SIEMENS	
4.	216 kV LA (part of AIS)	Oblum Electrical Ind. Pvt. Ltd., CGL/ LAMCO/ ELEKTROLITES/ SHREEM	
5.	220 kV Disconnecting Switch (part of AIS)	Siemens/ ABB/ GE T&D INDIA/CGL/ G.R. Power Switchgear Ltd./ Elektrolites (Power) Pvt. Ltd./J.D. Electricals	
6.	220 kV Bus Post Insulator (part of AIS)	W.S. Industries Ltd./ CJI Porcelain Ltd./ SARVANA	
7.	220 kV CR Panel	GE T&D INDIA / ABB/ SIEMENS/ Schnider/ CG-ZIV Power Automation Solution	
8.	132 kV CVT (part of AIS)	CGL/Mehru/Vidyut Contrl Systems Pvt. Ltd./ Heptacare Power Industries Pvt. Ltd./Pragati Electrical Pvt. Ltd./Toshiba/ SIEMENS	
9.	120 kV LA (part of AIS)	Oblum Electrical Ind. Pvt. Ltd., CGL/ LAMCO/ ELEKTROLITES/ SHREEM	
10.	132 kV Disconnecting Switch (part of AIS)	Siemens/ ABB/ GE T&D INDIA/CGL/ G.R. Power Switchgear Ltd./ Elektrolites (Power) Pvt. Ltd./J.D. Electricals	
11.	132 kV Bus Post Insulator (part of AIS)	W.S. Industries Ltd./ CJI Porcelain Ltd./ SARVANA	
12.	132 kV CR Panel	GE T&D INDIA/ ABB/ SIEMENS/	

		Schnider/ CG-ZIV Power Automation Solution	
13.	132 kV cable & Cable Connection System	KEC/ TBEA/ LS CABLES/ Polycab/ Universal/ Finolex	
14.	Substation Automation system	Alstom/ ABB/Siemens/ Schneider/ GE/Toshiba/ Scope/ Danish Pvt. Ltd.	
15.	Gantry Structure, Structure for Columns Beams & Equipment	JSL/ Ashutosh/ NMTPL/ Utkal Galvanizers/ Mahadev Steel mills Pvt. Ltd./ Sawaria Pipes Pvt. Ltd./ Utkarsh Tubes & Pipes ltd./Supreme & Co Pvt. Ltd/Steel Products Ltd.	
16.	ACSR Zebra/ Moose/ ACSR with hardware, insulators & accessories etc.	GPIL/ Hindusthan Vidyut Products Ltd./ Apar/ Teracom Ltd./ Traco cable company Ltd.	
17.	Substation illumination system	Pyrotech Electronics Pvt. Ltd./ Surya Roshni Ltd.	
18.	M.S. Rod	SAIL/ TATA/ Jindal/ RNIL	

Appendix 6. Scope of Works and Supply by the Employer

The following Personnel, Facilities, works and supplies will be provided/supplied by the Employer, and the provisions of GC Clauses 10, 21 and 24 shall apply as appropriate.

All Personnel, Facilities, works and supplies will be provided by the Employer in good time so as not to delay the performance of the Contractor, in accordance with the approved Time Schedule and Program of Performance pursuant to GC Sub-Clause 18.2.

Unless otherwise indicated, all Personnel, Facilities, works and supplies will be provided free of charge to the Contractor.

Personnel	Charge to Contractor (if any)
	Nil

Facilities	Charge to Contractor (if any)
	Nil

Works	Charge to Contractor (if any)
	Nil

Supplies	Charge to Contractor (if any)
	Nil

Appendix 7. List of Documents for Approval or Review

Pursuant to GC Sub-Clause 20.3.1, the Contractor shall prepare, or cause its Subcontractor to prepare, and present to the Project Manager in accordance with the requirements of GC Sub-Clause 18.2 (Program of Performance), the following documents for

A. Approval

1. Design & Drawings
2. PERT Network
3. Work Completion Schedule
4. Bank Guarantee
5. GTP (To the extent not submitted by the Employer)
6. Vendor List including Sub-Vendor, Sub-Contractor
7. Inspection Report
8. Test Report
9. Invoice
10. JMC

B. Review

1. Physical Progress Report
2. Financial Progress Report
3. Material Reconciliation Statement

Appendix 8. Functional Guarantees

<Not Applicable>

1. General

This Appendix sets out:

- (a) the functional guarantees referred to in GC Clause 28 (Functional Guarantees);
- (b) the preconditions to the validity of the functional guarantees, either in production and/or consumption, set forth below;
- (c) the minimum level of the functional guarantees; and
- (d) the formula for calculation of liquidated damages for failure to attain the functional guarantees.

2. Preconditions

The Contractor gives the functional guarantees (specified herein) for the facilities, subject to the following preconditions being fully satisfied:

[List any conditions for the carrying out of the Guarantee Test referred to in GC Clause 25.2.]

3. Functional Guarantees

Subject to compliance with the foregoing preconditions, the Contractor guarantees are as follows:

3.1 Production Capacity: *[List here the production capacity that the Contractor is to guarantee, making sure to use, as functional guarantees, the figures offered by the Contractor in its Bid]*

and/or

3.2 Raw Materials and Utilities Consumption: *[List here the guaranteed items of consumption per unit of production (e.g., kg, tons, kcal, kWh, etc.) that the Contractor is to guarantee, making sure to use, as functional guarantees, the figures offered by the Contractor in its Bid]*

4. Failure in Guarantees and Liquidated Damages

4.1 Failure to Attain Guaranteed Production Capacity

If the production capacity of the facilities attained in the guarantee test, pursuant to GC Sub-Clause 25.2, is less than the guaranteed figure specified in para. 3.1 above, but the actual production capacity attained in the guarantee test is not less than the minimum level specified in para. 4.3 below, and the Contractor elects to pay liquidated damages to the Employer in lieu of making changes, modifications and/or additions to the Facilities, pursuant to GC Sub-Clause 28.3, then the Contractor shall pay liquidated damages at the rate of *[insert amount in the Contract currency(ies)]* for every complete one percent (1%) of the deficiency in

the production capacity of the Facilities, or at a proportionately reduced rate for any deficiency, or part thereof, of less than a complete one percent (1%).

4.2 Raw Materials and Utilities Consumption in Excess of Guaranteed Level

[To be specified in the appropriate wording for the type of Facilities, if there are consumption guarantees.]

If the actual measured figure of specified raw materials and utilities consumed per unit (or their average total cost of consumption) exceeds the guaranteed figure specified in para. 3.2 above (or their specified average total cost of consumption), but the actual consumption attained in the guarantee test, pursuant to GC Sub-Clause 25.2, is not more than the maximum level specified in para. 4.3 below, and the Contractor elects to pay liquidated damages to the Employer in lieu of making changes, modifications and/or additions to the Facilities pursuant to GC Sub-Clause 28.3, then the Contractor shall pay liquidated damages at the rate of *[amount in the Contract currency(ies)]* for every complete one percent (1%) of the excess consumption of the Facilities, or part thereof, of less than a complete one percent (1%).

[The rate of liquidated damages specified in paras. 4.1 and 4.2 above shall be at least equivalent to the rate specified in Section III, Evaluation and Qualification Criteria for the comparison of functional guarantees provided by the Bidders.]

4.3 Minimum Levels

Notwithstanding the provisions of this paragraph, if as a result of the guarantee test(s), the following minimum levels of performance guarantees (and consumption guarantees) are not attained by the Contractor, the Contractor shall at its own cost make good any deficiencies until the Facilities reach any of such minimum performance levels, pursuant to GC Sub-Clause 28.2:

- (a) production capacity of the Facilities attained in the guarantee test: ninety-five percent (95%) of the guaranteed production capacity (the values offered by the Contractor in its Bid for functional guarantees represents 100%);

and/or

- (b) average total cost of consumption of all the raw materials and utilities of the Facilities: one hundred and five percent (105%) of the guaranteed figures (the figures offered by the Contractor in its Bid for functional guarantees represents 100%).

4.4 Limitation of Liability

Subject to para. 4.3 above, the Contractor's aggregate liability to pay liquidated damages for failure to attain the functional guarantees shall not exceed five percent (5%) of the Contract Price.

Performance Security Form - Bank Guarantee

[*Guarantor letterhead or SWIFT identifier code*]

Beneficiary: [*insert name and address of Employer*]

Date: [*insert date of issue*]

PERFORMANCE GUARANTEE No.: [*insert guarantee reference number*]

Guarantor: [*insert name and address of place of issue, unless indicated in the letterhead*]

We have been informed that [*insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture*] (hereinafter called “the Applicant”) has entered into Contract No. [*insert reference number of the Contract*] dated [*insert date*] with the Beneficiary, for the execution of [*insert name of Contract and brief description of Facilities*]₁ (hereinafter called “the Contract”).

Furthermore, we understand that, according to the conditions of the Contract, a performance guarantee is required.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of [*insert amount in words*] ([*insert amount in figures*])¹, such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of the Beneficiary’s complying demand supported by the Beneficiary’s statement, whether in the demand itself or in a separate signed document accompanying or identifying the demand, stating that the Applicant is in breach of its obligation(s) under the Contract, without the Beneficiary needing to prove or to show grounds for its demand or the sum specified therein.

This guarantee shall be reduced by half upon our receipt of:

- (a) a copy of the Operational Acceptance Certificate; or
- (b) a registered letter from the Applicant (i) attaching a copy of its notice requesting issuance of the Operational Acceptance Certificate and (ii) stating that the Project Manager has failed to issue such Certificate within the time

¹ The Guarantor shall insert an amount representing the percentage of the Contract Price specified in the Letter of Acceptance and denominated either in the currency(ies) of the Contract or a freely convertible currency acceptable to the Beneficiary.

required or provide in writing justifiable reasons why such Certificate has not been issued, so that Operational Acceptance is deemed to have occurred.

This guarantee shall expire no later than the earlier of:¹

- (a) twelve (12) months after our receipt of either (a) or (b) above; or
- (b) the ____ day of _____, 2____.²

Consequently, any demand for payment under this guarantee must be received by the Guarantor at its office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458³, except that subparagraph (ii) of Sub-article 20(a) is hereby excluded.

[signature(s)]

[Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.]

¹ This text shall be revised as and where necessary to take into account (i) partial acceptance of the Facilities in accordance with GC Sub-Clause 25.4.

² Insert the date twenty-eight (28) days after the expected expiration date of the Defect Liability Period. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: "The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [*e.g. six months*], in response to the Employer's written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee."

³ As the case may be, ICC Publication No. 758 (or subsequent ICC Publications) may be used. In such cases, modify the Publication number.

Bank Guarantee Form for Advance Payment

[*Guarantor letterhead or SWIFT identifier code*]

Beneficiary: [*insert name and address of the Employer*]

Date: [*insert date of issue*]_____

ADVANCE PAYMENT GUARANTEE No.: [*insert guarantee reference number*]

Guarantor: [*insert name and address of place of issue, unless indicated in the letterhead*]

We have been informed that [*insert name of Contractor, which in the case of a joint venture shall be the name of the joint venture*] (hereinafter called “the Applicant”) has entered into Contract No.[*insert reference number of the Contract*] dated [*insert date*] with the Beneficiary, for the execution of [*insert name of Contract and brief description of Facilities*] (hereinafter called “the Contract”).

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum of [*insert amount in words*] ([*insert amount in figures*]) is to be made against an advance payment guarantee.

At the request of the Applicant, we as Guarantor, hereby irrevocably undertake to pay the Beneficiary any sum or sums not exceeding in total an amount of [*insert amount in words*]/([*insert amount in figures*]¹) upon receipt by us of the Beneficiary’s first demand in writing accompanied by a written statement stating that the Applicant is in breach of its obligation under the Contract because the Applicant used the advance payment for purposes other than toward the execution of the Works.

A demand under this guarantee may be presented as from the presentation to the Guarantor of a certificate from the Beneficiary’s bank stating that the advance payment referred to above has been credited to the Applicant on its account number [*insert number*] at [*insert name and address of Applicant’s bank*].

The maximum amount of this guarantee shall be progressively reduced in proportion to the value of each part-shipment or part-delivery of plant and equipment to the site, as indicated in copies of the relevant shipping and delivery documents that shall be presented to the Guarantor. This guarantee shall expire, at the latest, upon the Guarantor’s receipt of documentation indicating full repayment by the Applicant of the amount of the advance

¹ *The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract, or in a freely convertible currency acceptable to the Employer.*

payment, or on the ___ day of _____, 2___, whichever is earlier¹. Consequently, any demand for payment under this guarantee must be received by the Guarantor at its office on or before that date.

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458².

[signature(s)]

[Note: All italicized text (including footnotes) is for use in preparing this form and shall be deleted from the final product.]

[Note: For Bank Guarantee (BG), the following listed banks/branches may be considered for OPTCL convenience.

Sl. No.	Bank Name	Address	IFSC
1	Union Bank Of India	Main Branch, Ashok Nagar, BBSR	UBIN0538086
2	State Bank of India	IDCO Tower, Janpath BBSR	SBIN0007891
3	Uco Bank	Main Branch, Bapuji Nagar, BBSR	UCBA0000470
4	United Bank of India	Market Building, BBSR	UTBI0BBS414
5	Axis Bank	Satya Nagar, BBSR	UTIB0000048
6	IDBI Bank Ltd.	Janpath, Unit-IX, BBSR	IBKL0000042
7	Andhra Bank	Bapuji Nagar, BBSR	ANDB0000048
8	Syndicate Bank	Vanivihar, Saheed Nagar, BBSR	SYNB0008004
9	ICICI Bank Ltd.	Saheed Nagar, BBSR	ICIC0002423
10.	Bank of India	Main Branch, Ashok Nagar, BBSR	BKID0005550

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- 1 Insert the expected expiration date of the Time for Completion. The Employer should note that in the event of an extension of the time for completion of the Contract, the Employer would need to request an extension of this guarantee from the Guarantor. Such request must be in writing and must be made prior to the expiration date established in the guarantee. In preparing this guarantee, the Employer might consider adding the following text to the form, at the end of the penultimate paragraph: “The Guarantor agrees to a one-time extension of this guarantee for a period not to exceed [*e.g. six months*], in response to the Employer’s written request for such extension, such request to be presented to the Guarantor before the expiry of the guarantee.”
 - 2 As the case may be, ICC Publication No. 758 (or subsequent ICC Publications) may be used. In such cases, modify the Publication number.

1 The starting date should be revised to “request for price quotation,” if the Borrower is selected through the International Shopping”; to "appointment", if a contractor is selected through the Direct Contracting; or “Commencement of actual selection/bidding process”, if the Borrower wishes to adopt procurement procedures other than ICB, Limited International Shopping, International Shopping, or Direct Contracting.