



ODISHA POWER TRANSMISSION CORPORATION LIMITED

(A Govt. Of Odisha Undertaking)

Regd. Office, Janpath, Bhubaneswar -751022

**BIDDING DOCUMENTS
for
Engineering, Supply, Erection and Commissioning
of 33/11 kV GIS Sub-Stations with 33kV and 11kV
network with SCADA-DMS & LT network
(Package-II)**

**UNDER
ASIAN DEVELOPMENT BANK LOAN No. 47379-IND
For
Odisha Power Sector Emergency Assistance Project
(OPSEAP)**

- **Invitation for Bids No.(NIT No.): CPC-NIT/OPTCL/OPSEAP/32/2013-14
Dated.03.03.2014**
- **ICB Document No. : OPTCL/ADB-OPSEAP/ 2014/Package-II**
- **Employer: Odisha Power Transmission Corporation Limited,
Bhubaneswar, Odisha**
- **Country: INDIA**

For details, Please visit the Official
Website of OPTCL “www.optcl.co.in”

Preface

This Bidding Document has been prepared by Odisha Power Transmission Corporation Limited (OPTCL), a Government of Odisha Undertaking for Engineering, Supply, Erection and Commissioning of 33/11 kV GIS Sub-Stations and 33kV, 11kV & LT Network line (Package-II) of Odisha Power Sector Emergency Assistance Project (OPSEAP) proposed to be funded by ADB and is based on the Standard Bidding Document for Procurement of Plant – Design, Supply and Install (SBD Plant) issued by the Asian Development Bank dated November 2009.

ADB's SBD Plant has the structure and the provisions of the Master Procurement Document entitled "Procurement of Plant – Design, Supply and Install", prepared by multilateral development banks and other public international financial institutions except where ADB-specific considerations have required a change.

Table of Contents - Summary Description

PART I BIDDING PROCEDURES

Section 1 - Instructions to Bidders (ITB) ----- 1-1

This section specifies the course of actions to be taken by Bidders in the preparation and submission of their Bids following a Two-Stage bidding procedure. Information is also provided on the submission, opening, and evaluation of bids and on the award of contract.

Section 2 - Bid Data Sheet (BDS) ----- 2-1

This section consists of provisions that are specific to each procurement and supplement the information or requirements included in Section 1 - Instructions to Bidders.

Section 3 - Evaluation and Qualification Criteria (EQC) ----- 3-1

This section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders. In accordance with ITB 25, ITB 48 and ITB 50, no other factors, methods or criteria shall be used. The Bidder shall provide all the information requested in the forms included in Section 4 (Bidding Forms).

Section 4 - Bidding Forms (BDF) ----- 4-1

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Bid.

Section 5 - Eligible Countries (ELC) ----- 5-1

This section contains the list of eligible countries.

REQUIREMENTS

Section 6 - Employer's Requirements (ERQ) ----- 6-1

This Section contains the Specification, the Drawings, and supplementary information that describe the plant and services to be procured.

CONDITIONS OF CONTRACT AND CONTRACT FORMS

Section 7 - General Conditions of Contract (GCC) ----- 7-1

This Section contains the general clauses to be applied in all contracts. These Conditions are subject to the variations and additions set out in Section 8 (Special Conditions of Contract).

Section 8 - Special Conditions of Contract (SCC) ----- 8-1

This Section supplements the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. The clause number of the SCC is the corresponding clause number of the GCC.

Section 9 - Contract Forms (COF) ----- 9-1

This Section contains the Letter of Acceptance, the Contract Agreement and Appendices to the Contract Agreement which, once completed, will form part of the Contract.

PART II TECHNICAL SPECIFICATION

PART III PRICE SCHEDULE



ODISHA POWER TRANSMISSION CORPORATION LIMITED
(A GOVERNMENT OF ODISHA UNDERTAKING)
Janpath, Bhoinagar, Bhubaneswar-751022, Odisha.

No. **CPC- NIT/OPTCL/OPSEAP/ 32 /2013-14**

Dt: **03/03/2014**

Invitation for Bids

- **Loan No. 47379 IND Odisha Power Sector Emergency Assistance Project – Package – II**
- **Bid Identification No. CPC- ICB Document No: OPTCL/ADB - OPSEAP /2014/Package-II**
- **Dead Line for Submission of Bid: - 25.04.2014 up to 14.30 Hrs.**
- **Date & Time for Financial Bid Opening:-25.04.2014 at 15.00 Hrs.**

1. India has applied a loan from Asian Development Bank (ADB) towards the cost of proposed Odisha Power Sector Emergency Assistance Project – Package -II; part of this loan will be used for payment under the contract named above. Bidding is open to bidders from eligible source country of the ADB.

2. The contract for 33 kV Sub-Station Work (Lot- 1)

“Engineering, Designing, Supply, Erection, testing and Commissioning of 33/11 kV GIS Sub-Stations with 33 kV Network” with SCADA for three towns viz. Berhampur, Chhatrapur and Gopalpur in SOUTHCO Discom area.

Bidders having requisite capacity and the capability to execute the contract within the stipulated period of **18** months are advised to participate.

3. The contract for 11kV and LT Network Work (Lot- 2):

“Engineering, Designing, Supply, Erection, testing and Commissioning of 11/0.43 kV Distribution S/s, 11 kV network with LT network for three towns viz. Berhampur, Chhatrapur and Gopalpur in SOUTHCO DISCOM area.

Bidders having requisite capacity and the capability to execute the contract within the stipulated period of **18** months are advised to participate.

4. International competitive bidding will be conducted in accordance with the ADB's Single Stage **Two Envelop Bidding Procedure.**

5. To obtain further information, inspect, purchase and submit the bidding document, bidder should contact:

Sr. General Manager (CPC),

Odisha Power Transmission Corporation Limited,
1st Floor Multistoried Building, Bhoinagar, Janpath, Bhubaneswar.-751022
(Tel: 0674-2541801 & Fax: 0674-2542964), E Mail id- sgm.cpc@optcl.co.in

6. The bidder may purchase the bidding document from above address by paying the non-refundable fee of Rs. 10500/- or US\$ 160/- through demand draft from a reputable bank having branch in India or correspondent bank in India in favour of DDO, OPTCL, Bhubaneswar payable at Bhubaneswar. Alternatively the bidder may also download the bidding document from our web site <http://www.optcl.co.in> and required to deposit non-refundable fee of Rs.5250/- or US \$ 80/- through demand draft in favour of DDO, OPTCL, Bhubaneswar payable at Bhubaneswar before submission of bidding document towards the cost of bidding document.

7. Deliver your bid:-

- a. To the address above
- b. On or before: **25.04.2014 up to 14.30 Hrs.**
- c. Together with a bid security as per bidding document.

8. Late bid will be rejected. Bids will be opened on Dt.25.04.02.2014 at 15.00 Hrs. in the presence of bidder's representatives who chose to attend at the address above.

9. OPTCL, Bhubaneswar will not be responsible for costs or expenses incurred by bidders in connection with the delivery or preparation of bid.

10. When comparing Bids, there shall not be any margin of preference for domestic Bidders.

Any addendum / corrigendum to this Tender Notice shall be uploaded in the OPTCL website only

Sr. General Manager (CPC)

PART- I

Section 1 - Instructions to Bidders

Table of Contents

A.	General	9
1.	Scope of Bid.....	9
2.	Source of Funds.....	9
3.	Corrupt Practices	9
4.	Eligible Bidders	10
5.	Eligible Plant and Services	11
B.	Contents of Bidding Document	12
6.	Sections of Bidding Document	12
7.	Clarification of Bidding Document, Site Visit, Pre-Bid Meeting.....	12
8.	Amendment of Bidding Document.....	13
C.	Preparation of Bids	13
9.	Cost of Bidding.....	13
10.	Language of Bid	13
11.	Documents Comprising the Bid	14
12.	Letter of Bid and Schedules	15
13.	Alternative Bids	15
14.	Documents Establishing the Eligibility of Plant and Services	15
15.	Documents Establishing the Eligibility and Qualifications of the Bidder	15
16.	Documents Establishing Conformity of the Plant and Services.....	15
17.	Technical Proposal, Subcontractors	16
18.	Bid Prices and Discounts.....	16
19.	Currencies of Bid and Payment.....	19
20.	Period of Validity of Bids	19
21.	Bid Security	19
22.	Format and Signing of Bid	20

D.	Submission and Opening of Bids	21
23.	Submission, Sealing and Marking of Bids.....	21
24.	Deadline for Submission of Bids	22
25.	Late Bids	22
26.	Withdrawal, Substitution, and Modification of Bids.....	22
27.	Bid Opening.....	22
E.	Evaluation and Comparison of Bids.....	24
28.	Confidentiality	24
29.	Clarification of Bids.....	24
30.	Deviations, Reservations, and Omissions.....	25
31.	Preliminary Examination of Technical Bids	25
32.	Responsiveness of Technical Bid	25
33.	Nonmaterial	26
	Nonconformities	26
34.	Detailed Evaluation of Technical Bids.....	26
35.	Eligibility and Qualification of the Bidder	27
36.	Correction of Arithmetical Errors.....	27
37.	Conversion to Single Currency	28
38.	Margin of Preference	28
39.	Evaluation of Price Bids.....	28
40.	Comparison of Bids	28
41.	Employer's Right to Accept Any Bid, and to Reject Any or All Bids	29
F.	Award of Contract.....	29
42.	Award Criteria.....	29
43.	Notification of Award.....	29
44.	Signing of Contract.....	29
45.	Performance Security	29

Section 1 - Instructions to Bidders

A. General

- 1. Scope of Bid**
 - 1.1 In connection with the Invitation for Bids indicated in the Bid Data Sheet (BDS), the Employer, as indicated in the BDS, issues this Bidding Document for the procurement of plant and services as specified in Section 6 (Employer's Requirements). The name, identification, and number of lots (contracts) of the International Competitive Bidding (ICB) are provided in the BDS.
 - 1.2 Unless otherwise stated, throughout this Bidding Document definitions and interpretations shall be as prescribed in Section 7 (General Conditions of Contract).
- 2. Source of Funds**
 - 2.1 The Borrower or Recipient (hereinafter called "Borrower") indicated in the BDS has applied for or received financing (hereinafter called "funds") from the Asian Development Bank (hereinafter called "ADB") toward the cost of the project named in the BDS. The Borrower intends to apply a portion of the funds to eligible payments under the contract(s) for which this Bidding Document is issued.
 - 2.2 Payments by ADB will be made only at the request of the Borrower and upon approval by ADB in accordance with the terms and conditions of the financing agreement between the Borrower and ADB (hereinafter called the Loan Agreement), and will be subject in all respects to the terms and conditions of that Loan Agreement. No party other than the Borrower shall derive any rights from the Loan Agreement or have any claim to the funds.
- 3. Corrupt Practices**
 - 3.1 ADB's Anticorruption Policy requires that borrowers (including beneficiaries of ADB-financed activity), as well as bidders, suppliers, and contractors under ADB-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the ADB:
 - (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
 - (ii) "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
 - (iii) "coercive practice" means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - (iv) "collusive practice" means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party;

- (b) will reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract; and
- (c) will sanction a firm or an individual, at any time, in accordance with ADB's Anticorruption Policy and Integrity Principles and Guidelines (both as amended from time to time), including declaring ineligible, either indefinitely or for a stated period of time, to participate in ADB-financed or ADB-administered activities or to benefit from an ADB-financed or ADB-administered contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive or other prohibited practices.

3.2 Furthermore, Bidders shall be aware of the provision stated in the Conditions of Contract (GCC 9.6 and 42.2.1 (c)).

4. Eligible Bidders

4.1 A Bidder may be a private entity or a government-owned entity - subject to ITB 4.5 - or any combination of such entities with the intent to enter into an agreement supported by a letter of intent or under an existing agreement in the form of a joint venture, consortium, or association (JV). In the case of a JV:

- (a) all partners shall be jointly and severally liable, 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 partners of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.

4.2 A Bidder, and all partners constituting the Bidder, shall have a nationality of an eligible country, in accordance with Section 5 (Eligible Countries). A Bidder shall be deemed to have the nationality of a country if the Bidder is a national or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of that country. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.

4.3 A Bidder shall not have a conflict of interest. All Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if, including but not limited to:

- (a) they have controlling shareholders in common; or
- (b) they receive or have received any direct or indirect subsidy from any of them; or
- (c) they have the same legal representative for purposes of this bid; or
- (d) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to material

information about or improperly influence the bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or

- (e) a Bidder participates in more than one bid in this bidding process, either individually or as a partner in a joint venture, except for alternative offers permitted under ITB Clause 13. This will result in the disqualification of all Bids in which it is involved. However, subject to any finding of a conflict of interest in terms of ITB 4.3 (a) - (d) above, this does not limit the participation of a Bidder as a subcontractor in another bid or of a firm as a subcontractor in more than one bid; or
- (f) a Bidder or any affiliated entity, participated as a consultant in the preparation of the design or technical specifications of the plant and services that are the subject of the bid.

4.4 A firm shall not be eligible to participate in any procurement activities under an ADB-financed or ADB-supported project while under sanction by ADB pursuant to its Anticorruption Policy (see ITB 3), whether such sanction was directly imposed by ADB, or imposed by ADB pursuant to the Agreement for Mutual Enforcement of Debarment Decisions. A bid from a sanctioned or cross-debarred firm will be rejected.

4.5 Government-owned entities in the Borrower's country shall be eligible only if they can establish that they

(a) are legally and financially autonomous,

(b) operate under the principles of commercial law, and

(c) are not dependent agencies of the Employer or the Borrower.

4.6 Bidders shall provide such evidence of their continued eligibility satisfactory to the Employer, as the Employer shall reasonably request.

4.7 Firms of a country shall be excluded if, by an act of compliance with a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations, the Borrower's country prohibits any import of goods from that country or any payments to persons or entities in that country.

4.8 In case a prequalification process has been conducted prior to the bidding process, this bidding is open only to prequalified Bidders.

5. Eligible Plant and Services

5.1 The plant and services to be supplied under the Contract shall have their origin in eligible source countries as defined in ITB 4.2 above and all expenditures under the Contract will be limited to such plant and 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 in its basic characteristics or in purpose or utility

from its components.

B. Contents of Bidding Document

- 6. Sections of Bidding Document**
- 6.1 The Bidding Document consists 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 I Bidding Procedures**
- Section 1 - Instructions to Bidders (ITB)
 - Section 2 - Bid Data Sheet (BDS)
 - Section 3 - Evaluation and Qualification Criteria (EQC)
 - Section 4 - Bidding Forms (BDF)
 - Section 5 - Eligible Countries (ELC)
- Requirements**
- Section 6 - Employer's Requirements (ERQ)
- Conditions of Contract and Contract Forms**
- Section 7 - General Conditions of Contract (GCC)
 - Section 8 - Special Conditions of Contract (SCC)
 - Section 9 - Contract Forms (COF)
- PART II Technical Specification**
- PART III Price Schedule**
- 6.2 The Invitation for Bids issued by the Employer is not part of the Bidding Document.
- 6.3 The Employer is not responsible for the completeness of the Bidding Document and its addenda, if they were not obtained directly from the source stated by the Employer in the Invitation for Bids.
- 6.4 The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the bid.
- 7. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting**
- 7.1 A prospective Bidder requiring any clarification of the Bidding Document shall contact the Employer in writing at the Employer's address indicated 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 to any request for clarification, provided that such request is received no later than twenty-one (21) days prior to the deadline for submission of bids. The Employer's response shall be in writing with copies to all Bidders who have acquired the Bidding Document in accordance with ITB 6.3, including a description of the inquiry but without identifying its source. Should the Employer deem it necessary to amend the Bidding Document as a result of a request for clarification, it shall do so 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 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 provided for 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.
- 7.5 The Bidder is requested, as far as possible, to submit any questions in writing, to reach the Employer not later than one week before the pre-bid meeting.
- 7.6 Minutes of the pre-bid meeting, including the text of the questions raised, 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 Document in accordance with ITB 6.3. Any modification to the Bidding Document 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.
- 7.7 Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.

8. Amendment of Bidding Document

- 8.1 At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Document by issuing addenda.
- 8.2 Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document from the Employer in accordance with ITB 6.3.
- 8.3 To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may, at its discretion, 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 English

language. 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 into the English language, 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 or Bid Securing Declaration, in accordance with ITB 21;
- (c) alternative bids, if permissible, in accordance with ITB 13;
- (d) written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with ITB 22.2;
- (e) documentary evidence establishing in accordance with ITB 14.1 that the plant and services offered by the Bidder in its bid or in any alternative bid, if permitted, are eligible;
- (f) documentary evidence in accordance with ITB 15 establishing the Bidder's eligibility and qualifications to perform the contract if its Bid is accepted;
- (g) Technical Proposal in accordance with ITB 17.
- (h) documentary evidence establishing in accordance with ITB 16 that the plant and services offered by the Bidder conform to the Bidding Document;
- (i) in the case of a bid submitted by a JV, JV agreement, or letter of intent to enter into a JV including a draft agreement, indicating at least the parts of the Plant to be executed by the respective partners;
- (j) List of subcontractors, in accordance with ITB 17.2; and
- (k) 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 schedules as required, including Price Schedules, in accordance with ITB 12 and 18;;
- (c) alternative price bids, if permissible, in accordance with ITB 13; and
- (d) any other document required in the BDS

- | | |
|--|--|
| 12. Letter of Bid and Schedules | 12.1 The Letters of Technical Bid and Price Bid, and the Schedules, and all documents listed under ITB 11, shall be prepared using the relevant forms furnished in Section 4 (Bidding Forms). The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested. |
| 13. Alternative Bids | <p>13.1 Unless otherwise indicated in the BDS, alternative bids shall not be considered. If they are allowed, the BDS will also indicate whether they are permitted in accordance with ITB 13.3, or invited in accordance with ITB13.2 and/or ITB 13.4.</p> <p>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 3 (Evaluation and Qualification Criteria).</p> <p>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 document 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.</p> <p>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 6 (Employer's Requirements). Technical alternatives for the specific parts of the facilities that comply with the performance and technical criteria specified for the plant and services shall be considered by the Employer on their own merits, pursuant to ITB 32.</p> |
| 14. Documents Establishing the Eligibility of Plant and Services | 14.1 To establish the eligibility of the plant and services in accordance with ITB Clause 5, Bidders shall complete the country of origin declarations in the Price Schedule Forms, included in Section 4 (Bidding Forms). |
| 15. Documents Establishing the Eligibility and Qualifications of the Bidder | <p>15.1 To establish its eligibility and qualifications to perform the Contract in accordance with Section 3 (Evaluation and Qualification Criteria), the Bidder shall provide the information requested in the corresponding information sheets included in Section 4 (Bidding Forms).</p> <p>15.2 Domestic Bidders, individually or in joint ventures, applying for eligibility for domestic preference shall supply all information required to satisfy the criteria for eligibility as described in ITB 38.</p> |
| 16. Documents | 16.1 The documentary evidence of the conformity of the plant and services to |

**Establishing
Conformity of
the Plant and
Services**

the Bidding Document may be in the form of literature, drawings and data, and shall furnish:

- (a) a detailed description of the essential technical and performance characteristics of the plant and services, including the functional guarantees of the proposed plant and services, in response to the Specification;
- (b) a list giving full particulars, including available sources, of all spare parts and special tools necessary for the proper and continuing functioning of the plant for the period named in the BDS, following completion of plant and services in accordance with provisions of contract; and
- (c) a commentary on the Employer's Specification and adequate evidence demonstrating the substantial responsiveness of the plant and services to those specifications. Bidders shall note that standards for workmanship, materials and equipment designated by the Employer in the Bidding Document 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 bid, provided that it demonstrates to the Employer's satisfaction that the substitutions are substantially equivalent or superior to the standards designated in the Specification.

- 16.2 In order to facilitate evaluation of Technical Bids, deviations, if any, from the terms and conditions or Specification shall be listed as indicated in ITB 18.2.

**17. Technical
Proposal,
Subcontractors**

- 17.1 The Bidder shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in Section 4 (Bidding Forms), in sufficient detail to demonstrate the adequacy of the Bidders' proposal to meet the work requirements and the completion time.
- 17.2 For major items of plant and services as listed by the Employer in Section 3 (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 bid 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 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 services to be provided by the Subcontractor comply with the requirements of ITB 5 and ITB 15.1

**18. Bid Prices and
Discounts**

- 18.1 Unless otherwise specified in the BDS and/or Section 6 (Employer's Requirements), bidders shall quote for the entire plant and 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 document 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 document, 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 Document, 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 document. If a Bidder wishes to make a deviation, such deviation shall be listed in the relevant form in Section 4 (Bidding Forms). The Bidder shall also provide the additional price if any, for withdrawal of the deviation.

18.3 Bidders shall give a breakdown of the prices in the manner and detail called for in the Price Schedules included in Section 4 (Bidding Forms). Where no different Price Schedules are included in the Bidding Document, bidders shall present their prices in the following manner: Separate numbered Schedules included in Section 4 (Bidding Forms) shall be used for each of the following elements. The total amount from each Schedule (1 to 4) shall be summarized in a Grand Summary (Schedule 5) giving the total bid price(s) to be entered in the Bid Form.

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: Grand Summary (Schedule Nos. 1 to 4)

Schedule No. 6: Spare Parts

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 and Other Services.

18.4 In the Schedules, bidders shall give the required details and a breakdown of their prices as follows:

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

- (i) the price of the plant shall be quoted as per Incoterms specified in the BDS
 - (ii) all custom duties and other taxes paid or payable in the Employer's country on the plant if the contract is awarded to the Bidder; and
 - (iii) the total price for the plant
- (b) Plant supplied from within the Employer's country (Schedule No. 2):
- (i) The price of the plant shall be quoted as per Incoterms specified in the BDS,
 - (ii) Sales tax and all other taxes payable in the Purchaser's country on the plant if the contract is awarded to the Bidder, and
 - (iii) The total price for the plant.
- (c) Design Services. (Schedule No. 3).
- (d) Installation and other Services shall be quoted separately (Schedule No. 4) and shall include rates or prices for local transportation, 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 Document, 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 6) as specified in either subparagraph (a) or (b) above in accordance with the origin of the spare parts.

18.5 The current edition of Incoterms, published by the International Chamber of Commerce shall govern.

18.6 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 nonresponsive 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 4 (Bidding Forms).

- 18.7 If so indicated in BDS 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.

19. Currencies of Bid and Payment

- 19.1 The currency(ies) of the bid shall be, as specified in the BDS.
- 19.2 Bidders shall indicate in the Schedule of Prices and the Letter of Bid the portion of the bid price that corresponds to expenditures incurred in the currency of the Employer's country.
- 19.3 Bidders expecting to incur expenditures in other currencies for inputs to the Facilities supplied from outside the Employer's country and wishing to be paid accordingly, may indicate in the Schedule of Prices and the Letter of Bid up to three foreign currencies of their choice.

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. A bid valid for a shorter period shall be rejected by the Employer as nonresponsive.
- 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. If a bid security is requested in accordance with ITB 21, it shall also be extended for a corresponding 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.

21. Bid Security

- 21.1 Unless otherwise specified in the BDS, the Bidder shall furnish as part of its bid, a Bid Securing Declaration or a bid security in original form and in the amount and currency as specified in the BDS.
- 21.2 A Bid Securing Declaration shall use the form included in Section 4 (Bidding Forms). The Employer will declare a Bidder ineligible to be awarded a Contract for a specified period of time if the Bid Securing Declaration is executed, as provided in the BDS.
- 21.3 The bid security shall be a demand guarantee, at the Bidder's option, in any of the following forms:
- (a) an unconditional bank guarantee; or
 - (b) an irrevocable letter of credit; or
 - (c) a cashier's or certified check;

from a reputable source from an eligible country. The bid security shall be submitted either using the Bid Security Form included in Section 4 (Bidding Forms), in the case of a bank guarantee, or in another format approved by the Employer. In either case, the form must include the complete name of the Bidder. The bid security shall be valid for twenty-eight days (28) beyond the original validity period of the bid, or beyond any period of extension if requested under ITB 20.2.

- 21.4 If a bid security is specified, any bid not accompanied by a substantially compliant bid security or bid securing declaration shall be rejected by the Employer as nonresponsive.
- 21.5 If a bid security is specified pursuant to ITB 21.1, the bid security of the unsuccessful Bidder shall be returned as promptly as possible upon the successful Bidder's furnishing of the performance security pursuant to ITB 45.
- 21.6 If a bid security is specified pursuant to ITB 21.1, the bid security of successful Bidders shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required performance security.
- 21.7 The bid security may be forfeited or the bid securing declaration executed:
 - (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bid Form, except as provided in ITB 20.2 or
 - (b) if the successful Bidder fails to:
 - (i) Sign the Contract in accordance with ITB 44;
 - (ii) Furnish a performance security in accordance with ITB 45; or
 - (iii) accept the arithmetical corrections of its Bid in accordance with ITB 36.
- 21.8 The Bid Security or the Bid Securing Declaration of a JV shall be in the name of the JV that submits the bid. If the JV has not been legally constituted at the time of bidding, the Bid Security or the Bid Securing Declaration shall be in the names of all future partners as named in the letter of intent referred to in ITB 4.1.

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 comprising the Bid as described in ITB 11 and clearly mark it "ORIGINAL - TECHNICAL BID" and "ORIGINAL - PRICE BID". Alternative bids, if permitted in accordance with ITB 13, shall be clearly marked "ALTERNATIVE". In addition, the Bidder shall submit copies of the bid, in the number specified in the BDS and clearly mark each of 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 A bid submitted by a JV shall be signed so as to be legally binding on all partners.
- 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. When so specified in the BDS, bidders shall have the option of submitting their bids electronically. Procedures for submission, sealing and marking are as follows:
 - (a) Bidders submitting bids by mail or by hand shall enclose the original and each copy of the Bid, including alternative bids, if permitted in accordance with ITB 13, in separate sealed envelopes, duly marking the envelopes as "ORIGINAL", "ALTERNATIVE" and "COPY." These envelopes containing the original and the copies shall then be enclosed in one single envelope. The rest of the procedure shall be in accordance with ITB sub-Clauses 23.2 and 23.3.
 - (b) Bidders submitting bids electronically shall follow the electronic bid submission procedures specified in the BDS.
- 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 indicated in the 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 Bid, in accordance with ITB Sub-Clause 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 Sub-Clause 27.7.
- 23.5 Alternative Bids, if permissible in accordance with ITB Clause 13, shall be prepared, sealed, marked, and delivered in accordance with the provisions of ITB Clauses 20 and 21, with the inner envelopes marked in

addition “ALTERNATIVE NO....” as appropriate.

- 23.6 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 indicated in the BDS.
- 24.2 The Employer may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Document 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 bid 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 withdrawals 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 or any extension thereof.

27. Bid Opening

- 27.1 The Employer shall conduct the opening of Technical Bids in the presence of Bidders’ designated representatives who choose to attend, and at the address, date and time specified in the BDS. Any specific electronic bid opening procedures required if electronic bidding is permitted in accordance with ITB Sub-clause 23.1, shall be as specified in the BDS. The Price Bids will remain unopened and will be held in custody of the Employer until the specified time of their opening. If the Technical Bid and the Price Bid are submitted together in one envelope, the Employer may reject the entire Bid. Alternatively, the Price Proposal may be immediately resealed for later evaluation.

- 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 bid opening.
- 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, read out, and recorded. Substitution Price Bid will remain unopened in accordance with ITB Sub-Clause 27.1. No envelope shall be substituted unless the corresponding Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.
- 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 and recorded at the opening of Technical Bids. Only the Technical Bids, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Price Bids, both Original as well as Modification, will remain unopened in accordance with ITB Sub-Clause 27.1.
- 27.5 All other envelopes holding the Technical Bids shall be opened one at a time, and the following read out and recorded:
- (a) the name of the Bidder;
 - (b) whether there is a modification or substitution;
 - (c) the presence of a Bid Security, if required; and
 - (d) any other details as the Employer may consider appropriate.
- Only Technical Bids and alternative Technical Bids read out and recorded at bid opening shall be considered for evaluation. No Bid shall be rejected at the opening of Technical Bids except for late bids, in accordance with ITB Sub-Clause 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; and alternative proposals; and the presence or absence of a bid security or a bid securing declaration, if one was required. 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 who submitted bids in time, and posted online when electronic bidding is permitted.
- 27.7 At the end of the evaluation of the 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. Bidders shall be given reasonable notice of the opening of Price Bids.

- 27.8 The Employer will notify Bidders in writing who have been rejected on the grounds of their Technical Bids being substantially non-responsive to the requirements of the Bidding Document 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 and the following read out and recorded:
- (a) the name of the Bidder;
 - (b) whether there is a modification or substitution;
 - (c) the Bid Prices, including any discounts and alternative offers; and
 - (d) any other details as the Employer may consider appropriate.
- Only Price Bids, discounts, and alternative offers 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), any discounts, and alternative offers. 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 who submitted bids in time, and posted online when electronic bidding is permitted.

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.
- 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 should 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. 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 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 Document;
- (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and
- (c) "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.

31. Preliminary Examination of Technical Bids

31.1 The Employer shall examine the Technical Bid to confirm that all documents and technical documentation requested in ITB Sub-Clause 11.2 have been provided, and to determine the completeness of each document submitted. If any of these documents or information is missing, the Bid may be rejected.

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 offer shall be rejected.

- (a) Letter of Technical Bid;
- (b) written confirmation of authorization to commit the Bidder;
- (c) Bid Security, if applicable; and
- (d) Technical Proposal in accordance with ITB 17.

32. Responsiveness of Technical Bid

32.1 The Employer's determination of a bid's responsiveness is to be based on the contents of the bid itself, as defined in ITB11.

32.2 A substantially responsive Technical Bid is one that meets the requirements of the Bidding Document 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 services specified in the Contract; or
 - (ii) limit in any substantial way, inconsistent with the Bidding Document, 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.

32.3 The Employer shall examine the technical aspects of the Bid submitted in accordance with ITB 17, Technical Proposal, in particular to confirm that all requirements of Section 6 (Employer's Requirements) have been met without any material deviation or reservation.

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

**33. Nonmaterial
Nonconformities**

33.1 Provided that a Bid is substantially responsive, the Employer may waive any nonconformities in the bid that do not constitute a material deviation, reservation or omission.

33.2 Provided that a 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 Bid related to documentation requirements. Requesting information or documentation on such nonconformities shall not be related to any aspect of the Price Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.

33.3 Provided that a Bid is substantially responsive, the Employer shall rectify 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 3 (Evaluation and Qualification Criteria).

**34. Detailed
Evaluation of
Technical Bids**

34.1 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 Document. 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; deviations from the Employer's Requirements; conformity of the plant and services offered with specified performance criteria; suitability of the plant and 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. The bid that does not meet minimum acceptable standards of completeness, consistency and detail will be rejected for non-responsiveness;

(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 3 (Evaluation and Qualification Criteria).

34.2 Where alternative technical solutions have been allowed in accordance with ITB 13, 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.

35. Eligibility and Qualification of the Bidder

35.1 The Employer shall determine to its satisfaction during the evaluation of Technical Bids whether a Bidder meets the eligibility and qualifying criteria specified in Section 3 (Evaluation and Qualification Criteria).

35.2 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.

35.3 An affirmative determination shall be a prerequisite for the opening and evaluation of a Bidder's Price Bid. A negative determination shall result into the disqualification of the Bid, in which event the Employer shall return the unopened Price Bid to the Bidder.

35.4 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 3 (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.

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 4 and the amount given in Schedule No. 5 (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 arithmetical error, in which case the amount in figures shall prevail subject to (a) and (b) above.

36.2 If the Bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid shall be disqualified and its bid security may be

forfeited or its bid securing declaration executed.

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| 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. Margin of Preference | 38.1 | Unless otherwise specified in the BDS, a margin of preference shall not apply. |
| 39. Evaluation of Price Bids | 39.1 | The Employer shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be permitted. |
| | 39.2 | To evaluate a Price Bid, the Employer shall consider the following: <ul style="list-style-type: none">(a) the bid price, excluding provisional sums and the provision, if any, for contingencies in the Price Schedules;(b) price adjustment for correction of arithmetical errors in accordance with ITB 36.1;(c) price adjustment due to discounts offered in accordance with ITB 18.7;(d) converting the amount resulting from applying (a) to (c) above, if relevant, to a single currency in accordance with ITB 37; and(e) the evaluation factors indicated in Section 3 (Evaluation and Qualification Criteria). |
| | 39.3 | If price adjustment is allowed in accordance with ITB 18.6, 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. |
| | 39.4 | If this Bidding Document allows 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 3 (Evaluation and Qualification Criteria). |
| | 39.5 | 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. |
| 40. Comparison of Bids | 40.1 | The Employer shall compare all substantially responsive Bids to determine the lowest evaluated bid, in accordance with ITB 39.2. |

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| 41. Employer's Right to Accept Any Bid, and to Reject Any or All Bids | 41.1 The Employer reserves the right to accept or reject any bid, 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. |
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F. Award of Contract

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| 42. Award Criteria | 42.1 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 Document, provided further that the Bidder is determined to be eligible and qualified to perform the Contract satisfactorily. |
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| | 42.2 The Employer reserves the right to accept any of the deviations submitted in accordance with ITB 18.2 by the lowest evaluated bidder, at the price shown for the deviation in the bid. |
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| 43. Notification of Award | 43.1 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 services (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price"). |
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| | 43.2 At the same time, the Employer will publish in an English language newspaper or well-known freely accessible website the results identifying the bid and lot numbers and the following information: (i) name of each Bidder who submitted a Bid; (ii) bid prices as read out at bid opening; (iii) name and evaluated prices of each Bid that was evaluated; (iv) name of bidders whose bids were rejected and the reasons for their rejection; and (v) name of the winning Bidder, and the price it offered, as well as the duration and summary scope of the contract awarded. After publication of the award, unsuccessful bidders may request in writing to the Employer for a debriefing seeking explanations on the grounds on which their bids were not selected. The Employer shall promptly respond in writing to any unsuccessful Bidder who, after Publication of contract award, requests a debriefing. |
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| | 43.3 Until a formal contract is prepared and executed, the notification of award shall constitute a binding Contract. |
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| | 43.4 The Employer shall promptly respond in writing to any unsuccessful Bidder who, after notification of award in accordance with ITB 43.1, requests in writing the grounds on which its bid was not selected. |
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| 44. Signing of Contract | 44.1 Promptly after notification, the Employer shall send the successful Bidder the Contract Agreement. |
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| | 44.2 Within twenty-eight (28) days of receipt of the Contract Agreement, the successful Bidder shall sign, date, and return it to the Employer. |
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| 45. Performance | 45.1 Within twenty-eight (28) days of the receipt of notification of award from the |
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Security

Employer, the successful Bidder shall furnish the performance security in accordance with the conditions of contract, subject to ITB 39.5, using for that purpose the Performance Security Form included in Section 6 (Employer's Requirements), or another form acceptable to the Employer. If the institution issuing the performance security is located outside the country of the Employer, it shall have a correspondent financial institution located in the country of the Employer to make it enforceable.

- 45.2 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 or execution of the bid securing declaration. In that event the Employer may award the Contract to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the Employer to be qualified to perform the Contract satisfactorily.

Section 2 - Bid Data Sheet

Section 2 - Bid Data Sheet

A. Introduction

ITB 1.1	The number of the Invitation for Bids is: CPC-NIT/OPTCL/OPSEAP/ 32 /2013-14 dated. 03.03.2014
ITB 1.1	The Employer is: Odisha Power Transmission Corporation Limited , Odisha, India.
ITB 1.1	<p>The name of the ICB is: 47379-IND , Odisha Power Sector Emergency Assistance Project (OPSEAP) - Package-II</p> <p>The identification number of the ICB is: ICB Document No: OPTCL/ADB- OPSEAP /2014/ Package-II</p> <p>The number and identification of Package-II comprising this ICB is: Two No. of Lots within State of ODISHA.</p> <p>LOT-1: 33 kV Sub-Station Work “Engineering, Supply, Design, Erection Testing and Commissioning of 33/11 kV GIS Sub-Stations with 33kV Network” & SCADA-DMS equipment.</p> <p>LOT- 2 : 11kV and LT Network Work: “Engineering, Supply, Design, Erection Testing and Commissioning of 11kV & LT network and 11/0.43 kV Distribution S/s”.</p>
ITB 2.1	The Borrower is: INDIA
ITB 2.1	The name of the Project is: Odisha Power Sector Emergency Assistance Project (OPSEAP).
ITB 4.1	A Joint Venture/ Consortium/Association may be formed of a maximum of not more than FOUR partners.

B. Bidding Documents

ITB 7.1	<p>For <u>clarification purposes</u> only, the Employer's address is:</p> <p>Attention: Sr. General Manager (CPC), OPTCL</p> <p>Street Address: JANPATH,</p> <p>Floor/Room Number: 1st Floor, Corporate Building,</p> <p>Central Procurement Cell</p>
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	<p>City: BHUBANESWAR, ODISHA</p> <p>ZIP Code: 751 022</p> <p>Country: INDIA</p> <p>Telephone:</p> <p>Facsimile number:</p> <p>Electronic mail address:</p>
ITB 7.4	<p>A Pre-Bid meeting shall take place as follows :</p> <p>Date: 24th March 2014</p> <p>Time: 11 AM (IST)</p> <p>Place: Odisha Power Transmission Corporation Limited, (OPTCL) Conference Hall, 4th floor, CPC Branch, Corporate Building, Janpath, Bhubaneswar, Odisha, India.</p> <p>A site visit shall be arranged by the Employer, if so decided in the pre-bid meeting.</p>

C. Preparation of Bids

ITB 11.2 (k)	The Bidder shall submit with its Technical Bid the following additional documents:	
	For bidder from Employer's Country	For Foreign Bidders (From Source Countries of the ADB)
1.	Details of Manufacturing / Fabrication/Service facilities of the Bidder or its Sub-Contractor/Manufacturer.	Details of Manufacturing / Fabrication/Service facilities Bidder or its Sub-Contractor/Manufacturer
2.	Type Test certificate conducted during last five year of the Major items (Transformers, Switch Gears, CR panel, CT, PT LA, XLPE UG Cable and AAA Conductor) of Plant & Services to be supplied under this contract.	Type Test certificate conducted during last five year of the Major items (Transformers, Switch Gears, CR panel, CT, PT, LA, XLPE UG Cables and AAA Conductor) of Plant & Services to be supplied under this contract.
3.	Commercial questionnaires duly filled in as per Annexure-I (Volume I)	Commercial questionnaires duly filled in as per Annexure-I (Volume I)
4.	Technical Questionnaire duly filled in as per Annexure-II	Technical Questionnaire duly filled in as per Annexure-II (Volume I)

	(Volume I)	
ITB 13.1	Alternative bids shall not be permitted.	
ITB 13.2	Alternatives to the Time Schedule shall not be permitted.	
ITB 13.3	Technical alternatives to the Employer's requirement are not permitted.	
ITB 13.4	Alternative technical solutions shall not be permitted for any part of the plant and services.	
ITB 15.2	Margin of preference shall not apply.	
ITB 16.1 (b)	20 years.	
ITB 18.1	Bidders shall quote either for Lot-I or Lot-II or Both the Lots (Lot-I and Lot-II) covered under the package-I.	
ITB 18.2	No deviations are allowed.	
ITB 18.3	Schedule No. 3: Design Services- Not Applicable	
IT 18.4(a)(i)	The Incoterm for quoting plant to be supplied from abroad: (CIF) , Port of Entry is Kolkata/Vizag.	
IT 18.4(b)(i)	The Incoterm for quoting plant manufactured within the Employer's country is: (EXW)	
IT 18.4(c)	Design Services- Not applicable	
IT 18.4(e)	Not Applicable	
ITB 18.6	Fixed Price	
ITB 19.1	The currency of the bid shall be the currency of the bidder's home country or US\$. If the bidder wishes to be paid in a combination of amounts in different currencies it may quote its price accordingly but shall use no more than three currencies and such currencies must be the currency of ADB member country.	

ITB 20.1	The bid validity period shall be 180 days.														
ITB 21.1	Bidder shall furnish as part of its Bid, a Bid Security. "Bid Securing Declaration" shall not be accepted.														
ITB 21.2	Not Applicable.														
ITB 21.3	<p>The bid security shall be a demand guarantee, and shall be submitted by way of an irrevocable bank guarantee in the form included in the section 4 (Bidding Form) issued in favour of "ODISHA Power Transmission Corporation Ltd., Bhubaneswar, Odisha, India". The form will include the complete name of Bid. Bid security shall be valid for 28 days (twenty eight) beyond the original validated period of the bid, or beyond any period of extension, if requested under ITB 20.2.</p> <p>The amount of bid security to be furnished either in US \$ or Indian Rupees is indicated hereunder:</p> <table><tr><th rowspan="2">Lot No.</th><th rowspan="2">Scope of Work</th><th colspan="2">Bid Security</th></tr><tr><th>US \$ Million</th><th>Indian Rupees ₹ Million</th></tr><tr><td>LOT- 1</td><td>33kV Sub-Station Work "Engineering, Design Supply, Erection, Testing and Commissioning of 33/11 kV GIS Sub-Stations with 33kV Network & SCADA-DMS Equipment".</td><td>0.40</td><td>25</td></tr><tr><td>LOT-2</td><td>11kV and LT Network Work: "Engineering, Design, Supply, Erection, Testing and Commissioning of 11kV & LT network and 11/0.43kV Distribution S/s".</td><td>0.55</td><td>35</td></tr></table> <p>The Bid security should be from a Scheduled commercial Bank as per the extant guidelines of Reserve Bank of India or for an equivalent amount in freely convertible international currency from a reputable bank having corresponding bank in India.</p>	Lot No.	Scope of Work	Bid Security		US \$ Million	Indian Rupees ₹ Million	LOT- 1	33kV Sub-Station Work "Engineering, Design Supply, Erection, Testing and Commissioning of 33/11 kV GIS Sub-Stations with 33kV Network & SCADA-DMS Equipment".	0.40	25	LOT-2	11kV and LT Network Work: "Engineering, Design, Supply, Erection, Testing and Commissioning of 11kV & LT network and 11/0.43kV Distribution S/s".	0.55	35
Lot No.	Scope of Work			Bid Security											
		US \$ Million	Indian Rupees ₹ Million												
LOT- 1	33kV Sub-Station Work "Engineering, Design Supply, Erection, Testing and Commissioning of 33/11 kV GIS Sub-Stations with 33kV Network & SCADA-DMS Equipment".	0.40	25												
LOT-2	11kV and LT Network Work: "Engineering, Design, Supply, Erection, Testing and Commissioning of 11kV & LT network and 11/0.43kV Distribution S/s".	0.55	35												
ITB 22.1	In addition, the Bidder shall submit one more copy.														
ITB 22.2	<p>The written confirmation of authorization to sign on behalf of the Bidder shall consist of ;</p> <p>a. In case bid submitted by single bidder:</p> <p>i. Power of Attorney /notarized copy in the bidders home country.</p>														

	<p>b. In case bid submitted by Joint Venture bidder:</p> <p>i. Joint Venture/ Consortium/ Association Agreement duly signed by all parties stating that all parties shall be jointly or severally liable on non-judicial stamp paper of appropriate value as per the format prescribed in section-6.</p> <p>ii. Power of Attorney of Joint Venture/ Consortium/ Association nominating a Representative, who shall have the authority to conduct all business for all and on behalf of any and all parties of the Joint Venture during the bidding process and, in the event of Joint Venture/ Consortium/ Association is awarded contract, during contract execution on non-judicial stamp paper of appropriate value as per the format prescribed in section-6.</p>
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D. Submission and Opening of Bids

ITB 23.1	Bidders shall not have the option of submitting their bids electronically.
ITB 23.1 (b)	Not Applicable.
ITB 24.1	<p>For <u>bid submission purposes</u> only, the Employer's address is</p> <p>Attention: Sr. General Manager (CPC), Odisha Power Transmission Corporation limited. Street Address: Janpath, Bhubaneswar, Odisha. Floor/Room number: 1st floor, Corporate Building, OPTCL City: Bhubaneswar, State: Odisha ZIP Code: 751 022 Country: India The deadline for bid submission is Date: 25th April' 2014 Time: 14.30 Hrs (IST)</p>
ITB 27.1	<p>The bid opening of Technical Bids shall take place at</p> <p>Street Address: Janpath</p> <p>Floor/Room number: 4th Floor, CPC Branch, Corporate Building,</p> <p>City : Bhubaneswar, Odisha</p> <p>Country: India</p> <p>Date: 25th April' 2014</p> <p>Time: 15.00 Hrs (IST)</p>

E. Evaluation, and Comparison of Bids

ITB 34.1	The bidders are informed to ascertain on their own availability of deemed export benefits. They are solely responsible for obtaining such benefits, which they have considered in their bids and in case of failure to receive such benefits for reasons whatsoever, including change in Govt. of India Export and Import Policy; the purchaser will not compensate the bidder. Only requisite certificate/documents will be issued by the Employer.
ITB 37.1	<ul style="list-style-type: none">i. For evaluation and comparison purposes, the currency (ies) of the bid shall be converted into Indian Rupees (₹)ii. The source of the exchange rate shall be: Telegraphic Transfer selling rate declared by the State Bank of India.iii. The date for the selling exchange rate shall be: Date of Opening of the Technical Bid.
ITB 38.1	A margin of preference shall not apply.

F. Award of Contract

ITB 43.2	The details shall be hosted on website of the Employer http://www.optcl.co.in
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Section 3 - Evaluation and Qualification Criteria

Section 3 - Evaluation and Qualification Criteria

This Section contains all the criteria that the Employer shall use to evaluate bids and qualify Bidders. In accordance with ITB 34 and ITB 35, no other methods, criteria and factors shall be used. The Bidder shall provide all the information requested in the forms included in Section 4 (Bidding Forms).

Table of Criteria

1. Evaluation.....	3-40
1.1 Technical Evaluation.....	3-40
1.2 Economic Evaluation	3-40
1.3 Technical Alternatives	3-42
2. Qualification	3-43
2.1 Eligibility.....	3-43
2.1.1 Nationality	3-43
2.1.2 Conflict of Interest	3-43
2.1.3 ADB Eligibility.....	3-43
2.1.4 Government-owned Entity	3-43
2.1.5 UN Eligibility.....	3-43
2.2 Pending Litigation	3-44
2.3 Financial Situation.....	3-45
2.3.1 Historical Financial Performance	3-45
2.3.2 Average Annual Turnover	3-45
2.3.3 Financial Resources	3-45
2.4 Experience	3-47
2.4.1 General Experience	3-47
2.4.2 Specific Experience	3-47
(a) Contracts of Similar Size and Nature	3-47
(b) Experience in Key Activities	3-47
2.5 Personnel	3-Error! Bookmark not defined.
2.6 Equipment	3-49
2.7 Subcontractors	3-50

1. Evaluation

1.1 Technical Evaluation

In addition to the criteria listed in ITB 34.1 (a) – (b) the following factors shall apply as per 34.1(c):

1. The Bidder or its Sub-Contractor/Manufacturer should have either their own service base in INDIA or they should have a tie up with a third party having adequate service base in INDIA from where they will be providing after sales services of the equipment supplied under this contract.
2. Plant and equipment such as Transformers, GIS Switch Gears, Relay, CT & PT, CB & VCB, AAAC & UG XLPE Cables to be supplied by the bidder or its Sub-Contractor/Manufacturer should have been type tested from an Internationally accredited laboratory (KEMA, Holland/ EDF, France/Hydra-Quebec, Canada/CESI, Italy/CPRI, Bangalore, India / IPH Germany/ KERI, Korea) within last 5 years reckoned from the due date of submission of bid and meet the minimum Guaranteed Technical Particulars prescribed by the Employer.
3. For evaluation of the Balance Sheets submitted by the bidders, currencies other than local currency shall be converted into local currency for evaluation purpose with TT selling rate of State Bank of India (SBI) in India considering the end date of financial year mentioned in the balance sheet.

1.2 Economic Evaluation

No adjustments in the quoted price on account of following shall be allowed for purposes of comparative evaluation, to arrive at an “Evaluated Bid Price.”

1.2.1 Quantifiable Deviations and Omissions

- 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 BOQ unit of measurement will prevail and accordingly unit rate applied for evaluation purpose and for payment,

- i. 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 BOQ 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 BOQ.
- ii. Discounts to 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.
- iii. Loss capitalization of the Transformer shall not be considered.
- iv. Single Contract: The total evaluated prices (total of the Supply (CIF/EXW) plus Installation & other services excluding taxes and duties) of all the Bidders, Lot wise, shall be compared to determine the lowest evaluated price.
- v. Multiple Contract: Plants & Services are grouped in lots and pursuant to Sub-Clause 39.4 of the "Instructions to Bidders", the Employer will evaluate and compare Bids on the basis of a lot or a combination of lots or as a total of package in order to arrive at the least cost combination for the Purchaser by taking into account discounts offered by the Bidders in case of award of multiple contracts. The bidders have to bid for minimum one complete.

1.2.2 Time Schedule

- i. Time to complete the plant and services from the effective date specified in Article 3 of the Contract Agreement for determining time for completion of pre-commissioning activities is: **[LOT- 1-18 months & LOT-2- 18 months]**. No credit shall be added for early completion of contract for the purpose of comparative evaluation.
- ii. No demobilization, remobilization period, idling or stoppage period will be allowed during this period of contract.
- iii. Bids mentioning Time Schedule other than mentioned above (LOT-1-18 months & LOT-2-18 months) will be considered non responsive.

1.2.3 Operating and Maintenance Costs: No Operating and Maintenance Costs are allowed.

1.2.4 Functional Guarantees of the facilities: No Functional Guarantees of the facilities are allowed.

1.2.5 Work, services, facilities, etc., to be provided by the Employer

- i. Terminal of Gantry shall be provided by an Employer.
- ii. Drawings, GTP, Location Details and BOQ available with employer (list 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 approved by the bidder from the Employer with no extra cost to the employer.
- iii. Employer will assist to secure the ROW, getting clearance from Railway, NHAI, Forest, Water and other Statutory/Govt. body.

Note: 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 Bidder while submitting bids.

1.2.6 Specific additional criteria;

- 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. The bidder should have Valid Electrical (HT) license issued by the Authority from source countries of ADB.
- iii. In case of JV/Consortium/Association any of the partners of JV/Consortium/Association shall have Valid Electrical (HT) license issued by the Authority

- iv. However, for both the cases above at (Sl. No. ii & iii), Bidder is required to apply for project license to the Secretary, ELBO, ODISHA by depositing the requisite fee before signing the contract agreement.

1.2.7 Domestic Preference: No Domestic Preference is Applicable.

1.3 Technical Alternatives:

No Technical alternatives shall be permitted.

1.4 Adjustment for deviation from terms of payment:

Deviation from terms of payment as specified in Appendix of contract Agreement shall not be permitted. All bids deviating from specified terms of payment will be treated as nonresponsive.

2. Qualification

If the bidding was preceded by a prequalification process then the Bidder and any subcontractors/Sub-Vender shall continue to meet the criteria used at the time of prequalification as reiterated below.

2.1 Eligibility

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	At Least One Partner	
2.1.1 Nationality					
Nationality in accordance with ITB Sub-Clause 4.2.	must meet requirement	must meet requirement	must meet requirement	not applicable	Forms ELI - 1; ELI - 2 with attachments
2.1.2 Conflict of Interest					
No conflicts of interest in accordance with ITB Sub-Clause 4.3.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
2.1.3 ADB Eligibility					
Not having been declared ineligible by ADB, as described in ITB Sub-Clause 4.4.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid
2.1.4 Government-owned Entity					
Bidder required to meet conditions of ITB Sub-Clause 4.5.	must meet requirement	must meet requirement	must meet requirement	not applicable	Forms ELI - 1; ELI - 2 with attachments
2.1.5 UN Eligibility					
Not having been excluded by an act of compliance with UN Security Council resolution or Employer's country law in accordance with ITB Sub-Clause 4.7.	must meet requirement	must meet requirement	must meet requirement	not applicable	Letter of Technical Bid

2.2 Pending Litigation

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	

2.2.1 Pending Litigation

Undertaking that there is no pending litigation amounting to more than 100% percent of the Bidder's net worth.	must meet requirement	not applicable	must meet requirement	not applicable	Form LIT - 1
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2.3 Financial Situation

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	

2.3.1 Historical Financial Performance

Submission of audited balance sheets and income statements or, if not required by the law of the Bidder's country, other financial statements acceptable to the Employer, for the last five years to demonstrate the current soundness of the Bidders financial position and its prospective long-term profitability. As a minimum, a Bidder's net worth calculated as the difference between total assets and total liabilities should be positive for latest audited balance sheet.	must meet requirement	not applicable	must meet requirement	not applicable	Form FIN - 1 with attachments
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2.3.2 Average Annual Turnover

<p>Minimum average annual turnover of the Bidder during best three financial years out of five financial years preceding to the year of NIT shall be as under;</p> <ul style="list-style-type: none"> Lot- 1: ₹ 3350 Million/\$ 54 Million Lot- 2: ₹ 4460 Million/\$ 73 Million <p>For Bidders participating in both the Lots, the sum total for each lot (Lot- 1: ₹ 3350 Million/\$ 53 Million and Lot- 2: ₹ 4460 Million/\$ 73 Million) as mentioned above shall be added together for evaluation purpose.</p>	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN - 2
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2.3.3 Financial Resources

<p>Using Forms FIN – 3 and FIN - 4 in Section 4 (Bidding Forms) the Bidder must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet:</p> <p>(1) the following cash-flow requirement,</p> <ul style="list-style-type: none"> Lot- 1 ₹ 420 Million/\$ 7 Million Lot- 2 ₹ 560 Million/\$ 9 Million <p>"The documents submitted by the bidder including the audited financial accounts, must demonstrate that the bidder has adequate working capital available to undertake this contract. If the bidder's working capital is inadequate the bidder should supplement the same with a reputable bank's letter confirming the availability of a line of credit such that bidder's available working capital plus</p>	must meet requirement	must meet requirement	must meet 25% of the requirement	must meet 40% of the requirement	Form FIN - 3
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<p>line of credit put together are adequate to undertake the contract".</p> <p>(2) The Bidder shall submit cash Flow statement showing how he will meet the overall cash flow requirements for this contract and its current works commitment.</p> <p>For Bidders participating in both the Lots, the sum total for each lot (Lot- 1 ₹ 420 Million/\$ 7 Million and Lot- 2 ₹ 560 Million/\$ 9 Million) as mentioned above shall be added together for evaluation purpose.</p>					
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2.4 Experience

Criteria	Compliance Requirements				Documents
Requirement	Single Entity	Joint Venture			Submission Requirements
		All Partners Combined	Each Partner	One Partner	

2.4.1 General Experience

<p>Experience under contracts in the role of contractor or subcontractor, for at least last 05 years prior to the bid submission deadline covering following activities:-.</p> <p>For Lot- 1 : Construction of 33/11 kV GIS Sub-Stations with 33kV Network" & SCADA-DMS equipment.</p> <p>For Lot- 2 : Construction of 11kV & LT network and installation of 11/0.43kV Distribution S/s.</p> <p>The above facility (Both for Lot-1 & Lot-2) should be in satisfactory operation for at least 01 (one) year from the date of commissioning. To substantiate this requirement the performance certificate from user is required to be furnished.</p>	must meet requirement	not applicable	must meet requirement	not applicable	Form EXP - 1
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2.4.2 Specific Experience

(a) Contracts of Similar or higher Size and Nature

<p>Both for Lot-1 & Lot-2 :</p> <p>Experience as contractor, or subcontractor in similar or higher to the proposed plant and services at least one contract within the last five (05) financial years that have been successfully completed. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as described in Section 6 (Employer's Requirements).</p>	must meet requirement	must meet requirement	not applicable	not applicable	Form EXP - 2(a)
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(b) Experience in Key Activities (May be complied by specialist subcontractors. Employer shall require evidence of subcontracting agreement from Bidder.)

For the above contracts executed during the period stipulated in 4.2(a) above, a minimum experience in the following key activities; Lot-I & Lot-II	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP - 2(b)
For Lot- 1: Engineering, Supply, Design, Erection, Testing and Commissioning of 33/11 kV GIS Sub-Stations with 33kV Network & SCADA-DMS equipment:					
The bidder must have successfully erected, tested and commissioned at least 01 nos. of 33/11 kV or higher voltage class at GIS Sub-Stations (having Transformer Capacity of 5 MVA or above) on EPC Contract / Turnkey Contract basis for any Transmission Utility during Last Five Financial Years preceding to the year of NIT.	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP - 2(b)
The bidder must have successfully executed XLPE underground Cable	must meet all	must meet all	not applicable	not applicable	Form EXP - 2(b)

laying work at least of 50KM (Route Length) of 33 kV or higher voltage class for any Transmission Utility during Last Five Financial Years preceding to the year of NIT.	requirements	requirements			
For Lot- 2 : Engineering, Supply, Design, Erection, Testing and Commissioning of 11kV & LT network and DT's:					
The bidder must have successfully executed XLPE underground Cable laying work at least of 50KM (Route Length) of 11 kV or higher voltage class for any Transmission Utility during Last Five Financial Years preceding to the year of NIT.	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP - 2(b)
The Bidder must furnish copies of the relevant Work Orders along with Handing Over and Taking Over Certificate or Client certified copies of Completion Certificate in proof of successful execution of Works and Performance Certificates duly signed by the competent authority of the Client in proof of successful operation of the above quantum of works from any Transmission Utility.	must meet all requirements	must meet all requirements	not applicable	not applicable	Form EXP - 2(b)

2.5 Equipment

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

No.	Equipment Type and Characteristics	Min. Number Required
1	33/11 kV 8 MVA Power Transformer	1No
2	33kV Circuit Breaker for GIS	1No
3	33kV CT and PT for GIS	1No
4	33kV Bus Bar for GIS	1No
5	33 kV Single Core XLPE UG Cable, 300sqmm Copper	1 KM
6	SCADA-DMS equipment	1No
7	33kV Ring Main Unit	1No
8	11/0.43 kV 750 KVA Compact Substation	1No
9	11kV Ring Main Unit	1No
10	11/0.43 kV 315 KVA Distribution Transformer	1No
11	11 kV Three Core XLPE UG Cable, 300 sqmm Aluminum	1KM

The Bidder shall provide further details of proposed items of equipment using the relevant Form in Section 4 (Bidding Forms). For non-submission of the above information, bid shall be rejected.

2.6 Subcontractors /manufacturers:

Subcontractors/manufacturers for the following major items of supply or services must meet the following minimum criteria, herein listed for that item. Failure to comply with this requirement will result in rejection of the subcontractor/ manufacturer.

Item No.	Description of Item	Minimum Criteria to be met
1	Supply of all items as per BOQ.	Major items (identified) should have been supplied at least 25% of the total BOQ quantity during last three financial years.
	Lot – 1:	
	33/11 kV GIS Sub-Stations with 33kV Network & SCADA	
	1) 33 kV Gas Insulated Switchgears Module	
	2) 33 KV Bus PTs GIS	
	3) 33 kV CR Panel	
	4) 33 kV Gas insulated Bus bar	
	5) 33 kV, Single Core UG Cable, XLPE insulated 400 & 300 Sqmm Copper.	
	6) AAAC 232 sqmm & 148 sqmm. Conductor	
	7) NBLS tower/ H-Type Pole	
	8) 33kV Ring Main Units	
	9) 8 MVA Power Transformer	
	10) 33/0.4 kV, 500kVA ,AIS Substation	
	11) SCADA-DMS equipment	
	Lot - 2	
	11kV & LT network and DT's:	
	1) 11/0.4 kV, 750kVA Compact S/s	
	2) 11/0.4 kV, 315 kVA Distribution Transformer	
	3) 11kV Ring Main Units	
	4) AAAC 100 sqmm Conductor	
	5) H-Type Pole	
	6) 11 kV, 3 Core UG Cable, XLPE insulated 300 Sqmm & 240sqmm Aluminium.	
	7) 1.1kV, Three half Core, UG Cable, PVC insulation armoured, 240 sqmm Aluminium	
	8) 1.1 kV, Three Core, ABC 95 sqmm and 70 Sqmm	
	9) LT Distribution feeder pillar box	
	10) R.S Joists 200X100 mm 9 Mtrs Poles	
2	Construction of XLPE Cable laying work	Execution of 33KV & 11kV XLPE Cable laying work for at least of 10 Km.(Route Length) through HDD methodology.

Note: The bidder shall furnish the documentary evidence to meet the above criteria. Besides, subcontractor/ manufacturer should have valid relevant license as applicable to the contractor.

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 the form provided in Section 4 (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 5 and meets the minimum criteria listed above for that item. For non-submission of the above requirement, bid shall be rejected.

Section 4 - Bidding Forms

Section 4 - Bidding Forms

This Section contains the forms which are to be completed by the Bidder and submitted as part of his Bid.

Table of Forms

Letter of Technical Bid	4-53
Letter of Price Bid	4-4
Price Schedules	4-57
Schedule No. 1. Plant and Mandatory Spare Parts Supplied from Abroad	4-Error! Bookmark not defined.
Schedule No. 2. Plant and Mandatory Spare Parts Supplied from Within the Employer's Country	4-Error! Bookmark not defined.
Schedule No. 3. Design Services	4-Error! Bookmark not defined.
Schedule No. 4. Installation and Other Services	4-Error! Bookmark not defined.
Schedule No. 5. Grand Summary	4-Error! Bookmark not defined.
Schedule No. 6. Recommended Spare Parts	4-58
Bid Security	4-195
Bid Securing Declaration	4-14
Technical Proposal	4-198
Site Organization	4-199
Method Statement	4-200
Mobilization Schedule	4-201
Construction Schedule	4-202
Personnel	4-Error! Bookmark not defined.
Form PER – 1: Proposed Personnel	4-Error! Bookmark not defined.
Form PER – 2: Resume of Proposed Personnel	4-Error! Bookmark not defined.
Equipment	4-203
Proposed Subcontractors/Manufacturers for Major Items of Plant and Services	4-204
Manufacturer's Authorization	4-205
Time Schedule	4-207
Bidders Qualification	4-208
Form ELI - 1: Bidder's Information Sheet	4-209
Form ELI - 2: JV Information Sheet	4-210
Form LIT - Pending Litigation	4-211
Form FIN - 1: Financial Situation	4-212
Form FIN - 2: Average Annual Turnover	4-213
Form FIN – 3: Financial Resources	4-214
Form FIN- 4: Current Contract Commitments	4-215
Form EXP – 1: General Experience	4-216
Form EXP – 1: General Experience	4-216
Form EXP – 2(a): Specific Experience	4-217
Form EXP - 2(b): Specific Experience in Key Activities	4-218

Letter of Technical Bid

[Bidder's Letterhead]

Date:

ICB No.:

Invitation for Bid No.:

To:

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;
- (b) We offer to design, manufacture, test, deliver, install, pre-commission and commission in conformity with the Bidding Document the following Plant and Services: ;
- (c) Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of 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
- (d) We, including any subcontractors or manufacturers for any part of the contract , have or will have nationalities from eligible countries, in accordance with ITB-4.2;
- (e) We, including any subcontractors or suppliers for any part of the contract, do not have any conflict of interest in accordance with ITB 4.3;
- (f) We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process in accordance with ITB 4.3, other than alternative offers submitted in accordance with ITB 13;
- (g) Our firm, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, has not been declared ineligible by ADB, under the Employer's country laws or official regulations or by an act of compliance with a decision of the United Nations Security Council;
- (h) We are not a government owned entity / We are a government owned entity but meet the requirements of ITB4.5; *

- (i) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the Bank.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

** Use one of the two options as appropriate*

*** If none has been paid or is to be paid, indicate "none"*

Letter of Price Bid

[Bidder's Letterhead]

Date:

ICB No.:

Invitation for Bid No.:

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda issued in accordance with Instructions to Bidders (ITB) 8;
- (b) We offer to design, manufacture, test, deliver, install, pre-commission and commission in conformity with the Bidding Document the following Plant and Services: ;
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is the sum of:
- (d) The discounts offered and the methodology for their application are:
- (e) Our bid shall be valid for a period of days from the date fixed for the 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) If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Document;
- (g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: **

Name of Recipient	Address	Reason	Amount
.....
.....

- (h) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (j) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by the Bank.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

**** If none has been paid or is to be paid, indicate "none"**

Price Schedules

PREAMBLE

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 **(Not Applicable)**
 - Schedule No. 4: Installation and Other Services
 - Schedule No. 5: Grand Summary
 - Schedule No. 6: Recommended Spare Parts **(Not Applicable)**
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 Document 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 Special 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 Document.

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 6 (Employer's Requirements) or elsewhere in the Bidding Document.
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 part 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.

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-1)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
1	Supply of materials for installation of 2x5 MVA, 33/11 kV GIS indoor S/S with SCADA enabled equipment and conversion of existing outdoor s/s to 2x8 MVA 33/11 kV indoor GIS S/S							
1.1	Supply of 33kV Indoor GIS module for Feeder consisting of Circuit Breaker-1250 A,,Disconnectors-1250 A and Earth Switch's & Current Transformer (400-200/1-1-1A) as per Technical Specification.		Nos	10				
1.2	Supply of 33kV Indoor GIS module for Transformer consisting of Circuit Breaker-1250 A,,Disconnectors-1250 A & Current Transformer (400-200/1-1-1A) as per Technical Specification.		Nos	8				
	Supply of 33kV Indoor GIS module for Bus Coupler consisting of Circuit Breaker-1250 A,,Disconnectors-1250 A & Current Transformer (400-200/1-1-1A) as per Technical Specification.		Nos	1				
1.3	Supply of 33/0.4kV 100 KVA Energy efficient Station Transformer		Nos	4				
1.4	Supply of 33/11kV , 5.0 MVA, Power Transformer as per Technical Specification.		Nos	6				
1.4	Supply of 33/11kV , 8.0 MVA, Power Transformer as per Technical Specification.		Nos	2				
1.5	Supply of Centre Rotating, 36kV, 1250A, 25kA, Beam Mounted Single Isolator Double break Double Tandem With Earth Switch (For Incoming Line) - Outdoor Type		Nos	10				
1.6	Supply of 33kV, 200A, Horizontal type AB Switch complete Set (for Station Trf. 100KVA, 33/0.43 kV)		sets	4				
1.7	Supply of 33kV HG Fuse (for Station Trf. 100KVA, 33/0.4kV)		sets	4				
1.8	Supply of Centre Rotating, 11kV, 1250A, 25kA, Single Isolator Double break Double Tandem With Earth Switch		nos	19				

1.9	Supply of 11kV Indoor AIS Panel consisting of Breaker-1250A, Bus-bar-1250A (Copper), CT (600-300/1-1-1A)		Nos	35				
1.10	Supply of 10kV, 10kA, Metal Oxide, Surge Arrester - Outdoor type		Nos	84				
1.11	Supply of RTU & Accessories with SCADA Compatibility		sets	4				
1.12	Supply of materials for 3 nos. of H-Type Pole (7.25mtr) column structure, 2 nos. of 5 mtr. I-beams , 19 nos. of Joist DPs (10 mtr.) , 18 nos. of Joist DPs (9.6 mtr)		MT	77				
1.13	Supply of 33kV, Single Core, UG Cable, XLPE insulated , 630 sqmm, Copper		mtr	3500				
1.14	Supply of 33kV, Single Core, UG Cable, XLPE insulated , 35 sqmm, Copper		mtr	400				
1.15	Supply of 11kV, Single Core, UG Cable, XLPE insulated , 630 sqmm, Copper		mtr	1800				
1.16	Supply of 11kV, Single Core, UG Cable, XLPE insulated , 630 sqmm, Copper		mtr	7600				
1.17	Supply of Outdoor heat shrink type cable termination kit , 33kV, XLPE, Single Core 400sqmm, Copper		Nos	72				
1.18	Supply of Outdoor heat shrink type cable termination kit , 33kV, XLPE , Three Core, 35 sqmm, Copper		Nos	16				
1.19	Supply of Outdoor heat shrink type cable termination kit , 11 kV, XLPE , Single Core 630 sqmm, Copper		Nos	36				
1.20	Supply of Outdoor heat shrink type cable termination kit , 11 kV, XLPE , Single Core 400 sqmm, Copper		Nos	76				
1.21	Supply of Indoor heat shrink type cable termination kit , 33kV, XLPE , Single Core 400 sqmm, Copper		Nos	72				
1.22	Supply of Indoor heat shrink type cable termination kit , 11 kV, XLPE, Single Core 630 sqmm, Copper		Nos	36				
1.23	Supply of Indoor heat shrink type cable termination kit , 11 kV, XLPE, Single Core 400 sqmm, Copper		Nos	76				
1.24	Supply of Control Cable		mtr	1840				
1.25	Supply of Power Cables, LT PVC Three half Core, 95 sqmm Cable (to be connected at 0.4kV side of Stn. Trf)		mtr	500				
1.26	Supply of 48 V, 100 AH, maintenance free VRLA Battery		Nos	4				
1.27	Supply of 48V, 100A Float cum Boost Charger: (Float/Boost current as recommended by VRLA Battery vendor)		Nos	4				

1.28	Supply of materials for Watering system like 4 inch Dia bore well with Quality Pipes, 0.5 HP submersive pump, 1000 lts OH tank, Sanitary fittings, switch yard water hydrant system, tap for garden etc		Nos	4				
1.29	Supply of materials for Control Room -Inclusive of doors, windows, inner cable trench Two nos main doors with concrete pillars,beams in Complete furnished in sq. mts., Sub-Station Switchyard Lighting , including supply of fixtures & Lamps (LED) of reputed make with switch gear, GI Conduit etc(125Wx4 sets for Switchyard, 70Wx4 sets for control room. (Lighting fixtures are to be fixed rigidly on the Column at a suitable height with GI tubular pole so that the required lux can be maintained), 1.5 Ton capacity Split Air Conditioning units with Remote control facility: Including supply of split Air containing units 5Star rated, voltage stabiliser, control boxes etc for completing the A.C scheme. (As per specification) for control room ,Fire Fighting System (portable and wheel mounted sets for control room)		Nos	4				
1.30	Supply of materials for Civil works for all foundation, Cable trench ,boundary wall ,Road, metal spreading, Drain, compound wall Contour survey (50 mts.x 40 mts.),Cutting, levelling (rolling &compacting of filledup soil before taking measurement) within initial lead of 50 Mtrs. Raising the height of substation yard above HFL.		Nos	4				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-1)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
1	Supply Of materials for installation of 2x5 MVA, 33/11 kV GIS indoor S/S with SCADA enabled equipment and conversion of existing outdoor s/s to 2x8 MVA 33/11 kV indoor GIS S/S									
1.1	Supply of 33kV Indoor GIS module for Feeder consisting of Circuit Breaker-1250 A,,Disconnectors-1250 A and Earth Switch's & Current Transformer (400-200/1-1-1A) as per Technical Specification.	Nos	10							
1.2	Supply of 33kV Indoor GIS module for Transformer consisting of Circuit Breaker-1250 A,,Disconnectors-1250 A & Current Transformer (400-200/1-1-1A) as per Technical Specification.	Nos	8							
	Supply of 33kV Indoor GIS module for Bus Coupler consisting of Circuit Breaker-1250 A,,Disconnectors-1250 A & Current Transformer (400-200/1-1-1A) as per Technical Specification.	Nos	1							
1.3	Supply of 33/0.4kV 100 KVA Energy efficient Station Transformer	Nos	4							
1.4	Supply of 33/11kV , 5.0 MVA, Power Transformer as per Technical Specification.	Nos	6							
1.4	Supply of 33/11kV , 8.0 MVA, Power Transformer as per Technical Specification.	Nos	2							
1.5	Supply of Centre Rotating, 36kV, 1250A, 25kA, Beam Mounted Single Isolator Double break Double Tandem With Earth Switch (For Incoming Line) - Outdoor Type	Nos	10							
1.6	Supply of 33kV, 200A, Horizontal type AB Switch complete Set (for Station Trf. 100KVA, 33/0.43 kV)	sets	4							
1.7	Supply of 33kV HG Fuse (for Station Trf. 100KVA, 33/0.4kV)	sets	4							
1.8	Supply of Centre Rotating, 11kV, 1250A, 25kA, Single Isolator Double break Double Tandem With Earth Switch	nos	19							

1.9	Supply of 11kV Indoor AIS Panel consisting of Breaker-1250A, Bus-bar-1250A (Copper), CT (600-300/1-1-1A)	Nos	35							
1.10	Supply of 10kV, 10kA, Metal Oxide, Surge Arrester - Outdoor type	Nos	84							
1.11	Supply of RTU & Accessories with SCADA Compatibility	sets	4							
1.12	Supply of materials for 3 nos. of H-Type Pole (7.25mtr) column structure, 2 nos. of 5 mtr. I-beams , 19 nos. of Joist DPs (10 mtr.) , 18 nos. of Joist DPs (9.6 mtr)	MT	77							
1.13	Supply of 33kV, Single Core, UG Cable, XLPE insulated , 630 sqmm, Copper	mtr	3500							
1.14	Supply of 33kV, Single Core, UG Cable, XLPE insulated , 35 sqmm, Copper	mtr	400							
1.15	Supply of 11kV, Single Core, UG Cable, XLPE insulated , 630 sqmm, Copper	mtr	1800							
1.16	Supply of 11kV, Single Core, UG Cable, XLPE insulated , 630 sqmm, Copper	mtr	7600							
1.17	Supply of Outdoor heat shrink type cable termination kit , 33kV, XLPE, Single Core 400sqmm, Copper	Nos	72							
1.18	Supply of Outdoor heat shrink type cable termination kit , 33kV, XLPE , Three Core, 35 sqmm, Copper	Nos	16							
1.19	Supply of Outdoor heat shrink type cable termination kit , 11 kV, XLPE , Single Core 630 sqmm, Copper	Nos	36							
1.20	Supply of Outdoor heat shrink type cable termination kit , 11 kV, XLPE , Single Core 400 sqmm, Copper	Nos	76							
1.21	Supply of Indoor heat shrink type cable termination kit , 33kV, XLPE , Single Core 400 sqmm, Copper	Nos	72							
1.22	Supply of Indoor heat shrink type cable termination kit , 11 kV, XLPE, Single Core 630 sqmm, Copper	Nos	36							
1.23	Supply of Indoor heat shrink type cable termination kit , 11 kV, XLPE, Single Core 400 sqmm, Copper	Nos	76							
1.24	Supply of Control Cable	mtr	1840							
1.25	Supply of Power Cables, LT PVC Three half Core, 95 sqmm Cable (to be connected at 0.4kV side of Stn. Trf)	mtr	500							
1.26	Supply of 48 V, 100 AH, maintenance free VRLA Battery	Nos	4							
1.27	Supply of 48V, 100A Float cum Boost Charger: (Float/Boost current as recommended by VRLA Battery vendor)	Nos	4							

1.28	Supply of materials for Watering system like 4 inch Dia bore well with Quality Pipes, 0.5 HP submersible pump, 1000 lts OH tank, Sanitary fittings, switch yard water hydrant system, tap for garden etc	Nos	4							
1.29	Supply of materials for Control Room -Inclusive of doors, windows, inner cable trench Two nos main doors with concrete pillars ,beams in Complete furnished in sq. mts., Sub-Station Switchyard Lighting , including supply of fixtures & Lamps (LED) of reputed make with switch gear, GI Conduit etc(125Wx4 sets for Switchyard, 70Wx4 sets for control room. (Lighting fixtures are to be fixed rigidly on the Column at a suitable height with GI tubular pole so that the required lux can be maintained), 1.5 Ton capacity Split Air Conditioning units with Remote control facility: Including supply of split Air conditioning units 5Star rated, voltage stabiliser, control boxes etc for completing the A.C scheme. (As per specification) for control room ,Fire Fighting System (portable and wheel mounted sets for control room)	Nos	4							
1.30	Supply of materials for Civil works for all foundation, Cable trench, boundary wall, Road ,metal spreading ,Drain, compound wall Contour survey (50 mts.x 40 mts.),Cutting, levelling (rolling &compacting of filledup soil before taking measurement) within initial lead of 50 Mtrs. Raising the height of substation yard above HFL.	Nos	4							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices PACKAGE-II (LOT-1)

Schedule No. 3 - Design Services (Annexure-1)

[illegible]

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 4 - Installation and Other Services (Annexure-1)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
				5	6	7=4x5	8=4x6	9	10
1	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of 2x5 MVA, 33/11 kV GIS S/S and conversion of existing outdoor s/s to 3x8 MVA , 33/11 kV GIS S/S								
1.1	Transportation, Storing ,Erection, Testing & Commissioning of 33kV Indoor GIS Module		19						
1.2	Transportation, Storing ,Erection, Testing & Commissioning of 100 KVA 33/0.4kV Energy efficient Station Transformer	Nos	4						
1.3	Transportation, Storing ,Erection, Testing & Commissioning of 33/11kV, 5.0 MVA, Power Transformer	Nos	6						
1.4	Transportation, Storing ,Erection, Testing & Commissioning of 33/11kV, 8.0 MVA Power Transformer	Nos	2						
1.6	Transportation, Storing ,Erection, Testing & Commissioning of Single Isolator Double break Double Tandem With Earth Switch (For Incoming Line) - Outdoor Type	Nos	10						
1.7	Transportation, Storing ,Erection, Testing & Commissioning of 33kV, 200A, Horizontal type AB Switch (for Station Trf. 100KVA, 33/0.4kV)	sets	4						
1.8	Transportation, Storing ,Erection, Testing & Commissioning of 33kV HG Fuse (for Station Trf. 100KVA, 33/0.4kV)	sets	4						
1.9	Transportation, Storing ,Erection, Testing & Commissioning of Center Rotating, 11kV, 1250A, 25kA, Single Isolator Double break Double Tandem With Earth Switch (for 3nos.Feeders)	nos	19						
1.10	Transportation, Storing ,Erection, Testing & Commissioning of 11kV Indoor AIS Panel consisting of Breaker-1250A, Bus-bar-1250A (Copper), CT (600-300/1-1-1A)	Nos	35						
1.11	Transportation, Storing ,Erection, Testing & Commissioning of 12kV, 10kA, Metal Oxide, Surge Arrester (For 2 nos. Transformers & 3 nos. Feeders) - Outdoor type	Nos	84						

1.12	Transportation, Storing ,Erection, Testing & Commissioning of RTU & Accessories with SCADA Compatibility	sets	4						
1.13	Transportation, Storing ,Erection & Commissioning for 3 nos. of H-Type Pole (7.25mtr) column structure, 2 nos. of 5 mtr. I-beams , 19 nos. of Joist DPs (10 mtr.) , 18 nos. of Joist DPs (9.6 mtr)	MT	77						
1.14	Transportation, Storing ,Laying, Testing & Commissioning of 33kV, XLPE Single Core 630 sqmm Armoured UG Cable Laying	mtr	3500						
1.15	Transportation, Storing ,Laying, Testing & Commissioning of 33kV, XLPE Three Core 35 sqmm Armoured UG Cable	mtr	400						
1.16	Transportation, Storing ,Laying, Testing & Commissioning of 11kV, XLPE Single Core 630 sqmm Armoured UG Cable	mtr	1800						
1.17	Transportation, Storing ,Laying, Testing & Commissioning of 11kV, XLPE Single Core 400 sqmm Armoured UG Cable	mtr	7600						
1.18	Transportation, Storing ,Erection, Testing & Commissioning of Outdoor heat shrink type cable termination kit , 33kV, XLPE Single Core 400 sqmm	Nos	72						
1.19	Transportation, Storing ,Erection, Testing & Commissioning of Outdoor heat shrink type cable termination kit , 33kV, XLPE Three Core 35 sqmm	Nos	16						
1.20	Transportation, Storing ,Erection, Testing & Commissioning of Outdoor heat shrink type cable termination kit , 11 kV, XLPE Single Core 630 sqmm	Nos	36						
1.21	Transportation, Storing ,Erection, Testing & Commissioning of Outdoor heat shrink type cable termination kit , 11 kV, XLPE Single Core 400 sqmm	Nos	76						
1.22	Transportation, Storing ,Erection, Testing & Commissioning of Indoor heat shrink type cable termination kit , 33kV, XLPE Single Core 400 sqmm	Nos	72						
1.23	Transportation, Storing ,Erection, Testing & Commissioning of Indoor heat shrink type cable termination kit , 11 kV, XLPE Single Core 630 sqmm	Nos	36						
1.24	Transportation, Storing ,Erection, Testing & Commissioning of Indoor heat shrink type cable termination kit , 11 kV, XLPE Single Core 400 sqmm	Nos	76						
1.25	Transportation, Storing ,Laying, Testing & Commissioning of Control Cable	mtr	1840						
1.26	Transportation, Storing ,Laying, Testing & Commissioning of Power Cables, LT PVC Three half Core 95 sqmm Cable (to be connected at 0.4kV side of Stn. Trf)	mtr	500						

1.27	Transportation, Storing ,Erection, Testing, Commissioning & Installation of 48 V, 100 AH, maintenance free VRLA Battery (Set. 4 Nos of 12V Battery)	Nos	4						
1.28	Transportation, Storing ,Erection, Testing & Commissioning of 48V, 100A Float cum Boost Charger: (Float/Boost current as recommended by VRLA Battery vendor)	Nos	4						
1.29	Transportation, Storing, Drilling & Commissioning of Watering system like 4 inch Dia bore well , 0.5 HP submersible pump, 1000 lts OH tank, Sanitary fittings ,switch yard water hydrant system, tap for garden etc	Nos	4						
1.30	Transportation, Storing ,Erection, Testing, Installation & Commissioning of Control Room Settings -Inclusive of doors, windows, inner cable trench Two nos main doors with concrete pillars, beams in Complete furnished in sq. mts. , Sub-Station Switchyard Lighting , including supply of fixtures & Lamps (LED) of reputed make with switch gear, GI Conduit etc(125Wx4 sets for Switchyard, 70Wx4 sets for control room. (Lighting fixtures are to be fixed rigidly on the Column at a suitable height with GI tubular pole so that the required lux can be maintained), 1.5 Ton capacity Split Air Conditioning units with Remote control facility: Including supply of split Air conditioning units 5Star rated, voltage stabiliser, control boxes etc for completing the A.C scheme. (As per specification) for control room, Fire Fighting System (portable and wheel mounted sets for control room)	Nos	4						
1.31	Transportation, Storing and Construction of Civil works for all foundation, Cable trench, boundary wall ,Road ,metal spreading, Drain, compound wall Contour survey (50 mts.x 40 mts.),Cutting, levelling (rolling &compacting of filled up soil before taking measurement) within initial lead of 50 Mtrs.	Nos	4						
1.32	Transportation, Storing and Construction of Plinth elevation upto 2mtr height from the ground level, Levelling and filling of land	Nos	4						
1.33	Miscellaneous Charges (for completeness of the project)	LS	1						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 5 - Grand Summary (Annexure-1)

Schedule No. 5 - Grand Summary (Annexure-1)			
Schedule No.	Title	Total ¹	
		Foreign	Local
1)1.1	Plant and Mandatory Spare Parts Supplied from Abroad		
1.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
1.3	Design Services		
1.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 6 - Recommended Spare Parts (Annexure-1)

Schedules of Rates and Prices						
PACKAGE-II (LOT-1)						
Schedule No. 6 - Recommended Spare Parts (Annexure-1)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-2)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
2	Supply of materials for installation of Compact type SF-6 gas insulated, stainless steel tank, 35kV class ,extendable, Ring Main Units with 33kV class motorized load break switches with fault passage indicator and VCB with protective relays , compatible for Distribution SCADA/ Automation (in future) fitted with motor operated spring loadings with following configuration.							
2.1	Supply of materials for 2(Two) nos. load break switches with 2 (Two) nos. VCB for 33kV,UG cables, Single Core, XLPE insulated, 300 sq mm Copper, in /out for ring formation between two sources and for future connectivity		Set.	5				
2.2	Supply of Earthing materials pipe type for grounding (Single Electrode with accessories) with GI Flat 50x6mm size		Sets.	25				
2.3	Supply of materials for Foundation of RMUs		Nos.	5				
2.4	Supply of materials for Galvanized Fencing around each RMU		Nos.	5				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-2)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
2	Supply of Compact type SF-6 gas insulated, stainless steel tank,35kV class, extendable, Ring Main Units with 33kV class motorized load break switches with fault passage indicator and VCB with protective relays , compatible for Distribution SCADA/ Automation (in future) fitted with motor operated spring loadings with following configuration.									
2.1	Supply of materials for 2(Two) nos. load break switches with 2 (Two) nos. VCB for 33kV,UG cables, Single Core, XLPE insulated, 300 sq mm Copper, in /out for ring formation between two sources and for future connectivity	Set.	5							
2.2	Supply of Earthing materials pipe type for grounding (Single Electrode with accessories) with GI Flat 50x6mm size	Sets.	25							
2.3	Supply of materials for Foundation of RMUs	Nos.	5							
2.4	Supply of materials for Galvanized Fencing around each RMU for External Protection	Nos.	5							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 - Design Services (Annexure-2)

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 4 - Installation and Other Services (Annexure-2)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
2	Transportation, Storing ,Installation, Testing & Commissioning and Other Services of Compact type SF-6 gas insulated, stainless steel tank,35kV class ,extendable, Ring Main Units with 33kV class motorized load break switches with fault passage indicator and VCB with protective relays , compatible for Distribution SCADA/ Automation (in future) fitted with motor operated spring loadings with following configuration.								
2.1	Transportation, Storing , Installation, Testing & Commissioning of 2(Two) nos. load break switches with 2 (Two) nos. VCB for 33kV,UG cables, Single Core, XLPE insulated, 300 sq mm Copper, in /out for ring formation between two sources and for future connectivity	Sets.	5						
2.2	Transportation, Storing ,Erection, Testing & Commissioning of Earthing materials pipe type for grounding (Single Electrode with accessories) with GI Flat 50x6mm size	Sets.	25						
2.3	Transportation, Storing ,Erection & Testing of Foundation for RMUs	Nos.	5						
2.4	Transportation, Storing & Erection of Galvanized Fencing around each RMU for External Protection	Nos.	5						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

PACKAGE-II (LOT-1)

Schedule No. 5 - Grand Summary (Annexure-2)			
Schedule No.	Title	Total ¹	
		Foreign	Local
2)2.1	Plant and Mandatory Spare Parts Supplied from Abroad		
2.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
2.3	Design Services		
2.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

PACKAGE-II (LOT-1)

Schedules of Rates and Prices						
PACKAGE-II (LOT-1)						
Schedule No. 6 - Recommended Spare Parts (Annexure-2)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW Local Parts Local Currency	CIF or CIP Imported Parts Foreign Currency	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Schedules of Rates and Prices
PACKAGE-II (LOT-1)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-3)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
3	Supply of materials for construction of 33 kV Over Head D/C Lines on NBLs towers with 232 sq.mm and in H-Type poles with 148 sq.mm AAA Conductors.							
3.1	Supply of materials for construction of NBLs Tower to withstand 300 km/h wind speed for AAAC 232 sq mm Conductor as per design drawing		MT	340.08				
3.2	Supply of materials for construction of H-Type Pole to withstand 300 km/h wind speed for AAAC 148 sq mm Conductor as per design drawing		MT	2807				
3.3	Supply of AAAC 232 sqmm. Conductor for D/C Line		kM	53.10				
3.4	Supply of AAAC 148 sqmm. Conductor for D/C Line		kM	683.79				
3.5	Supply of 33 kV, 70KN, Disc Insulators(Polymer) for Tangent towers		Set	13794				
3.6	Supply of 33 kV, 70KN, Disc Insulators(Polymer) for Tension towers		Set	1452				
3.7	Supply of materials for Single suspension hardware both for AAAC 232 & 148 sq mm Conductor		Set	13794				
3.8	Supply of materials for Single tension hardware both for AAAC 232 & 148 sq mm Conductor		Set	1452				
3.9	Supply of Earth electrodes Pipe type		Nos	2420				
3.10	Supply of Danger Boards		Nos	2420				
3.11	Supply of Circuit plates		Nos	4840				
3.12	Supply of Phase plates		Nos	14520				
3.13	Supply of Number plates		Nos	2420				
3.14	Supply of Anti climbing Divices		Nos	2420				

3.15	Supply of Conductor accessories for AAAC 232 sq mm Conductor							
3.15.1	Supply of materials for Mid span joints		Nos	44				
3.15.2	Supply of Repair sleeves		Nos	18				
3.15.3	Supply of Vibration damper		Nos	1046				
3.16	Supply of Conductor accessories for AAAC 148 sq mm Conductor							
3.16.1	Supply of materials for Mid span joints		Nos	561				
3.16.2	Supply of Repair sleeves		Nos	225				
3.16.3	Supply of Vibration damper		Nos	13474				
3.17	Supply of materials for construction of 33 kV Outdoor Bay Arrangement for GIS 33/11kV S/s		Nos	1				
3.18	Supply of materials for construction of 33 kV Outdoor Bay Arrangement for 33/11kV S/s		Nos	11				
3.19	Supply of materials for Foundations for NBLS Towers & H-type Pole							
3.19.1	Reinforcement steel		MT	220.62				
3.19.2	Cement 1:2:4		MT	1765				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder

Signature of Bidder

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-3)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
3	Supply of materials for construction of 33 kV Over Head D/C Lines on NBLS towers with 232 sq.mm and in H-Type poles with 148 sq.mm AAA Conductors.									
3.1	Supply of materials for construction of NBLS Tower to withstand 300 km/h wind speed for AAAC 232 sq mm Conductor as per design drawing	MT	340.08							
3.2	Supply of materials for construction of H-Type Pole to withstand 300 km/h wind speed for AAAC 148 sq mm Conductor as per design drawing	MT	2807							
3.3	Supply of AAAC 232 sqmm. Conductor for D/C Line	kM	53.10							
3.4	Supply of AAAC 148 sqmm. Conductor for D/C Line	kM	683.79							
3.5	Supply of 33 kV, 70KN, Disc Insulators(Polymer) for Tangent towers	Set	13794							
3.6	Supply of 33 kV, 70KN, Disc Insulators(Polymer) for Tension towers	Set	1452							
3.7	Supply of materials for Single suspension hardware both for AAAC 232 & 148 sq mm Conductor	Set	13794							
3.8	Supply of materials for Single tension hardware both for AAAC 232 & 148 sq mm Conductor	Set	1452							
3.9	Supply of Earth electrodes Pipe type	Nos	2420							
3.10	Supply of Danger Boards	Nos	2420							
3.11	Supply of Circuit plates	Nos	4840							
3.12	Supply of Phase plates	Nos	14520							
3.13	Supply of Number plates	Nos	2420							
3.14	Supply of Anti climbing divices	Nos	2420							
3.15	Supply of Conductor accessories for AAAC 232 sq mm Conductor									
3.15.1	Supply of materials for Mid span joints	Nos	44							

3.15.2	Supply of Repair sleeves	Nos	18							
3.15.3	Supply of Vibration damper	Nos	1046							
3.16	Supply of Conductor accessories for AAAC 148 sq mm Conductor									
3.16.1	Supply of materials for Mid span joints	Nos	561							
3.16.2	Supply of Repair sleeves	Nos	225							
3.16.3	Supply of Vibration damper	Nos	13474							
3.17	33 kV Outdoor Bay Arrangement for GIS 33/11kV S/s	Nos	1							
3.18	33 kV Outdoor Bay Arrangement for 33/11kV S/s	Nos	11							
3.19	Supply of materials for Foundations for NBLS Towers & H-type Pole									
3.19.1	Reinforcement steel	MT	220.62							
3.19.2	Cement 1:2:4	MT	1765							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder

Signature of Bidder

Schedule No. 3 - Design Services (Annexure-3)

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 4 - Installation and Other Services (Annexure-3)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
3	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of 232 sq.mm and 148 sq.mm D/C AAAC conductors for 33 kV OH lines								
3.1	Transportation, Storing ,Erection, Testing & Commissioning of NBLS Tower to withstand 300 km/h wind speed for AAAC 232 sq mm Conductor as per design drawing	MT	340.08						
3.2	Transportation, Storing ,Erection, Testing & Commissioning of H-Type Pole to withstand 300 km/h wind speed for AAAC 148 sq mm Conductor as per design drawing	MT	2807						
3.3	Transportation, Storing , Stringing of AAAC 232 sqmm. Conductor for D/C Line	kM	53.10						
3.4	Transportation, Storing , Stringing of AAAC 148 sqmm. Conductor for D/C Line	kM	683.79						
3.5	Transportation, Storing & fixing of 33 kV, 70KN Insulator (Polymer) for Tangent towers Both for AAC 232 & 148 sq mm Conductor including hardware fittings & other accessories.	Set	13794						
3.6	Transportation, Storing & fixing of 33 kV, 70KN Insulator (Polymer) for Tension towers Both for AAC 232 & 148 sq mm Conductor including hardware fittings & other accessories.	Set	1452						
3.7	Transportation, Storing ,Installation, Testing & Commissioning of Earth electrodes for Line	Nos	2420						
3.8	Fixing of Circuit plates	Nos	4840						
3.9	Fixing of Phase plates	Nos	14520						

3.10	Fixing of Number plates, Danger Boards, Anti climbing devices	Nos	2400						
3.11	Fixing of Conductor accessories for AAAC 232 sq mm Conductor								
3.11.1	Fixing of Mid span joints	Nos	44						
3.11.2	Fixing of Repair sleeves	Nos	18						
3.11.3	Fixing of Vibration damper	Nos	1046						
3.12	Fixing of Conductor accessories for AAAC 148 sq mm Conductor								
3.12.1	Fixing of Mid span joints	Nos	561						
3.12.2	Fixing of Repair sleeves	Nos	225						
3.12.3	Fixing of Vibration damper	Nos	13474						
3.13	Transportation, Storing ,Erection, Testing & Commissioning of 33 kV Outdoor Bay Arrangement for GIS 33/11kV S/s	Nos	1						
3.14	Transportation, Storing ,Erection, Testing & Commissioning of 33 kV Outdoor Bay Arrangement for 33/11kV S/s	Nos	11						
3.15.1	Soil excavation & Back filling	Cum	9231						
3.13.2	Reinforcement steel for NBLS Towers	MT	220.62						
3.13.3	Construction of Foundations of NBLS Towers & H-Type Pole Concrete 1:2:4	Cum	5430						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder

Signature of Bidder

PACKAGE-II (LOT-1)

Schedule No. 5 - Grand Summary (Annexure-3)			
Schedule No.	Title	Total ¹	
		Foreign	Local
3)3.1	Plant and Mandatory Spare Parts Supplied from Abroad		
3.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
3.3	Design Services		
3.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

PACKAGE-II (LOT-1)

Schedules of Rates and Prices						
PACKAGE-II (LOT-1)						
Schedule No. 6 - Recommended Spare Parts (Annexure-3)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW Local Parts Local Currency	CIF or CIP Imported Parts Foreign Currency	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Schedules of Rates and Prices
PACKAGE-II (LOT-1)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-4)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
4	Supply of materials for laying of 33kV, Single Core, UG Cable, XLPE Insulated, 300 sqmm Copper (Drum size: 500m)							
4.1	Supply of 33kV, Single Core, UG Cable, XLPE Insulated, 300 sqmm Copper with extruded semi conducting screen and corrugated Copper Sheath		Km	190.58				
4.2	Supply of Straight Through joint for Single Core, UG Cable, XLPE insulated, 300 sq mm Copper		Nos	1086				
4.3	Supply of Termination for Single Core, UG Cable, XLPE Insulated, 300 sqmm Copper		Nos	96				
4.4	Supply of High Density Polyethylene(HDPE) pipe 10 inch diameter for Road/Railway crossing		Km	12.1				
4.5	Supply of 36 inch/18 inch RCC Cover Tiles		Km	60.5				
4.6	Supply of materials for 33KV Bay in S/S with outdoor / indoor electrical equipment including structure a civil foundation		Nos	17				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-4)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
4	Supply of materials for laying of 33kV, Single Core, UG Cable, XLPE Insulated, 300 sqmm Copper (Drum size: 500m)									
4.1	Supply of 33kV, Single Core, UG Cable, XLPE Insulated, 300 sqmm Copper with extruded semi conducting screen and corrugated Copper Sheath	Km	190.58							
4.2	Supply of Straight Through joint for Single Core, UG Cable, XLPE insulated, 300 sq mm Copper	Nos	1086							
4.3	Supply of Termination for Single Core, UG Cable, XLPE Insulated, 300 sqmm Copper	Nos	96							
4.4	Supply of High Density Polyethylene(HDPE) pipe 10 inch diameter for Road/Railway crossing	Km	12.1							
4.5	Supply of 36 inch/18 inch RCC Cover Tiles	Km	60.5							
4.6	Supply of materials for 33KV Bay in S/S with outdoor / indoor electrical equipment including structure a civil foundation	Nos	17							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 - Design Services (Annexure-4)

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 4 - Installation and Other Services (Annexure-4)									
Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
4	Transporting, Storing, Laying, Testing and Commissioning of and Other Services Of materials for laying of 33kV, Single Core, UG Cable, XLPE Insulated, 300 sqmm Copper								
4.1	Transporting, Storing, Laying, Testing and Commissioning of 33kV, Single Core, UG Cable, XLPE Insulated, 300 sqmm Copper (80% of total length through Open Trench)	Km	50.82						
4.2	Transporting, Storing, Laying, Testing and Commissioning of 33kV, Single Core, UG Cable, XLPE Insulated, 300 sqmm Copper (20% of total length through Micro Tunneling)	Km	12.71						
4.3	Reconstruction of damaged road & other utilities to bring its original shape after laying of cable in open trench.	Km	50.82						
4.4	Marking of Cable Route including Civil Works	LS	1						
4.5	Transporting, Storing, Erection, Testing and Commissioning of Straight through jointing for 33kV, Single Core, UG Cable, XLPE insulated, 300 sq mm Copper	Nos.	362						
4.6	Transporting, Storing, Erection, Testing and Commissioning of Termination jointing for 33kV, Single Core, UG Cable, XLPE insulated, 300 sq mm Copper	Nos.	32						
4.7	Transporting, Storing, Erection, Testing and Commissioning of 33KV bay(incl. structure & civil foundation)	Nos.	17						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 5 - Grand Summary (Annexure-4)

Schedule No. 5 - Grand Summary (Annexure-4)			
Schedule No.	Title	Total ¹	
		Foreign	Local
4)4.1	Plant and Mandatory Spare Parts Supplied from Abroad		
4.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
4.3	Design Services		
4.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 6 - Recommended Spare Parts (Annexure-4)

Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts Local Currency	Imported Parts Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-2 (LOT-I)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-5)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
5	Supply of materials for installation of SCADA-DMS equipment							
5.1	Supply of materials for installation of Remote Terminal Units		LS	1				
5.2	Supply of materials for installation of Interfaces Optical and digital Unmanaged		LS	1				
5.3	Supply of materials for installation of SCADA and database functions for Autonagar (redundancy built)		Nos.	1				
5.4	Supply of materials for laying of Cables and other associated hardware		LS	1				
5.5	Supply of materials for erection of Services covering Engineering, Wiring Testing & Commissioning		LS	1				
5.6	Supply of materials for Integration to Master SCADA system		LS	1				
5.7	Supply of materials for Control room, furniture and fixtures		LS	1				
5.8	Supply of materials for SCADA-DMS Communication Equipment							
5.8.1	Supply of materials for SDH Base OLT Equipment with 2xCentral processing Cards, Distributed dual power Supply		Nos.	23				
5.8.2	Supply of materials for Agg. Cards with 2x STM1, 2x E1 and 4 FE ports		Nos.	46				
5.8.3	Supply of materials for STM-1 SFP		Nos.	50				
5.8.4	Supply of materials for DDF		Nos.	23				
5.8.5	Supply of materials for Ethernet DDF		Nos.	23				
5.8.6	Supply of materials for Installation accessories		Nos.	23				

5.8.7	Supply of materials for NMS (1 server, Licences, 4 Craft terminals)		Nos.	1				
5.9	Supply of materials for Mandatory Spares							
5.9.1	Supply of materials for SDH Base Equipment with 2xCentral processing Cards, Distributed dual power Supply cards and accessories (10%)		Nos.	1				
5.10	Supply of materials for Services-Equipment							
5.10.1	Supply of site testing and Commissioning for SDH		Nos.	23				
5.10.2	Supply of site testing and Commissioning for NMS system		Nos.	1				
5.10.3	Training for Nominated Engineers (No of engineers 10, 5 day each, one batch)		Nos.	1				
5.11	Supply of materials for OFC Cable							
5.15.1	Supply of materials for, Unarmored, 12 fiber OF cable as per G.652D specs		km	160				
5.15.2	Supply of materials for, HDPE duct (40/33 mm) Services-OF Cable		km	160				
5.15.3	Supply of materials for Laying of duct and OFC along with UG power cable		km	85				
5.15.4	Supply of materials for Laying of duct and OFC as standalone as per BSNL specs		km	75				
5.15.5	Supply of materials for Supply of materials for Procurement of 3G SIM's (2*25)		Nos.	46				
5.12	Supply of materials for Fibre Optic Micro SCADA-DMS equipment							
5.12.1	Supply of materials for 16 fiber Arm		km	56.673				
5.12.2	Supply of materials for 8 fiber Arm		km	70.072				
5.12.3	Supply of materials for Fiber optic terminal units and accessory		LS	1				
5.13	Supply of materials for Supply of materials for Mini RTUs in Micro SCADA-DMS equipment							
5.13.1	Supply of materials for Cat i for DTCs		Nos.	157				
5.13.2	Supply of materials for Cat ii for RMU		Nos.	94				
5.13.3	Supply of materials for Cat iii for S/S		Nos.	10				

5.14	Supply of materials for SCADA Equipment (Servers, GPS, o/p console printers etc.)							
5.14.1	Supply of materials for and Installation of SCADA Equipment (Servers, GPS, o/p console printers etc.)		LS	1				
5.15	Supply of materials for SCADA software		LS	1				
5.16	Supply of materials for SCADA special DMS software		LS	1				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices
PACKAGE-2 (LOT-I)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-5)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
5	Supply of materials for installation of SCADA-DMS equipment									
5.1	Supply of materials for installation of Remote Terminal Units	LS	1							
5.2	Supply of materials for installation of Interfaces Optical and digital Unmanaged	LS	1							
5.3	Supply of materials for installation of SCADA and database functions for Autonagar (redundancy built)	Nos.	1							
5.4	Supply of materials for laying of Cables and other associated hardware	LS	1							
5.5	Supply of materials for erection of Services covering Engineering, Wiring Testing & Commissioning	LS	1							
5.6	Supply of materials for Integration to Master SCADA system	LS	1							
5.7	Supply of materials for Control room, furniture and fixtures	LS	1							
5.8	Supply of materials for SCADA-DMS Communication Equipment									
5.8.1	Supply of materials for SDH Base OLT Equipment with 2xCentral processing Cards, Distributed dual power Supply	Nos.	23							
5.8.2	Supply of materials for Agg. Cards with 2x STM1, 2x E1 and 4 FE ports	Nos.	46							
5.8.3	Supply of materials for STM-1 SFP	Nos.	50							
5.8.4	Supply of materials for DDF	Nos.	23							
5.8.5	Supply of materials for Ethernet DDF	Nos.	23							
5.8.6	Supply of materials for Installation accessories	Nos.	23							

5.8.7	Supply of materials for NMS (1 server, Licences, 4 Craft terminals)	Nos.	1							
5.9	Supply of materials for Mandatory Spares									
5.9.1	Supply of materials for SDH Base Equipment with 2xCentral processing Cards, Distributed dual power Supply cards and accessories (10%)	Nos.	1							
5.10	Supply of materials for Services-Equipment									
5.10.1	Supply of site testing and Commissioning for SDH	Nos.	23							
5.10.2	Supply of site testing and Commissioning for NMS system	Nos.	1							
5.10.3	Training for Nominated Engineers (No of engineers 10, 5 day each, one batch)	Nos.	1							
5.11	Supply of materials for OFC Cable									
5.15.1	Supply of materials for, Unarmored, 12 fiber OF cable as per G.652D specs	km	160							
5.15.2	Supply of materials for, HDPE duct (40/33 mm) Services-OF Cable	km	160							
5.15.3	Supply of materials for Laying of duct and OFC along with UG power cable	km	85							
5.15.4	Supply of materials for Laying of duct and OFC as standalone as per BSNL specs	km	75							
5.15.5	Supply of materials for Supply of materials for Procurement of 3G SIM's (2*25)	Nos.	46							
5.12	Supply of materials for Fibre Optic Micro SCADA-DMS equipment									
5.12.1	Supply of materials for 16 fiber Arm	km	56.67							
5.12.2	Supply of materials for 8 fiber Arm	km	70.07							
5.12.3	Supply of materials for Fiber optic terminal units and accessory	LS	1							
5.13	Supply of materials for Supply of materials for Mini RTUs in Micro SCADA-DMS equipment									
5.13.1	Supply of materials for Cat i for DTCs	Nos.	157							
5.13.2	Supply of materials for Cat ii for RMU	Nos.	94							

5.13.3	Supply of materials for Cat iii for S/S	Nos.	10							
5.14	Supply of materials for SCADA Equipment (Servers, GPS, o/p console printers etc.)									
5.14.1	Supply of materials for and Installation of SCADA Equipment (Servers, GPS, o/p console printers etc.)	LS	1							
5.15	Supply of materials for SCADA software	LS	1							
5.16	Supply of materials for SCADA special DMS software	LS	1							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 - Design Services (Annexure-5)

Not Applicable

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-2 (LOT-I)

Schedule No. 4 - Installation and Other Services (Annexure-5)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
5	Transporting, Storing, Erection, Testing, Commissioning and installation of SCADA-DMS equipment								
5.1	Transporting, Storing, Erection, Testing, Commissioning and installation of Remote Terminal Units	LS	1						
5.2	Transporting, Storing, Erection, Testing, Commissioning and installation of Interfaces Optical and digital Unmanaged	LS	1						
5.3	Storing, Testing, Commissioning and installation of SCADA and database functions for Autonagar (redundancy built)	Nos.	1						
5.4	Transporting, Storing, Laying, Testing, Commissioning and installation of Cables and other associated hardware	LS	1						
5.5	Services covering Engineering, Wiring Testing & Commissioning	LS	1						
5.6	Testing, Commissioning and installation of Integration to Master SCADA system	LS	1						
5.7	Transporting, Storing and installation of Control room, furniture and fixtures	LS	1						
5.8	Transporting, Storing, Erection, Testing, Commissioning and installation of SCADA-DMS Communication Equipment								
5.8.1	Transporting, Storing, Erection, Testing, Commissioning and installation of SDH Base OLT Equipment with 2xCentral processing Cards, Distributed dual power Supply	Nos.	23						

5.8.2	Transporting, Storing, Erection, Testing, Commissioning and installation of Agg. Cards with 2x STM1, 2x E1 and 4 FE ports	Nos.	46						
5.8.3	Transporting, Storing, Erection, Testing, Commissioning and installation of STM-1 SFP	Nos.	50						
5.8.4	Transporting, Storing, Erection, Testing, Commissioning and installation of DDF	Nos.	23						
5.8.5	Transporting, Storing, Erection, Testing, Commissioning and installation of Ethernet DDF	Nos.	23						
5.8.6	Transporting, Storing, Erection, Testing, of Installation accessories	Nos.	23						
5.8.7	Transporting, Storing, Erection, Testing, Commissioning and installation of NMS (1 server, Licences, 4 Craft terminals)	Nos.	1						
5.9	Transporting, Storing, Erection, Testing, Commissioning and installation of Mandatory Spares								
5.9.1	Transporting, Storing, Erection, Testing, Commissioning and installation of SDH Base Equipment with 2xCentral processing Cards, Distributed dual power Supply cards and accessories (10%)	Nos.	1						
5.10	Installation and Other Services-Equipment								
5.10.1	Installation Commissioning and site testing for SDH	Nos.	23						
5.10.2	Installation Commissioning and site testing for NMS system	Nos.	1						
5.10.3	Training for Nominated Engineers (No of engineers 10, 5 day each, one batch)	Nos.	1						
5.11	Transporting, Storing, Laying, Testing, Commissioning and installation of OFC Cable								
5.11.1	Transporting, Storing, Laying, Testing and Commissioning of Unarmored, 12 fiber OF cable as per G.652D specs	km	160						
5.11.2	Transporting, Storing, Laying, Testing and Commissioning of HDPE duct (40/33 mm) Services- OF Cable	km	160						

5.11.3	Transporting, Storing, Laying, Testing and Commissioning of duct and OFC along with UG power cable	km	85						
5.11.4	Transporting, Storing, Laying, Testing and Commissioning of duct and OFC as standalone as per BSNL specs	km	75						
5.12	Transporting, Storing, Erection, Testing, Commissioning and installation of Fibre Optic Micro SCADA-DMS equipment								
5.12.1	Transporting, Storing, Laying, Testing, Commissioning and installation of 16 fiber Arm	km	56.67						
5.12.2	Transporting, Storing, Laying, Testing, Commissioning and installation of 8 fiber Arm	km	70.07						
5.12.3	Transporting, Storing, Laying, Testing, Commissioning and installation of Fiber optic terminal units and accessory	LS	1						
5.13	Transporting, Storing, Erection, Testing, Commissioning and installation of Mini RTUs in Micro SCADA-DMS equipment								
5.13.1	Transporting, Storing, Erection, Testing, Commissioning and installation of Cat i for DTCs	Nos.	157						
5.13.2	Transporting, Storing, Erection, Testing, Commissioning and installation of Cat ii for RMU	Nos.	94						
5.13.3	Transporting, Storing, Erection, Testing, Commissioning and installation of Cat iii for S/S	Nos.	10						
5.13.4	Commissioning and installation of SCADA Equipment (Servers, GPS, o/p console printers etc.)	LS	1						
5.14	Commissioning and installation for SCADA software	LS	1						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

PACKAGE-II (LOT-1)

Schedule No. 5 - Grand Summary (Annexure-5)			
Schedule No.	Title	Total ¹	
		Foreign	Local
5)5.1	Plant and Mandatory Spare Parts Supplied from Abroad		
5.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
5.3	Design Services		
5.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

PACKAGE-II (LOT-1)

Schedules of Rates and Prices						
PACKAGE-II (LOT-1)						
Schedule No. 6 - Recommended Spare Parts (Annexure-5)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-6)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
6	Supply of Materials for 33/0.4kV, 2x500kVA AIS Substation							
6.1	Supply of Materials for raising the plat form upto 2mtr. Height of area 1.5X1.5X2.50, to avoid the flooding		Cum	11.25				
6.2	Supply of Materials for Galvanised Steel structural materials for four pole structure to with stand 300 km/hr wind speed for 2X500 kVA 33/0.433 kV substation		LOT	1				
6.3	Supply of Materials for Gos 33 kV DB,630 A without EB for 2X500 kVA 33/0.433 kV S.S		No	3				
6.4	Supply of Materials for L.As 30 kV Gap less metal oxide Polimer(Silicon Rubber) type for 2X 0.5 MVA SS		No	9				
6.5	Supply of Materials for Distribution Transformer 500 KVA 33/0.433 kV with oil & Off load tap changer		No	2				
6.6	Supply of Materials for 33 kV Horn gap fuse units		No	2				
6.7	Supply of Materials for 33 kV Class polymer Silicon rubber insulators		Sets	2				
6.8	Supply of Materials for Pipe type earthing with all associated materials as per IS 3043		Sets	6				
6.9	Supply of Materials for L.T Protection Distribution box with one 750 Amps & Two 400 Amps MCCBs for 500 KVA DTCs		Nos	2				
6.1	Supply of Materials for Metring equipment with 3 CTS & ETV meter etc		Nos	2				
6.11	Supply of Materials for Danger boards		Nos	3				
6.12	Supply of Materials for A.C Devices		Nos	1				
6.13	Supply of Materials for Foundations for DTC structures Concrete 1:2:4		Nos	3				
6.14	Supply of Materials for Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr		Nos	37.5				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

**Schedules of Rates and Prices
PACKAGE-II (LOT-1)**

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-6)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6	7=4x5	8=4x6	9	10	11=6+8+10
6	Supply of Materials for 33/0.4kV, 2x500kVA AIS Substation									
6.1	Supply of Materials for raising the plat form upto 2mtr. Height of area 1.5X1.5X2.50, to avoid the flooding	Cum	11.25							
6.2	Supply of Materials for Galvanised Steel structural materials for four pole structure to with stand 300 kM/hr wind speed for 2X500 kVA 33/0.433 kV substation	LOT	1							
6.3	Supply of Materials for Gos 33 kV DB,630 A without EB for 2X500 kVA 33/0.433 kV S.S	No	3							

6.4	Supply of Materials for L.As 30 kV Gap less metal oxide Polymer(Silicon Rubber) type for 2X 0.5 MVA SS	No	9							
6.5	Supply of Materials for Distribution Transformer 500 KVA 33/0.433 kV with oil & Off load tap changer	No	2							
6.6	Supply of Materials for 33 kV Horn gap fuse units	No	2							
6.7	Supply of Materials for 33 kV Class polymer Silicon rubber insulators	Sets	2							
6.8	Supply of Materials for Pipe type earthing with all associated materials as per IS 3043	Sets	6							
6.9	Supply of Materials for L.T Protection Distribution box with one 750 Amps & Two 400 Amps MCCBs for 500 KVA DTCs	Nos	2							
6.1	Supply of Materials for Metring equipment with 3 CTS & ETV meter etc	Nos	2							
6.11	Supply of Materials for Danger boards	Nos	3							
6.12	Supply of Materials for A.C Devices	Nos	1							
6.13	Supply of Materials for Foundations for DTC structures Concrete 1:2:4	Nos	3							
6.14	Supply of Materials for Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr	Nos	37.5							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 - Design Services (Annexure-6)

Name of Bidder

Bidding Document for Odisha Power Sector Emergency Assistance Project (OPSEAP)Single-Stage: Two-Envelope

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 4 - Installation and Other Services (Annexure-6)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
6	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of 33/0.4 kV, 2x500kVA AIS Substation								
6.1	Transportation, Storing ,Erection, Testing & Commissioning of Rubble masanary plat form area of 1.5X1.5X2.50 Mtr to raise the substation level by 2 mt, to avoid the flooding	Cum	11.25						
6.2	Transportation, Storing ,Erection, Testing & Commissioning of Galvanised Steel structural materials for four pole structure to with stand 300 kM/hr wind speed for 2X0.5 MVA 33/0.433 kV substation	LOT	1						
6.3	Transportation, Storing ,Erection, Testing & Commissioning of Gos 33 kV DB,630 A without EB for 2X0.5 MVA 33/0.433 kV S.S	Nos	3						
6.4	Transportation, Storing ,Erection, Testing & Commissioning of L.As 30 kV Gap less metal oxide Polimer(Silicon Rubber) type for 2X 0.5 MVA Substation	Nos	9						
6.5	Transportation, Storing ,Erection, Testing & Commissioning of Distribution Transformer 500 KVA 33/0.433 kV with oil & Off load tap changer	Nos	2						
6.6	Transportation, Storing ,Erection, Testing & Commissioning of 33 kV Horn gap fuse units	Nos	2						
6.7	Transportation, Storing ,Erection, Testing & Commissioning of 33 kV Class polymer Silicon rubber insulators	Set	2						

6.8	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of Pipe type earthing with all associated materials as per IS 3043	Set	6						
6.9	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of L.T Protection Distribution box with one 750 Amps & Two 400 Amps MCCBs for 500 KVA DTCs	Nos	2						
6.1	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of Metring equipment with 3 CTS & ETV meter etc	Nos	2						
6.11	Erection of Danger boards	Nos	3						
6.12	Transportation, Storing ,Erection, Testing & Commissioning of A.C Devices	Nos	1						
6.13	Transportation, Storing and Construction of Foundations for DTC structures	Nos	3						
6.14	Soil excavation	Nos	3						
6.15	Transportation, Storing of Concrete 1:2:4	Nos	3						
6.16	Transportation, Storing & Construction of Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr	Nos	37.5						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

PACKAGE-II (LOT-1)

Schedule No. 5 - Grand Summary (Annexure-6)			
Schedule No.	Title	Total ¹	
		Foreign	Local
6.1	Plant and Mandatory Spare Parts Supplied from Abroad		
6.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
6.3	Design Services		
6.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Signature of Bidder

PACKAGE-II (LOT-1)

Schedules of Rates and Prices						
PACKAGE-II (LOT-1)						
Schedule No. 6 - Recommended Spare Parts (Annexure-6)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW Local Parts Local Currency	CIF or CIP Imported Parts Foreign Currency	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Signature of Bidder

Schedules of Rates and Prices
PACKAGE-II (LOT-1)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-7)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
7	Supply of Materials for Addition of Power Transformers							
7.1	Supply of Materials for 33 kV bay extensions with associated equipment							
7.1.1	Supply of Materials for Out Door mounting GI structures to with stand 300 KM/hr wind speed for additional Transformers bays		MT	38				
7.1.2	Supply of Materials for 33 kV, Gang Operated Switch, Double Break, 630 A without Earth Switch		Set	10				
7.1.3	Supply of 33 kV Circuit breakers (VCB)		Nos	5				
7.1.4	Supply of 33 kV CT's as per specification		Nos	15				
7.1.5	Supply of 30kV, L.A (metal oxide Polymer type)		Nos	15				
7.2	Supply of 11 kV Switch gear arrangement for Four nos. 11kV Feeder and one no Bus Cupler for 8 MVA 33/11kV S/S		Nos	1				
7.3	Supply of 11 kV Switch gear arrangement for Two nos. 11kV Feeder and one no Bus Cupler for 5 MVA 33/11kV S/S		Nos	4				
7.4	Supply of 9 kV,10 kA LA (metal oxide Polmer type)		Nos	15				
7.5	Supply of 33/11kV, 8.0 MVA, Power transformer with OLTC & accessories as per technical Specification		Nos	1				
7.6	Supply of 33/11kV, 5.0 MVA, Power transformer with OLTC & accessories as per technical Specification		Nos	4				
7.7	Supply of Foundations for Power Transformer & mounting structures		Nos	5				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-7)

Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
7	Supply of Materials for Addition of Power Transformers									
7.1	Supply of Materials for 33 kV bay extensions with associated equipments									
7.1.1	Supply of Materials for Out Door mounting GI structures to with stand 300 KM/hr wind speed for additional Transformers bays	MT	38							
7.1.2	Supply of Materials for 33 kV, Gang Operated Switch, Double Break, 630 A without Earth Switch	Set	10							
7.1.3	Supply of 33 kV Circuit breakers (VCB)	Nos	5							
7.1.4	Supply of 33 kV CT's as per specification	Nos	15							
7.1.5	Supply of 30kV, L.A (metal oxide Polymer type)	Nos	15							
7.2	Supply of 11 kV Switch gear arrangement for Four nos. 11kV Feeder and one no Bus Cupler for 8 MVA 33/11kV S/S	Nos	1							

7.3	Supply of 11 kV Switch gear arrangement for Two nos. 11kV Feeder and one no Bus Cupler for 5 MVA 33/11kV S/S	Nos	4							
7.4	Supply of 9 kV,10 kA LA (metal oxide Polmer type)	Nos	15							
7.5	Supply of 33/11kV, 8.0 MVA, Power transformer with OLTC & accessories as per technical Specification	Nos	1							
7.6	Supply of 33/11kV, 5.0 MVA, Power transformer with OLTC & accessories as per technical Specification	Nos	4							
7.7	Supply of Foundations for Power Transformer & mounting structures	Nos	5							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 - Design Services (Annexure-7)

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 4 - Installation and Other Services (Annexure-7)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
				5	6	7=4x5	8=4x6	9	10
7	Transportation, Storing ,Erection, Testing & Commissioning and Other Services for Addition of Power Transformers								
7.1	Transportation, Storing ,Erection, Testing & Commissioning and Other Services for 33 kV bay extensions with associated switching equipment Galvanised Steel structural materials for ODS & mounting structures to with stand 300 km/hr wind speed for additional Transformers bays	MT	38						
7.1.1	Transportation, Storing ,Erection, Testing & Commissioning of for 33 kV, Gang Operated Switch, Double Break, 630 A without Earth Switch	Set	10						
7.1.2	Transportation, Storing ,Erection, Testing & Commissioning of 33 kV Circuit breakers (VCB)	Nos	5						
7.1.3	Transportation, Storing ,Erection, Testing & Commissioning of 33 kV CTS	Nos	15						
7.1.4	Transportation, Storing ,Erection, Testing & Commissioning of 30kV, L.A (metal oxide Polymer type)	Nos	15						
7.2	Transportation, Storing ,Erection, Testing & Commissioning of 11 kV Switch gear arrangement for Four nos. 11kV Feeder and one no Bus Coupler for 8 MVA 33/11kV S/S	Nos	1						
7.3	Transportation, Storing ,Erection, Testing & Commissioning of 11 kV Switch gear arrangement for Two nos. 11kV Feeder and one no Bus Coupler for 5 MVA 33/11kV S/S	Nos	4						
7.4	Transportation, Storing ,Erection, Testing & Commissioning and of 9 kV,10 kA LA (metal oxide Polymer type)	Nos	15						
7.5	Transportation, Storing ,Erection, Testing & Commissioning of Power transformer 8.0 MVA 33/11 kV with OLTC & accessories as per technical Specification	Nos	1						

7.6	Transportation, Storing ,Erection, Testing & Commissioning and of Power transformer 5.0 MVA 33/11 kV with OLTC & accessories as per technical Specification	Nos	4						
7.7	Transportation, Storing and Construction of Foundations for Power Transformers, Station & mounting structures	Nos	5						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 5 - Grand Summary (Annexure-7)			
Schedule No.	Title	Total ¹	
		Foreign	Local
7)7.1	Plant and Mandatory Spare Parts Supplied from Abroad		
7.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
7.3	Design Services		
7.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices						
PACKAGE-II (LOT-1)						
Schedule No. 6 - Recommended Spare Parts (Annexure-7)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices
PACKAGE-II (LOT-1)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-8)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 =5 x 7	9
8	Supply of materials for Existing 33/11 kV Substation Up-gradation and switch yard modification							
8.1	Supply of Materials for raising the plat form of 33/11kV Sub station upto 2mtr. Height of area 30X30 to avoid the flooding		Cum	18000				
8.2	Supply of materials for Control room as per layout drawing		Nos	10				
8.3	Supply of materials for Outdoor mounting (GI) structures to with stand 300 KM/hr wind speed		MT	100				
8.4	Supply of materials for 33 kV indoor Control Switch gears							
8.4.1	Supply of materials for 33 kV switch gear indoor type with VCBs, CTs ,PTs and C.R panels etc complete Set as per Technical specification		Nos	34				
8.5	Supply of materials for 11 kV indoor Control Switch gears							
8.5.1	Supply of materials for 11 kV switch gear indoor with with VCBs, CTs ,PTs and C.R panels etc complete Set as per Technical Specification		Nos	51				
8.6	Supply of materials for laying of XLPE UG cable							
8.6.1	Supply of 33 kV,UG Cable, Single Core, XLPE Insulated, 300 sq mm Copper		Mtr	5000				
8.6.2	Supply of 33 kV,UG Cable, Single Core, XLPE Insulated, 35 sq mm Copper		Mtr	11000				
8.6.3	Supply of 11 kV,UG Cable, Single Core, XLPE Insulated, 400 sq mm Copper		Mtr	18700				
8.7	Supply of materials for Outdoor heat shrink type cable termination kit (for 33kV , 11kV, UG Cable, XLPE Insulated, Copper)							

8.7.1	Supply of Outdoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Power Transformer)		Nos	132				
8.7.2	Supply of Outdoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Line)		Nos	88				
8.7.3	Outdoor heat shrink type cable termination kit, XLPE Single core, 35sqmm, 33kV		Nos	44				
8.7.4	Supply of Outdoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (Power Transformer)		Nos.	88				
8.7.5	Supply of Outdoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (11kV Feeder)		Nos.	308				
8.8	Supply of materials for Indoor heat shrink type cable termination kit (for 33kV , 11kV, UG Cable, XLPE Insulated, Copper)							
8.8.1	Supply of Indoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Power Transformer)		Nos.	88				
8.8.2	Supply of Indoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Line)		Nos.	44				
8.8.3	Supply of Indoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (Power Transformer)		Nos.	88				
8.8.4	Supply of Indoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (11kV Feeder)		Nos.	308				
8.9	Supply of materials of Control Cables of different sizes and LT cables		LS	1				
8.10	Supply of 30 kV LA (metal oxide Polymer type)		Nos.	300				
8.11	Supply of Beam Mounted 33kV, 1250A, Single Isolator Double break With Earth Switch (For Line) - Outdoor Type		Set	20				
8.12	Supply of 33kV, 200A, Horizontal type AB Switch complete Set (for Station Trf. 100KVA, 33/0.4kV)		Set	10				
8.13	Supply of 33kV HG Fuse (for Station Trf. 100KVA, 33/0.4kV)		Set	10				
8.14	Supply of 9kV, Metal Oxide, Surge Arrester -Outdoor type		Nos.	363				
8.15	Supply of 11kV, 1250A, Single Isolator Double break With Earth Switch		Set	77				
8.16	Supply of 100 KVA 33/0.4kV Energy efficient Distribution Transformer		Nos.	1				
8.17	Supply of LTDB for 100KVA, 33/0.4kV Station Transformer		Nos.	1				

8.18	Supply of 36kV, IVT (33/√3 / 110/√3)		Nos.	30				
8.19	Supply of 110V, 100 AH, Battery Set		Set	20				
8.20	Supply of Battery charger 110 V, 100 AH		Nos.	10				
8.21	Supply of A.C. Switchboard		Nos.	10				
8.22	Supply of D.C Switchboard		Nos.	10				
8.23	Supply of Earth mat for 33/11 kV Substation as per design		Nos.	10				
8.24	Supply of materials for all Civil works, Foundations for Power Transformers, Station & mounting structures, Cable trench inside and outside. control room and switch yard lighting, water supply arrangements, control room accessories etc. of one 33/11 kV Substation		Nos.	10				
8.25	Supply of Misc items required for completeness of the project if not included above		LS	1				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices
PACKAGE-II (LOT-1)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-8)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
8	Supply of materials for Existing 33/11 kV Substation Up-gradation and switch yard modification									
8.1	Supply of Materials for raising the plat form of 33/11kV Sub station upto 2mtr. Height of area 30X30 to avoid the flooding	Cum	18000							
8.2	Supply of materials for Control room as per layout drawing	Nos.	10							
8.3	Supply of materials for Outdoor mounting (GI) structures to with stand 300 KM/hr wind speed	MT	100							
8.4	Supply of materials for 33 kV indoor Control Switch gears									
8.4.1	Supply of materials for 33 kV switch gear indoor type with VCBs, CTs, PTs and C.R panels etc complete Set as per Technical specification	Nos.	34							
8.5	Supply of materials for 11 kV indoor Control Switch gears									
8.5.1	Supply of materials for 11 kV switch gear indoor with with VCBs, CTs, PTs and C.R panels etc complete Set as per Technical Specification	Nos.	51							
8.6	Supply of materials for laying of XLPE UG cable									
8.6.1	Supply of 33 kV, UG Cable, Single Core, XLPE Insulated, 300 sq mm Copper	Mtr	5000							
8.6.2	Supply of 33 kV, UG Cable, Single Core, XLPE Insulated, 35 sq mm Copper	Mtr	11000							
8.6.3	Supply of 11 kV, UG Cable, Single Core, XLPE Insulated, 400 sq mm Copper	Mtr	18700							
8.7	Supply of materials for Outdoor heat shrink type cable termination kit (for 33kV , 11kV, UG Cable, XLPE Insulated, Copper)									

8.7.1	Supply of Outdoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Power Transformer)	Nos.	132							
8.7.2	Supply of Outdoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Line)	Nos.	88							
8.7.3	Outdoor heat shrink type cable termination kit, XLPE Single core, 35sqmm, 33kV	Nos.	44							
8.7.4	Supply of Outdoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (Power Transformer)	Nos.	88							
8.7.5	Supply of Outdoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (11kV Feeder)	Nos.	308							
8.8	Supply of materials for Indoor heat shrink type cable termination kit (for 33kV , 11kV, UG Cable, XLPE Insulated, Copper)									
8.8.1	Supply of Indoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Power Transformer)	Nos.	88							
8.8.2	Supply of Indoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Line)	Nos.	44							
8.8.3	Supply of Indoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (Power Transformer)	Nos.	88							
8.8.4	Supply of Indoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (11kV Feeder)	Nos.	308							
8.9	Supply of materials of Control Cables of differenet sizes and LT cables	LS	1							
8.10	Supply of 30 kV LA (metal oxide Polymer type)	Nos.	300							
8.11	Supply of Beam Mounted 33kV, 1250A, Single Isolator Double break With Earth Switch (For Line) - Outdoor Type	Set	20							
8.12	Supply of 33kV, 200A, Horizontal type AB Switch complete Set (for Station Trf. 100KVA, 33/0.4kV)	Set	10							
8.13	Supply of 33kV HG Fuse (for Station Trf. 100KVA, 33/0.4kV)	Set	10							

8.14	Supply of 9kV, Metal Oxide, Surge Arrester -Outdoor type	Nos.	363							
8.15	Supply of 11kV, 1250A, Single Isolator Double break With Earth Switch	Set	77							
8.16	Supply of 100 KVA 33/0.4kV Energy efficient Distribution Transformer	Nos.	1							
8.17	Supply of LTDB for 100KVA, 33/0.4kV Station Transformer	Nos.	1							
8.18	Supply of 36kV, IVT (33/√3 / 110/√3)	Nos.	30							
8.19	Supply of 110V, 100 AH, Battery Set	Set	20							
8.20	Supply of Battery charger 110 V, 100 AH	Nos.	10							
8.21	Supply of A.C. Switchboard	Nos.	10							
8.22	Supply of D.C Switchboard	Nos.	10							
8.23	Supply of Earth mat for 33/11 kV Substation as per design	Nos.	10							
8.24	Supply of materials for all Civil works, Foundations for Power Transformers, Station & mounting structures, Cable trench inside and outside. control room and switch yard lighting ,water supply arrangements, control room accessories etc. of one 33/11 kV Substation	Nos.	10							
8.25	Supply of Misc items required for completeness of the project if not included above	LS	1							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder

Signature of Bidder

Schedule No. 3 - Design Services (Annexure-8)

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 4 - Installation and Other Services (Annexure-8)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
				5	6	7=4x5	8=4x6	9	10
8	Transportation, Storing ,Erection, Testing & Commissioning and Other Services for Existing 33/11 kV Substation renovation and switch yard modification								
8.1	Transportation, Storing , Erection, Testing & Commissioning and Other Services for raising the plat form of 33/11kV Sub station upto 2mtr. height of area 30X30 to avoid the flooding	Cum	18000						
8.2	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of Control room	Nos.	10						
8.3	Transportation, Storing ,Erection, Testing & Commissioning of Outdoor mounting (GI) structures to with stand 300 km/hr wind speed	MT	100						
8.4	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of 33 kV indoor Switch gears								
8.4.1	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of 33 kV switch gear indoor type with VCBs, CTs, PTs and C&R panels etc complete set	Nos.	34						
8.5	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of 11 kV indoor Switch gears								

8.5.1	Transportation, Storing ,Erection, Testing & Commissioning of 11 kv switch gear indoor with VCBs, CTs, PTs and C&R panels etc complete set	Nos.	51						
8.6	Transportation, Storing ,Testing & Commissioning and Other Services of Laying of 33kV, UG Cable, Single Core, XLPE Insulated Copper								
8.6.1	33 kV XLPE Cables 1 core 300 sq mm copper	Mtr	5000						
8.6.2	33 kV XLPE Cables 1 core 35 sq mm copper	Mtr	11000						
8.6.3	11 kV XLPE Cables 1 core 400 sq mm copper	Mtr	18700						
8.7	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of Outdoor heat shrink type cable termination kit (for 33kV , 11kV HT XLPE cable)								
8.7.1	Erection, Testing & Commissioning of Outdoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Power Transformer)	Nos.	132						
8.7.2	Erection, Testing & Commissioning of Outdoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Line)	Nos.	88						
8.7.3	Erection, Testing & Commissioning of Outdoor heat shrink type cable termination kit, XLPE Single core, 35sqmm, 33kV	Nos.	44						
8.7.4	Erection, Testing & Commissioning of Outdoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (Power Transformer)	Nos.	88						
8.7.5	Erection, Testing & Commissioning of Outdoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (11kV Feeder)	Nos.	308						
8.8	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of Indoor heat shrink type cable termination kit (for 33kV , 11kV HT XLPE cable)		132						
8.8.1	Erection, Testing & Commissioning of Indoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Power Transformer)	Nos.	88						

8.8.2	Erection, Testing & Commissioning of Indoor heat shrink type cable termination kit for 33 kV, Single core XLPE 300sqmm Copper Cable (Line)	Nos.	44						
8.8.3	Erection, Testing & Commissioning of Indoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (Power Transformer)	Nos.	88						
8.8.4	Erection, Testing & Commissioning of Indoor heat shrink type cable termination kit for 11 kV, Single core XLPE 400sqmm Copper Cable (11kV Feeder)	Nos.	308						
8.9	Transportation, Storing ,Laying, Testing & Commissioning of Control Cables of different sizes and LT cables	LS	1						
8.10	Transportation, Storing ,Erection, Testing & Commissioning of 30 kV LA (metal oxide Polymer type)	Nos.	300						
8.11	Transportation, Storing, Erection, Testing & Commissioning of Beam Mounted 33kV, 1250A, Single Isolator Double break With Earth Switch (For Line) - Outdoor Type	Sets	20						
8.12	Transportation, Storing, Erection, Testing & Commissioning of 33kV, 200A, Horizontal type AB Switch complete Set (for Station Trf. 100KVA, 33/0.4kV)	Sets	10						
8.13	Transportation, Storing ,Erection, Testing & Commissioning of 33kV HG Fuse (for Station Trf. 100KVA, 33/0.4kV) set	Sets	10						
8.14	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of 9kV, Metal Oxide, Surge Arrester -Outdoor type	Nos.	363						
8.15	Transportation, Storing ,Erection, Testing & Commissioning of 11kV, 1250A, Single Isolator Double break With Earth Switch	Sets	77						
8.16	Transportation, Storing ,Erection, Testing & Commissioning of 100 KVA 33/0.4kV Energy efficient Distribution Transformer	Nos.	1						
8.17	Transportation, Storing ,Erection, Testing & Commissioning of LTDB for 100KVA, 33/0.4kV Station Transformer	Nos.	1						

8.18	Transportation, Storing ,Erection, Testing & Commissioning of 36kV, Single Phase, IVT (33/√3 / 110/√3)	Nos.	30						
8.19	Transportation, Storing ,Erection, Testing & Commissioning of 110V, 100 AH, Battery Set	Sets	20						
8.20	Transportation, Storing ,Erection, Testing & Commissioning of Battery charger 110 V, 100 AH	Nos.	10						
8.21	Transportation, Storing ,Erection, Testing & Commissioning of A.C. Switchboard	Nos.	10						
8.22	Transportation, Storing ,Erection, Testing & Commissioning of D.C Switchboard	Nos.	10						
8.23	Transportation, Storing ,Erection, Testing & Commissioning of Earth mat as per design	Nos.	10						
8.24	Transportation, Storing ,Construction of all civil works, Foundations for Power Transformers, Station & mounting structures, Cable trench inside and outside. control room and switch yard lighting, water supply arrangements, control room accessories etc	Nos.	10						
8.25	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of Misc items required for completeness of the project	LS	1						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-1)

Schedule No. 5 - Grand Summary (Annexure-8)			
Schedule No.	Title	Total ¹	
		Foreign	Local
8)8.1	Plant and Mandatory Spare Parts Supplied from Abroad		
8.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
8.3	Design Services		
8.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices						
PACKAGE-II (LOT-1)						
Schedule No. 6 - Recommended Spare Parts (Annexure-8)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
					TOTAL	

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

ABSTRACT of PACKAGE-II (LOT-1)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
1	Annexure-1							
2	Annexure-2							
3	Annexure-3							
4	Annexure-4							
5	Annexure-5							
6	Annexure-6							
7	Annexure-7							
8	Annexure-8							
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

ABSTRACT of PACKAGE-II (LOT-1)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
1	Annexure-1									
2	Annexure-2									
3	Annexure-3									
4	Annexure-4									
5	Annexure-5									
6	Annexure-6									
7	Annexure-7									
8	Annexure-8									
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

ABSTRACT of PACKAGE-II (LOT-1)

Schedule No. 3 - Design Services

[illegible]

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

ABSTRACT of PACKAGE-II (LOT-1)

Schedule No. 4 - Installation and Other Services									
Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
1	Annexure-1								
2	Annexure-2								
3	Annexure-3								
4	Annexure-4								
5	Annexure-5								
6	Annexure-6								
7	Annexure-7								
8	Annexure-8								
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices
ABSTRACT of PACKAGE-II (LOT-1)

Schedule No. 5 - Grand Summary			
Schedule No.	Title	Total ¹	
		Foreign	Local
1	Annexure-1		
2	Annexure-2		
3	Annexure-3		
4	Annexure-4		
5	Annexure-5		
6	Annexure-6		
7	Annexure-7		
8	Annexure-8		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices						
ABSTRACT of PACKAGE-II (LOT-1)						
Schedule No. 6 - Recommended Spare Parts						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
					TOTAL	

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices
PACKAGE-II (LOT-2)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-1)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 =5 x 7	9
1	Supply of materials for laying of 11kV, Three Core, UG Cable, XLPE Insulated, 300 sq.mm (main line), and 240 sqmm (loop line) Aluminium (Drum size: 300m)							
1.1	Supply of 11kV, Three Core, UG Cable, XLPE Insulated, 300 sqmm (main line), and 240 sq.mm (loop line) Aluminium with extruded semi conducting screen and corrugated Aluminium Sheath (Drum size: 300m)		Km	170.60				
1.2	Supply of Straight Through joint for Three Core ,UG Cable, XLPE Insulated, 300 sq mm and 240 sqmm Aluminium		Nos	557				
1.3	Supply of Termination kit for Three Core,UG Cable, XLPE Insulated, 300 sq mm and 240 sqmm Aluminium		Nos	1388				
1.4	Supply of High Density Polyethylene(HDPE) pipe 10 inch diameter for Road/Railway crossing		Km	33.45				
1.5	Supply of 24 inch/18 inch RCC Cover Tiles		Km	167.25				
1.6	Supply of four (4) way motorised Main RMU with FPI SCADA automation with RMU foundation, earthing & fencing		Nos	75				
1.7	Supply of three (3) way motorized Mini RMU with FPI SCADA automation with RMU foundation, earthing & fencing		Nos	272				
1.8	Supply of Compact type, Packaged Sub-station 11kV/433 V ,750 KVA transformer with foundation, earthing & fencing		Nos	59				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices
PACKAGE-II (LOT-2)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-1)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
1	Supply of materials for laying of 11kV, Three Core, UG Cable, XLPE Insulated, 300 sqmm (main line), and 240 sqmm (loop line) Aluminium (Drum size: 300m)									
1.1	Supply of 11kV, Three Core, UG Cable, XLPE Insulated, 300 sqmm (main line), and 240 sqmm (loop line) Aluminium with extruded semi conducting screen and corrugated Aluminium Sheath (Drum size: 300m)	Km	170.60							
1.2	Supply of Straight Through joint for Three Core,UG Cable, XLPE Insulated, 300 sq mm and 240 sqmm Aluminium	Nos	557							
1.3	Supply of Termination kit for Three Core,UG Cable, XLPE Insulated, 300 sq mm and 240 sqmm Aluminium	Nos	1388							

1.4	Supply of High Density Polyethylene(HDPE) pipe 10 inch diameter for Road/Railway crossing	Km	33.45							
1.5	Supply of 24 inch/18 inch RCC Cover Tiles	Km	167.25							
1.6	Supply of four (4) way motorised Main RMU with FPI SCADA automation with RMU foundation, earthing & fencing	Nos	75							
1.7	Supply of three (3) way motorized Mini RMU with FPI SCADA automation with RMU foundation, earthing & fencing	Nos	272							
1.8	Supply of Compact type, Packaged Sub-station 11kV/433 V ,750 KVA transformer with foundation, earthing & fencing	Nos	59							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder

Signature of Bidder

Schedule No. 3 - Design Services (Annexure-1)

Schedules of Rates and Prices

PACKAGE-II (LOT-2)

Schedule No. 4 - Installation and Other Services (Annexure-1)									
Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
1	Transporting, Storing, Laying, Testing and Commissioning of and Other Services Of materials for laying of 11kV, Three Core, UG Cable, XLPE Insulated 300sqmm and 240 sq.mm Aluminium								
1.1	Transporting, Storing, Laying , Testing and Commissioning of 11kV, Three Core, UG Cable, XLPE Insulated, 300sqmm and 240 sq.mm Aluminium (80% of total length through Open Trench)	km	133.8						
1.2	Transporting, Storing, Laying , Testing and Commissioning of 11kV, Three Core, UG Cable, XLPE Insulated, 300sqmm and 240 sq.mm Aluminium (20% of total length through Micro Tunneling)	km	33.45						
1.3	Reconstruction of damaged road & other utilities to bring its original shape after laying of cable in open trench.	km	133.8						
1.4	Transporting, Storing, Laying of HDPE Pipe.	km	33.45						
1.5	Marking of Cable Route including Civil Works	LS	1						
1.6	Transporting, Storing, Erection, Testing and Commissioning of Straight Through joint for Three Core,UG Cable, XLPE Insulated, 300 sq mm and 240 sqmm Aluminium	Nos	557						

1.7	Transporting, Storing, Erection, Testing and Commissioning of Termination kit for Three Core, UG Cable, XLPE Insulated, 300 sq mm and 240 sqmm Aluminium	Nos	1388						
1.8	Transportation, Storing, Installation, Testing & Commissioning of four (4) way motorised Main RMU with FPI SCADA automation with RMU foundation, earthing & fencing	Nos	75						
1.9	Transportation, Storing, Installation, Testing & Commissioning of three (3) way motorised Mini RMU with FPI SCADA automation with RMU foundation, earthing & fencing	Nos	272						
1.10	Transportation, Storing, Installation, Testing & Commissioning of Compact type, Packaged Sub-station 11kV/433 V ,750 KVA transformer with foundation, earthing fencing	Nos	59						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-2)

Schedule No. 5 - Grand Summary (Annexure-1)			
Schedule No.	Title	Total ¹	
		Foreign	Local
1)1.1	Plant and Mandatory Spare Parts Supplied from Abroad		
1.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
1.3	Design Services		
1.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices						
PACKAGE-II (LOT-2)						
Schedule No. 6 - Recommended Spare Parts (Annexure-1)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
					TOTAL	

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-2)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 =5 x 7	9
2	Supply of materials for construction of 11kV OH Line in H-Type GI Structures with 100 sq.mm AAAC conductors							
2.1	Supply of materials for GI type self supporting H- Pole suitable to withstand 300 km/h wind speed for 11 kV D/C lines		Nos	3880				
2.2	Supply of AAAC 100 sq.mm. Conductor for D/C Line		Km	945.17				
2.3	Supply of 11 kV Polymer silicon Insulators for Tangent towers		Sets	15831				
2.4	Supply of Single suspension hardware for AAAC 100 sq mm Conductor		Sets	15831				
2.5	Supply of 11 kV Polymer silicon Insulators for Tension towers		Sets	7450				
2.6	Supply of Single tension hardware for AAAC 100 sq mm Conductor		Sets	7450				
2.7	Supply of Earth electrodes for AAAC 100 sq mm Conductor		Nos	3880				
2.8	Supply of Danger Boards		Nos	3880				
2.9	Supply of Circuit plates (Set of 2)		Nos	3880				
2.10	Supply of Phase plates (set of 6)		Sets	3880				
2.11	Supply of Number plates		Nos	3880				
2.12	Supply of Anti climbing devices		Sets	3880				
2.13	Supply of Foundations for Pole structures: Soil excavation & Concrete 1:2:4		Cum	5377.68				

2.14	Supply of Compact type, Packaged Sub-station 11/.433 kV ,750 KVA transformer with foundation, earthing & fencing		Nos	43				
2.15	Supply of Three (3) way Gang Operated Switch (GOS)		Nos	24				
2.16	Supply of four (4) way motorised Main RMU with FPI SCADA automation with RMU foundation, earthing & fencing		Nos	4				
2.17	Supply of 11kV, Three Core, UG Cable, XLPE Insulated, 240 sqmm Aluminium		Mtr	3550				
2.18	Supply of Cable Termination		Nos	102				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-2)

Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
2	Supply of materials for construction of 11kV OH Line in H-Type GI Structures with 100 sq.mm AAAC conductors									
2.1	Supply of materials for GI type self-supporting H- Pole suitable to withstand 300 km/h wind speed for 11 kV D/C lines	Nos	3880							
2.2	Supply of AAAC 100 sqmm. Conductor for D/C Line	Km	945.17							
2.3	Supply of 11 kV Polymer silicon Insulators for Tangent towers	Sets	15831							
2.4	Supply of Single suspension hardware for AAAC 100 sq mm Conductor	Sets	15831							
2.5	Supply of 11 kV Polymer silicon Insulators for Tension towers	Sets	7450							
2.6	Supply of Single tension hardware for AAAC 100 sq mm Conductor	Sets	7450							
2.7	Supply of Earth electrodes for AAAC 100 sq mm Conductor	Nos	3880							
2.8	Supply of Danger Boards	Nos	3880							
2.9	Supply of Circuit plates (Set of 2)	Nos	3880							
2.10	Supply of Phase plates (set of 6)	Sets	3880							

2.11	Supply of Number plates	Nos	3880							
2.12	Supply of Anti climbing devices	Sets	3880							
2.13	Supply of Foundations for Pole structures: Soil excavation & Concrete 1:2:4	Cum	5377.7							
2.14	Supply of Compact type, Packaged Sub-station 11/.433 kV ,750 KVA transformer with foundation, earthing & fencing	Nos	43							
2.15	Supply of Three (3) way Gang Operated Switch (GOS)	Nos	24							
2.16	Supply of four (4) way motorised Main RMU with FPI SCADA automation with RMU foundation, earthing & fencing	Nos	4							
2.17	Supply of 11kV, Three Core, UG Cable, XLPE Insulated, 240 sqmm Aluminium	Mtr	3550							
2.18	Supply of Cable Termination	Nos	102							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder

Signature of Bidder

Schedule No. 3 - Design Services (Annexure-2)

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 4 - Installation and Other Services (Annexure-2)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
2	Transportation, Storing ,Installation, Testing & Commissioning and Other Services of 11kV OH Line in H-Type GI Structures with 100 sq.mm AAAC conductors								
2.1	Transportation, Storing, Erection, Testing & Commissioning of GI type self-supporting H- Pole suitable to withstand 300 km/h wind speed for 11 kV D/C lines	Nos	3880						
2.2	Transportation, Storing , Stringing of AAAC 100 sq.mm. Conductor for D/C Line	Km	945.17						
2.3	Transportation, Storing & fixing of 11 kV Polymer silicon Insulators for Tangent towers	Sets	15831						
2.4	Transportation, Storing & fixing of Single suspension hardware for AAAC 100 sq mm Conductor	Sets	15831						
2.5	Transportation, Storing & fixing of 11 kV Polymer silicon Insulators for Tension towers	Sets	7450						
2.6	Transportation, Storing & fixing of Single tension hardware for AAAC 100 sq mm Conductor	Sets	7450						
2.7	Transportation, Storing ,Installation, Testing & Commissioning of Earth electrodes for AAAC 100 sq mm Conductor	Nos	3880						
2.8	Fixing of Danger Boards	Nos	3880						
2.9	Fixing of Circuit plates (Set of 2)	Nos	3880						

2.10	Fixing of Phase plates (set of 6)	Sets	3880						
2.11	Fixing of Number plates	Nos	3880						
2.12	Fixing of Anti climbing devices	Sets	3880						
2.13	Fixing of Foundations for Pole structures: Soil excavation & Concrete 1:2:4	Cum	5377.7						
2.14	Transportation, Storing, Installation, Testing & Commissioning of Compact type, Packaged Sub-station 11/.433 KV ,750 KVA transformer with foundation, earthing & fencing	Nos	43						
2.15	Transportation, Storing, Erection, Testing & Commissioning of Three (3) way Gang Operated Switch (GOS)	Nos	24						
2.16	Transportation, Storing, Installation, Testing & Commissioning of four (4) way motorised Main RMU with FPI SCADA automation with RMU foundation, earthing & fencing	Nos	4						
2.17	Transportation, Storing, erection, Testing & Commissioning of 11kV, Three Core, UG Cable, XLPE Insulated, 240 sqmm Aluminium	Mtr	3550						
2.18	Transportation, Storing, erection, Testing & Commissioning of Cable Termination	Nos	102						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE-II (LOT-2)

Schedule No. 5 - Grand Summary (Annexure-2)			
Schedule No.	Title	Total ¹	
		Foreign	Local
2)2.1	Plant and Mandatory Spare Parts Supplied from Abroad		
2.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
2.3	Design Services		
2.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices						
PACKAGE-II (LOT-2)						
Schedule No. 6 - Recommended Spare Parts (Annexure-2)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-3)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 =5 x 7	9
3	Supply of materials for New 11/0.4 kV, 315 & 100 kVA Distribution Transformer:							
3.1	Supply of Materials for GI D.P. Structure designed to with stand 300 Km/Hr wind speed for DTC for both 100kVA(15nos) & 315 KVA(17nos) DTCs.		MT	12.096				
3.2	Supply of Materials for Masonry Plat form 1.5X1.5X2.5 Mtrs for placing the Transformers.		Set	32				
3.3	Supply of 11 kV Class polymer Silicon rubber insulators.		Nos	192				
3.4	Supply of 11/0.433 kV 3 Ph 50Hz, 315 KVA capacity distribution Transformers with oil & off load Tap Changers.		Nos	17				
3.5	Supply of 11/0.433 kV 3 Ph 50Hz, 100 KVA capacity distribution Transformers with oil & off load Tap Changers.		Nos	15				
3.6	Supply of LAs 9 kV 10 kA Gap less metal oxide Polmer type.		Nos	96				
3.7	Supply of Materials for 11 kV Class single break Isolators 200 Amps.		Set	32				
3.8	Supply of Materials for 11kV class H.G Fuse units for protection on 11 kV side.		Set	32				
3.9	Supply of Materials for L.T Protection Distribution box with one 500 Amps & Two 250 Amps MCCBs for 315 KVA DTCs.		Set	17				
3.10	Supply of Materials for L.T Protection Distribution box with one 200 Amps MCCBs for 100 KVA DTCs.		Set	15				
3.11	Supply of Materials for Metring equipment with 3 CTS & ETV meter etc.		Set	32				

3.12	Supply of Materials for Pipe type earthing with all associated materials as per IS 3043.		Set	96				
3.13	Supply of Danger boards		Nos	32				
3.14	Supply of Materials for A.C Devices		Set	32				
3.15	Supply of Materials for Foundations for DTC structures : Soil excavation & Concrete 1:2:4		Cum	408				
3.16	Supply of Materials for Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr with gate & locking arrangements		Sq Mtr	5440				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-3)

Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
3	Supply of materials for New 11/0.4 kV, 315 & 100 kVA Distribution Transformer:									
3.1	Supply of Materials for GI D.P. Structure designed to with stand 300 Km/Hr wind speed for DTC for both 100kVA(15nos) & 315 KVA(17nos) DTCs.	MT	12.096							
3.2	Supply of Materials for Masonry Plat form 1.5X1.5X2.5 Mtrs for placing the Transformers.	Set	32							
3.3	Supply of 11 kV Class polymer Silicon rubber insulators.	Nos	192							
3.4	Supply of 11/0.433 kV 3 Ph 50Hz, 315 KVA capacity distribution Transformers with oil & off load Tap Changers.	Nos	17							
3.5	Supply of 11/0.433 kV 3 Ph 50Hz, 100 KVA capacity distribution Transformers with oil & off load Tap Changers.	Nos	15							
3.6	Supply of LAs 9 kV 10 kA Gap less metal oxide Polmer type.	Nos	96							
3.7	Supply of Materials for 11 kV Class single break Isolators 200 Amps.	Set	32							
3.8	Supply of Materials for 11kV class H.G Fuse units for protection on 11 kV side.	Set	32							
3.9	Supply of Materials for L.T Protection Distribution box with one 500 Amps & Two 250 Amps MCCBs for 315 KVA DTCs.	Set	17							
3.10	Supply of Materials for L.T Protection Distribution box with one 200 Amps MCCBs for 100 KVA DTCs.	Set	15							
3.11	Supply of Materials for Metring equipment with 3 CTS & ETV meter etc.	Set	32							

3.12	Supply of Materials for Pipe type earthing with all associated materials as per IS 3043.	Set	96							
3.13	Supply of Danger boards	Nos	32							
3.14	Supply of Materials for A.C Devices	Set	32							
3.15	Supply of Materials for Foundations for DTC structures : Soil excavation & Concrete 1:2:4	Cum	408							
3.16	Supply of Materials for Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr with gate & locking arrangements	Sq.Mtr	5440							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder

Signature of Bidder

Schedule No. 3 - Design Services (Annexure-3)

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

Package-II (LOT-2)

Schedule No. 4 - Installation and Other Services (Annexure-3)									
Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
3	Transportation, Storing ,Erection, Testing & Commissioning and Other Services of New 11/0.4 kV, 315 & 100 kVA Distribution Transformer:								
3.1	Transportation, Storing ,Erection of GI D.P. Structure designed to with stand 300 Km/Hr wind speed for DTC for both 100kVA(15nos) & 315 KVA(17nos) DTCs.	MT	12.096						
3.2	Transportation, Storing , Erection of Masonry Plat form 1.5X1.5X2.5 Mtrs for placing the Transformers.	Set	32						
3.3	Transportation, Storing &fixing of 11 kV Class polymer Silicon rubber insulators.	Nos	192						
3.4	Transportation, Storing ,Erection, Testing & Commissioning of 11/0.433 kV 3 Ph 50Hz, 315 KVA capacity distribution Transformers with oil & off load Tap Changers.	Nos	17						
3.5	Transportation, Storing ,Erection, Testing & Commissioning of 11/0.433 kV 3 Ph 50Hz, 100 KVA capacity distribution Transformers with oil & off load Tap Changers.	Nos	15						
3.6	Transportation, Storing ,Erection, Testing & Commissioning of LA 9 kV 10 kA Gap less metal oxide Polmer type.	Nos	96						

3.7	Transportation, Storing , Erection, Testing & Commissioning of 11 kV Class single break Isolators 200 Amps.	Set	32						
3.8	Transportation, Storing , Erection, Testing & Commissioning of 11kV class H.G Fuse units for protection on 11 kV side.	Set	32						
3.9	Transportation, Storing ,Erection, Testing & Commissioning of L.T Protection Distribution box with one 500 Amps & Two 250 Amps MCCBs for 315 KVA DTCs.	Set	17						
3.10	Transportation, Storing ,Erection, Testing & Commissioning of L.T Protection Distribution box with one 200 Amps MCCBs for 100 KVA DTCs.	Set	15						
3.11	Transportation, Storing ,Erection, Testing & Commissioning of Metring equipment with 3 CTS & ETV meter etc.	Set	32						
3.12	Transportation, Storing ,Erection, Testing & Commissioning of Pipe type earthing with all associated materials as per IS 3043.	Set	96						
3.13	Erection of Danger boards	Nos	32						
3.14	Transportation, Storing ,Erection, Testing & Commissioning of A.C Devices	Set	32						
3.15	Transportation, Storing and Construction of Foundations for DTC structures : Soil excavation & Concrete 1:2:4	Cum	408						
3.16	Transportation, Storing & Construction of Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr with gate & locking arrangements	Sq Mtr	5440						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE-II (LOT-2)

Schedule No. 5 - Grand Summary (Annexure-3)			
Schedule No.	Title	Total ¹	
		Foreign	Local
3)3.1	Plant and Mandatory Spare Parts Supplied from Abroad		
3.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
3.3	Design Services		
3.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices						
PACKAGE-II (LOT-2)						
Schedule No. 6 - Recommended Spare Parts (Annexure-3)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
					TOTAL	

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-4)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
4	Supply of Materials for Up gradation of 11/0.4 kV, DTCs with higher capacity :							
4.1	Supply of Materials for G.I .D.P. Structure designed to with stand 300 Km/Hr wind speed for DTC for 100kVA (32nos), 315kVA(40nos) & 500 KVA (15nos)		MT	32.89				
4.2	Supply of Materials for Masonry Plat form 1.5X1.5X2.5 Mtrs for placing the Transformers		Set	87				
4.3	Supply of Materials for 11 kV Class polymer Silicon rubber insulators		Nos	522				
4.4	Supply of Materials for 11/0.433 kV 3 Ph 50Hz, 100 KVA capacity distribution Transformers with oil & off load Tap Changers		Nos	32				
4.5	Supply of Materials for 11/0.433 kV 3 Ph 50Hz, 315 KVA capacity distribution Transformers with oil & off load Tap Changers		Nos	40				
4.6	Supply of Materials for 11/0.433 kV 3 Ph 50Hz, 500 KVA capacity distribution Transformers with oil & off load Tap Changers		Nos	15				
4.7	Supply of Materials for LA 9 kV 10 kA Gap less metal oxide Polmer type		Nos	261				
4.8	Supply of Materials for 11 kV Class single break Isolators 200 Amps		Set	87				
4.9	Supply of Materials for 11kV class H.G Fuse units for protection on 11 kV side		Set	87				
4.10	Supply of Materials for L.T Protection Distribution box with one 800 Amps & Two 400 Amps MCCBs for 500 KVA DTCs		Set	15				

4.11	Supply of Materials for L.T Protection Distribution box with one 500 Amps & Two 250 Amps MCCBs for 315 MVA DTCs		Set	40				
4.12	Supply of Materials for L.T Protection Distribution box with one 200 Amps MCCBs for 100 kVA DTCs		Set	32				
4.13	Supply of Materials for Metring equipment with 3 CTS & ETV meter etc		Set	87				
4.14	Supply of Materials for Pipe type earthing with all associated materials as per IS 3043		Set	261				
4.15	Supply of Materials for Danger boards		Set	87				
4.16	Supply of Materials for A.C Devices		Set	87				
4.17	Supply of Materials for Foundations for Transformer structures: Soil excavation & Concrete 1:2:4		Cum	261				
4.18	Supply of Materials for Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr with gate & locking arrangements		Sq Mtr	3480				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder

Signature of Bidder

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices
PACKAGE--II (LOT-2)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-4)										
Item	Description	Unit	Qty	EXW Unit Price¹	Total EXW Price¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
4	Supply of Materials for Up gradation of 11/0.4 kV, DTCs with higher capacity :									
4.1	Supply of Materials for G.I .D.P.Structure designed to with stand 300 Km/Hr wind speed for DTC for 100kVA (32nos), 315kVA(40nos) & 500 KVA (15nos)	MT	32.89							
4.2	Supply of Materials for Masanary Plat form 1.5X1.5X2.5 Mtrs for placing the Transformers	Set	87							
4.3	Supply of Materials for 11 kV Class polymer Silicon rubber insulators	Nos	522							
4.4	Supply of Materials for 11/0.433 kV 3 Ph 50Hz, 100 KVA capacity distribution Transformers with oil & off load Tap Changers	Nos	32							
4.5	Supply of Materials for 11/0.433 kV 3 Ph 50Hz, 315 KVA capacity distribution Transformers with oil & off load Tap Changers	Nos	40							
4.6	Supply of Materials for 11/0.433 kV 3 Ph 50Hz, 500 KVA capacity distribution Transformers with oil & off load Tap Changers	Nos	15							
4.7	Supply of Materials for LA 9 kV 10 kA Gap less metal oxide Polmer type	Nos	261							
4.8	Supply of Materials for 11 kV Class single break Isolators 200 Amps	Set	87							
4.9	Supply of Materials for 11kV class H.G Fuse units for protection on 11 kV side	Set	87							
4.10	Supply of Materials for L.T Protection Distribution box with one 800 Amps & Two 400 Amps MCCBs for 500 KVA DTCs	Set	15							

4.11	Supply of Materials for L.T Protection Distribution box with one 500 Amps & Two 250 Amps MCCBs for 315 MVA DTCs	Set	40							
4.12	Supply of Materials for L.T Protection Distribution box with one 200 Amps MCCBs for 100 kVA DTCs	Set	32							
4.13	Supply of Materials for Metring equipment with 3 CTS & ETV meter etc	Set	87							
4.14	Supply of Materials for Pipe type earthing with all associated materials as per IS 3043	Set	261							
4.15	Supply of Materials for Danger boards	Set	87							
4.16	Supply of Materials for A.C Devices	Set	87							
4.17	Supply of Materials for Foundations for Transformer structures: Soil excavation & Concrete 1:2:4	Cum	261							
4.18	Supply of Materials for Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr with gate & locking arrangements	Sq Mtr	3480							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 - Design Services (Annexure-4)

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 4 - Installation and Other Services (Annexure-4)									
Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
4	Transportation, Storing ,Erection, Testing & Commissioning and Other Services for Up gradation of 11/0.4 kV, DTCs with higher capacity :								
4.1	Transportation, Storing ,Erection of G.I .D.P.Structure designed to with stand 300 Km/Hr wind speed for DTC for 100kVA (32nos), 315kVA(40nos) & 500 KVA (15nos)	MT	32.89						
4.2	Transportation, Storing ,Erection of Masanary Plat form 1.5X1.5X2.5 Mtrs for placing the Transformers	Set	87						
4.3	Transportation, Storing &fixing of 11 kV Class polymer Silicon rubber insulators	Nos	522						
4.4	Transportation, Storing ,Erection, Testing & Commissioning of 11/0.433 kV 3 Ph 50Hz, 100 KVA capacity distribution Transformers with oil & off load Tap Changers	Nos	32						
4.5	Transportation, Storing ,Erection, Testing & Commissioning of 11/0.433 kV 3 Ph 50Hz, 315 KVA capacity distribution Transformers with oil & off load Tap Changers	Nos	40						
4.6	Transportation, Storing ,Erection, Testing & Commissioning of 11/0.433 kV 3 Ph 50Hz, 500 KVA capacity distribution Transformers with oil & off load Tap Changers	Nos	15						
4.7	Transportation, Storing ,Erection, Testing & Commissioning of LA 9 kV 10 kA Gap less metal oxide Polmer type	Nos	261						
4.8	Transportation, Storing ,Erection, Testing & Commissioning of 11 kV Class single break Isolators 200 Amps	Set	87						

4.9	Transportation, Storing ,Erection, Testing & Commissioning of 11kV class H.G Fuse units for protection on 11 kV side	Set	87						
4.10	Transportation, Storing ,Erection, Testing & Commissioning of L.T Protection Distribution box with one 800 Amps & Two 400 Amps MCCBs for 500 KVA DTCs	Set	15						
4.11	Transportation, Storing ,Erection, Testing & Commissioning of L.T Protection Distribution box with one 500 Amps & Two 250 Amps MCCBs for 315 MVA DTCs	Set	40						
4.12	Transportation, Storing ,Erection, Testing & Commissioning of L.T Protection Distribution box with one 200 Amps MCCBs for 100 kVA DTCs	Set	32						
4.13	Transportation, Storing ,Erection, Testing & Commissioning of Metring equipment with 3 CTS & ETV meter etc	Set	87						
4.14	Transportation, Storing ,Erection, Testing & Commissioning of Pipe type earthing with all associated materials as per IS 3043	Set	261						
4.15	Erection of Danger boards	Set	87						
4.16	Transportation, Storing ,Erection, Testing & Commissioning of A.C Devices	Set	87						
4.17	Transportation, Storing and Construction of Foundations for Transformer structures: Soil excavation & Concrete 1:2:4	Cum	261						
4.18	Transportation, Storing and Construction of Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr with gate & locking arrangements	Sq Mtr	3480						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-2)

Schedule No. 5 - Grand Summary (Annexure-4)			
Schedule No.	Title	Total ¹	
		Foreign	Local
4)4.1	Plant and Mandatory Spare Parts Supplied from Abroad		
4.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
4.3	Design Services		
4.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices						
PACKAGE-II (LOT-2)						
Schedule No. 6 - Recommended Spare Parts (Annexure-4)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
					TOTAL	

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-5)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
5	Supply of materials for Renovation of existing 11/0.4 kV, DTCs							
5.1	Supply of Materials for G.I .D.P. Structure designed to with stand 300 Km/Hr wind speed for DTC for 25,63,100,200,250, 315 KVA (539nos) DTCs		MT	203.742				
5.2	Supply of Materials for Masanary Plat form 1.5X1.5X2.5 Mtrs for placing the Transformers		Set	539				
5.3	Supply of Materials for 11 kV Class polymer Silicon rubber insulators		Nos	3234				
5.4	Supply of Materials for LA 9 kV 10 kA Gap less metal oxide Polmer type		Nos	1617				
5.5	Supply of Materials for Pipe type earthing with all associated materials as per IS 3043		Set	1617				
5.6	Supply of Materials for Danger boards		Nos	539				
5.7	Supply of Materials for Anti Climbing Devices		Set	539				
5.8	Supply of Materials for Foundations for DTC structures: Soil excavation & Concrete 1:2:4		Cum	1617				
5.9	Supply of Materials for Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr with gate & locking arrangements		Sq Mtr	21560				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-5)

Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
5	Supply of materials for Renovation of existing 11/0.4 kV, DTCs									
5.1	Supply of Materials for G.I .D.P. Structure designed to with stand 300 Km/Hr wind speed for DTC for 25,63,100,200,250, 315 KVA (539nos) DTCs	MT	203.742							
5.2	Supply of Materials for Masanary Plat form 1.5X1.5X2.5 Mtrs for placing the Transformers	Set	539							
5.3	Supply of Materials for 11 kV Class polymer Silicon rubber insulators	Nos	3234							
5.4	Supply of Materials for LA 9 kV 10 kA Gap less metal oxide Polmer type	Nos	1617							
5.5	Supply of Materials for Pipe type earthing with all associated materials as per IS 3043	Set	1617							
5.6	Supply of Materials for Danger boards	Nos	539							
5.7	Supply of Materials for Anti Climbing Devices	Set	539							
5.8	Supply of Materials for Foundations for DTC structures: Soil excavation & Concrete 1:2:4	Cum	1617							
5.9	Supply of Materials for Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr with gate & locking arrangements	Sq Mtr	21560							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 - Design Services (Annexure-5)

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 4 - Installation and Other Services (Annexure-5)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
5	Transportation, Storing ,Erection, Testing & Commissioning and Other Services for Renovation of existing 11/0.4 kV, DTCs								
5.1	Transportation, Storing ,Erection of G.I .D.P.Structure designed to with stand 300 Km/Hr wind speed for DTC for 25,63,100,200,250, 315 KVA (539nos) DTCs	MT	203.742						
5.2	Transportation, Storing ,Erection of Masanary Plat form 1.5X1.5X2.5 Mtrs for placing the Transformers	Set	539						
5.3	Transportation, Storing &fixing of 11 kV Class polymer Silicon rubber insulators	Nos	3234						
5.4	Transportation, Storing ,Erection, Testing & Commissioning of LA 9 kV 10 kA Gap less metal oxide Polmer type	Nos	1617						
5.5	Transportation, Storing ,Erection, Testing & Commissioning of Pipe type earthing with all associated materials as per IS 3043	Set	1617						
5.6	Fixing of Danger boards	Nos	539						
5.7	Fixing of Anti Climbing Devices	Set	539						
5.8	Transportation, Storing and Construction of Foundations for Transformer structures: Soil excavation & Concrete 1:2:4	Cum	1617						
5.9	Transportation, Storing and Construction of Fencing around DTC with expanded metal - Size 5 X 3X 2.5 Mtr with gate & locking arrangements	Sq Mtr	21560						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

PACKAGE-II (LOT-2)

Schedule No. 5 - Grand Summary (Annexure-5)			
Schedule No.	Title	Total ¹	
		Foreign	Local
5)5.1	Plant and Mandatory Spare Parts Supplied from Abroad		
5.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
5.3	Design Services		
5.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

PACKAGE-II (LOT-2)

Schedules of Rates and Prices						
PACKAGE-II (LOT-2)						
Schedule No. 6 - Recommended Spare Parts (Annexure-5)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW Local Parts Local Currency	CIF or CIP Imported Parts Foreign Currency	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Schedules of Rates and Prices
PACKAGE--II (LOT-2)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-6)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
6	Supply of materials for Conversion of LT Overhead line to 1.1kV, Three half Core, UG Cable, PVC insulation armoured, 240 sq.mm Aluminium:							
6.1	Supply of 1.1 kV, Three half core, UG Cable, PVC insulation armoured, 240 sq mm Aluminium		Km	400				
6.2	Supply of Straight through Joint for Three half core, UG Cable, PVC insulation armoured, 240 sq mm Aluminium		Nos.	1600				
6.3	Supply of Epoxy Terminating kit (pothead) suitable for 1.1 kV, Three half core, UG Cable, PVC insulation armoured, 240 sq mm Aluminium		Nos.	3200				
6.4	Supply of Compression type Aluminium Tubular in line connector for Aluminium conductor		Nos.	6400				
6.5	Supply of Heavy duty Copper terminals for 240 sq mm L.T.UG Cable		Nos.	12800				
6.6	Supply of Other Miscellaneous materials like, sand for filling, RCC Hume pipes, stone ware pipes, PVC pipes for road & foot path crossing, earthing etc		L/S	1				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-6)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
6	Supply of materials for Conversion of LT Overhead line to 1.1kV, Three half Core, UG Cable, PVC insulation armoured, 240 sq.mm Aluminium:									
6.1	Supply of 1.1 kV, Three half core, UG Cable, PVC insulation armoured, 240 sq mm Aluminium	Km	400							
6.2	Supply of Straight through Joint for Three half core, UG Cable, PVC insulation armoured, 240 sq mm Aluminium	Nos.	1600							
6.3	Supply of Epoxy Terminating kit (pothead) suitable for 1.1 kV, Three half core, UG Cable ,PVC insulation armoured, 240 sq mm Aluminium	Nos.	3200							
6.4	Supply of Compression type Aluminium Tubular in line connector for Aluminium conductor	Nos.	6400							
6.5	Supply of Heavy duty Copper terminals for 240 sq mm L.T.UG Cable	Nos.	12800							
6.6	Supply of Other Miscellaneous materials like, sand for filling, RCC hume pipes, stone ware pipes, PVC pipes for road & foot path crossing, earthing etc	L/S	1							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 - Design Services (Annexure-6)

Not Applicable

Signature of Bidder

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 4 - Installation and Other Services (Annexure-6)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
6	Transporting, Storing, Laying, Testing and Commissioning of and Other Services Of materials for Conversion of LT Overhead line to 1.1kV, Three half Core, UG Cable, PVC insulation armoured, 240 sq.mm Aluminium:								
6.1	Transporting, Storing, Laying, Testing and Commissioning of 1.1 kV, Three half core, UG Cable ,PVC insulation armoured, 240 sq mm Aluminium	Km	400						
6.2	Transporting, Storing, Erection, Testing and Commissioning of Straight through Joint for Three half core, UG Cable, PVC insulation armoured, 240 sq mm Aluminium	Nos.	1600						
6.3	Transporting, Storing, Erection, Testing and Commissioning of Epoxy Terminating kit (pothead) suitable for 1.1 kV, Three half core, UG Cable, PVC insulation armoured, 240 sq mm Aluminium	Nos.	3200						
6.4	Transporting, Storing, Erection, Testing and Commissioning of Compression type Aluminium Tubular in line connector for Aluminium conductor	Nos.	6400						
6.5	Supply of Transporting, Storing, Laying, Testing and Commissioning of 240 sq mm L.T.UG Cable	Nos.	12800						
6.6	Transporting, Storing, Erection of Other Miscellaneous materials like, sand for filling, RCC hume pipes, stone ware pipes, PVC pipes for road & foot path crossing, earthing etc	L/S	1						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE-II (LOT-2)

Schedule No. 5 - Grand Summary (Annexure-6)			
Schedule No.	Title	Total ¹	
		Foreign	Local
6)6.1	Plant and Mandatory Spare Parts Supplied from Abroad		
6.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
6.3	Design Services		
6.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices						
PACKAGE-II (LOT-2)						
Schedule No. 6 - Recommended Spare Parts (Annexure-6)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-7)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
7	Supply of materials for Conversion of LT Overhead line to Aerial Bunch Conductor (ABC) Conductor							
7.1	Supply of Materials for 1.1 kV, Three Core, Class, three Phase Aerial Bunch Conductor (ABC) 95 sqmm and 70 Sqmm.		km	1314				
7.2	Supply of Materials for Aerial Bunch Conductor (ABC) straight through Joint kits suitable for 95 sqmm		Sets	3885				
7.3	Supply of Materials for T-Joints		Sets	15540				
7.4	Supply of Materials for termination kits		Sets	19425				
7.5	Supply of Materials for Suspension clamp assembly including pole clamps		Sets	38850				
7.6	Supply of Materials for Dead end clamp/Anchor clamp assembly including brackets, pole clamps		Sets	15540				
7.7	Supply of End caps		Nos	12950				
7.8	Supply of Special Tools & tackles for Emergency Maintenance							
7.8.1	Supply of Mobile Substation of 33/0.433 KV		Nos	3				
7.8.2	Supply of 11/0.4 kV Transformers		Nos	10				
7.8.3	Supply of Hydraulic Ladder		Nos	2				
7.8.4	Supply of Generator (1000 kVA) with Lighting system		Nos	6				
7.8.5	Supply of Motorized Hacksaw		Nos	10				
7.8.6	Supply of Materials for Spare Tower Parts		MT	10				
7.8.7	Supply of Cable Fault Locator		Nos	3				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-7)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
7	Supply of materials for Conversion of LT Overhead line to Aerial Bunch Conductor (ABC) Conductor									
7.1	Supply of Materials for 1.1 kV, Three Core, Class, three Phase Aerial Bunch Conductor (ABC) 95 sqmm and 70 Sqmm.	km	1314.4							
7.2	Supply of Materials for Aerial Bunch Conductor (ABC) straight through Joint kits suitable for 95 sqmm	Sets	3885							
7.3	Supply of Materials for T-Joints	Sets	15540							

7.4	Supply of Materials for termination kits	Sets	19425							
7.5	Supply of Materials for Suspension clamp assembly including pole clamps	Sets	38850							
7.6	Supply of Materials for Dead end clamp/Anchor clamp assembly including brackets, pole clamps	Sets	15540							
7.7	Supply of End caps	Nos	12950							
7.8	Supply of Special Tools & tackles for Emergency Maintenance									
7.8.1	Supply of Mobile Substation of 33/0.433 KV	Nos	3							
7.8.2	Supply of 11/0.4 kV Transformers	Nos	10							
7.8.3	Supply of Hydraulic Ladder	Nos	2							
7.8.4	Supply of Generator (1000 kVA) with Lighting system	Nos	6							
7.8.5	Supply of Motorized Hacksaw	Nos	10							
7.8.6	Supply of Materials for Spare Tower Parts	MT	10							
7.8.7	Supply of Cable Fault Locator	Nos	3							
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 - Design Services (Annexure-7)

Not Applicable

Signature of Bidder

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 4 - Installation and Other Services (Annexure-7)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
7	Transportation, Storing ,Erection, Testing & Commissioning and Other Services for Conversion of LT Overhead line to Aerial Bunch Conductor (ABC)								
7.1	Transportation, Storing ,Erection, Testing & Commissioning of 1.1 kV, Three Core, Class, Three Phase, 95 sqmm and 70 Sqmm Aerial Bunch Conductor (ABC)	km	1314.4						
7.2	Transportation, Storing ,Erection, Testing & Commissioning of straight through Joint kits suitable for 95 sqmm Aerial Bunch Conductor (ABC)	Sets	3885						
7.3	Transportation, Storing ,Erection, Testing & Commissioning of T-Joints	Sets	15540						
7.4	Transportation, Storing ,Erection, Testing & Commissioning of termination kits	Sets	19425						
7.5	Transportation, Storing ,Erection, Testing & Commissioning of Suspension clamp assembly including pole clamps	Sets	38850						
7.6	Transportation, Storing ,Fixing, Testing & Commissioning of Dead end clamp/Anchor clamp assembly including brackets, pole clamps	Sets	15540						
7.7	Fixing of End caps	Nos	12950						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

PACKAGE-II (LOT-2)

Schedule No. 5 - Grand Summary (Annexure-7)			
Schedule No.	Title	Total ¹	
		Foreign	Local
7.1	Plant and Mandatory Spare Parts Supplied from Abroad		
7.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
7.3	Design Services		
7.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

PACKAGE-II (LOT-2)

Schedules of Rates and Prices						
PACKAGE-II (LOT-2)						
Schedule No. 6 - Recommended Spare Parts (Annexure-7)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW Local Parts Local Currency	CIF or CIP Imported Parts Foreign Currency	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-8)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
8	Supply of materials for L.T.,1.1 kV Galvanized sheet metal weather proof, vermin proof Distribution Feeder pillar boxes with two (2) Nos MCCBs and smart meters provision for (24 Nos Single phase + 8 Nos Three Phase) consumer installations. (As per details in specification)							
8.1	Supply of materials for LT Feeder Pillar box made up of G.I. Sheet , with two MCCBs 630 Amp for incomer & outgoing for loop cables. Eight (8) Nos 63 Amp and twenty four(24) nos 16 Amp MCBs .Bus bar for three Phases & neutral, Fibre board insulation for the inside surface. (As per details in specification)		Set.	1000				
8.2	Supply of materials for LT Feeder Pillar box for LT Existing OH Line:-LT Feeder Pillar box made out of G.I. Sheet steel, with two MCCBs, 630 A for incomer & Outgoing feeder .Two MCCBs 400A for outgoing OH LT feeders. Bus bar for three Phases & neutral, Fibre board insulation for the inside surface (As per details in specification)		Set.	163				
8.3	Supply of materials for Smart meters with accessories 2 Nos for each Box for recording the energy input to L.T .feeder Pillar Box, to individual consumers, protection to the service mains communication facilities to transfer on line data to central station.		Set.	2326				
8.4	Supply of materials for foundation & Galvanized Fencing around L.T. F.P. Boxes		Nos.	1163				
8.5	Supply of materials for Pipe type Earthing (Single Electrode with accessories) with GI Flat 50x6mm size		Set.	1163				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices
PACKAGE--II (LOT-2)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-8)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
8	Supply of materials for L.T.,1.1 kV Galvanized sheet metal weather proof, vermin proof Distribution Feeder pillar boxes with two (2) Nos MCCBs and smart meters provision for (24 Nos Single phase + 8 Nos Three Phase) consumer installations.(As per details in specification)									
8.1	Supply of materials for LT Feeder Pillar box made up of G.I. Sheet , with two MCCBs 630 Amp for incomer & outgoing for loop cables. Eight (8) Nos 63 Amp and twenty four(24) nos 16 Amp MCBs .Bus bar for three Phases & neutral, Fibre board insulation for the inside surface. (As per details in specification)		Set.	1000						
8.2	Supply of materials for LT Feeder Pillar box for LT Existing OH Line:-LT Feeder Pillar box made out of G.I. Sheet steel, with two MCCBs, 630 A for incomer & Outgoing feeder .Two MCCBs 400A for outgoing OH LT feeders. Bus bar for three Phases & neutral, Fibre board insulation for the inside surface (As per details in specification)		Set.	163						

8.3	Supply of materials for Smart meters with accessories 2 Nos for each Box for recording the energy input to L.T. feeder Pillar Box, to individual consumers, protection to the service mains communication facilities to transfer on line data to central station.		Set.	2326						
8.4	Supply of materials for foundation & Galvanized Fencing around L.T .F.P. Boxes		Nos.	1163						
8.5	Supply of materials for Pipe type Earthing (Single Electrode with accessories) with GI Flat 50x6mm size		Set.	1163						
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder

Signature of Bidder

Schedule No. 3 - Design Services (Annexure-8)

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 4 - Installation and Other Services (Annexure-8)

Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
8	Transportation, Storing ,Installation, Testing & Commissioning and Other Services of materials for L.T.,1.1 kV Galvanized sheet metal weather proof, vermin proof Distribution Feeder pillar boxes with 2(Two) Nos MCCBs and smart meters provision for (24 Nos Single phase + 8 Nos Three Phase) consumer installations.								
8.1	Transportation, Storing , Installation, Testing & Commissioning of LT Feeder Pillar box made up of G.I. Sheet , with two MCCBs 630 Amp for incomer & outgoing for loop cables. Eight (8) Nos 63 Amp and twenty four(24) nos 16 Amp MCBs .Bus bar for three Phases & neutral, Fibre board insulation for the inside surface. (As per details in specification)	Set.	1000						
8.2	Transportation, Storing ,Installation, Testing & Commissioning of LT Feeder Pillar box for LT Existing OH Line:-LT Feeder Pillar box made out of G.I. Sheet steel, with two MCCBs, 630 A for incomer & Outgoing feeder .Two MCCBs 400A for outgoing OH LT feeders. Bus bar for three Phases & neutral, Fibre board insulation for the inside surface	Set.	163						
8.3	Transportation, Storing ,Installation, Testing & Commissioning of Smart meters with accessories 2(Two) Nos for each Box for recording the energy input to L.T.feeder Pillar Box,to individual consumers, protection to the service mains communication facilities to transfer on line data to central station.	Set.	2326						

8.4	Transportation, Storing and Construction of foundation, Galvanized Fencing around L.T. F.P. Boxes including civil works.	Nos.	1163						
8.5	Transportation, Storing ,Installation, Testing & Commissioning of Pipe type Earthing (Single Electrode with accessories) with GI Flat 50x6mm size	Set.	1163						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

PACKAGE-II (LOT-2)

Schedule No. 5 - Grand Summary (Annexure-8)			
Schedule No.	Title	Total ¹	
		Foreign	Local
8)8.1	Plant and Mandatory Spare Parts Supplied from Abroad		
8.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
8.3	Design Services		
8.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices						
PACKAGE-II (LOT-2)						
Schedule No. 6 - Recommended Spare Parts (Annexure-8)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices

PACKAGE--II (LOT-2)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad (Annexure-9)								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
9	Supply of materials for Intermediate poles for L.T. Lines							
9.1	Supply of Materials for R.S Joists 200X100 mm 9 Mtrs long		Nos.	4855				
9.2	Supply of Materials for 1.1 kV Class pin insulators		Nos.	19420				
9.3	Supply of Materials for Spiral type earthing		Nos.	4845				
9.4	Supply of Materials for Guy sets with break insulators & Guy wire		Sets.	9710				
9.5	Supply of Materials for Danger boards		Nos.	4855				
9.6	Supply of Materials for Anti Climbing Devices		Sets	4845				
9.7	Supply of Materials for Foundations for Pole structures: Soil excavation & Concrete 1:2:4		Cum	14535				
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices
PACKAGE--II (LOT-2)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country (Annexure-9)										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax	Total Sales Tax	Entry	Total Entry Tax	Total Price
						(CST/VAT)	(CST/VAT)	Tax		
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
9	Supply of materials for Intermediate poles for L.T. Lines									
9.1	Supply of Materials for R.S Joists 200X100 mm 9 Mtrs long	Nos.	4855							
9.2	Supply of Materials for 1.1 kV Class pin insulators	Nos.	19420							
9.3	Supply of Materials for Spiral type earthing	Nos.	4845							
9.4	Supply of Materials for Guy sets with break insulators & Guy wire	Sets	9710							
9.5	Supply of Materials for Danger boards	Nos.	4855							
9.6	Supply of Materials for A.C Devices	Sets	4845							
9.7	Supply of Materials for Foundations for Pole structures: Soil excavation & Concrete 1:2:4	Cum	14535							
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder _____

Signature of Bidder _____

Schedule No. 3 - Design Services (Annexure-9)

Schedules of Rates and Prices
PACKAGE--II (LOT-2)

Schedule No. 4 - Installation and Other Services (Annexure-9)									
Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
9	Transportation, Storing, Erection & Commissioning and Other Services of Intermediate poles for L.T. Lines								
9.1	Transportation, Storing, Erection of R.S Joists 200X100 mm 9 Mtrs long	Nos.	4855						
9.2	Transportation, Storing & Fixing of 1.1 kV Class pin insulators	Nos.	19420						
9.3	Transportation, Storing, Installation, Testing & Commissioning of Spiral type earthing	Nos.	4845						
9.4	Transportation, Storing, Erection of Guy sets with break insulators & Guy wire	Sets	9710						
9.5	Erection of Danger boards	Nos.	4855						
9.6	Transportation, Storing, Erection, Testing & Commissioning of A.C Devices	Sets	4845						
9.7	Transportation, Storing & Construction of Foundations for Pole structures: Soil excavation & Concrete 1:2:4	Cum	14535						
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

PACKAGE-II (LOT-2)

Schedule No. 5 - Grand Summary (Annexure-9)			
Schedule No.	Title	Total ¹	
		Foreign	Local
9)9.1	Plant and Mandatory Spare Parts Supplied from Abroad		
9.2	Plant and Mandatory Spare Parts Supplied from Within the Employer's Country		
9.3	Design Services		
9.4	Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Bid			

PACKAGE-II (LOT-2)

Schedules of Rates and Prices						
PACKAGE-II (LOT-2)						
Schedule No. 6 - Recommended Spare Parts (Annexure-9)						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW Local Parts Local Currency	CIF or CIP Imported Parts Foreign Currency	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL						

Schedules of Rates and Prices

ABSTRACT of PACKAGE-II (LOT-2)

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad								
Item	Description	Country of Origin	Unit	Qty.	Unit Price ¹		Total Price ¹	Taxes and Duties
					Foreign Currency	CIF or CIP	Foreign Currency	Local Currency
1	2	3	4	5	6	7	8 = 5 x 7	9
1	Annexure-1							
2	Annexure-2							
3	Annexure-3							
4	Annexure-4							
5	Annexure-5							
6	Annexure-6							
7	Annexure-7							
8	Annexure-8							
9	Annexure-9							
TOTAL Column 8 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder _____

Signature of Bidder _____

Country of Origin Declaration Form

Item	Description	Country

Schedules of Rates and Prices

ABSTRACT of PACKAGE-II (LOT-2)

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from Within the Employer's Country										
Item	Description	Unit	Qty	EXW Unit Price ¹	Total EXW Price ¹	Sales Tax (CST/VAT)	Total Sales Tax (CST/VAT)	Entry Tax	Total Entry Tax	Total Price
1	2	3	4	5	6=4x5	7	8=4x7	9	10=4x9	11=6+8+10
1	Annexure-1									
2	Annexure-2									
3	Annexure-3									
4	Annexure-4									
5	Annexure-5									
6	Annexure-6									
7	Annexure-7									
8	Annexure-8									
9	Annexure-9									
TOTAL Column 6 to be carried forward to Schedule No. 5. Grand Summary										

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices ABSTRACT of PACKAGE-II (LOT-2)

Schedule No. 3 - Design Services

Item	Description	Qty.	Unit Price ¹		Total Price ¹	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
TOTAL Columns 6 and 7 to be carried forward to Schedule No. 5. Grand Summary						

Name of Bidder

Signature of Bidder

Schedules of Rates and Prices

ABSTRACT of PACKAGE-II (LOT-2)

Schedule No. 4 - Installation and Other Services									
Item	Description	Unit	Qty.	Unit Price ¹		Total Price ¹		Unit Service Tax	Total Service Tax
				Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Local Currency Portion
1	2	3	4	5	6	7=4x5	8=4x6	9	10
1	Annexure-1								
2	Annexure-2								
3	Annexure-3								
4	Annexure-4								
5	Annexure-5								
6	Annexure-6								
7	Annexure-7								
8	Annexure-8								
9	Annexure-9								
TOTAL Columns 7 and 8 to be carried forward to Schedule No. 5. Grand Summary									

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices
ABSTRACT of PACKAGE-II (LOT-2)

Schedule No. 5 - Grand Summary			
Schedule No.	Title	Total ¹	
		Foreign	Local
1	Annexure-1		
2	Annexure-2		
3	Annexure-3		
4	Annexure-4		
5	Annexure-5		
6	Annexure-6		
7	Annexure-7		
8	Annexure-8		
9	Annexure-9		
GRAND TOTAL to be carried forward to Letter of Bid			

Name of Bidder _____

Signature of Bidder _____

Schedules of Rates and Prices						
ABSTRACT of PACKAGE-II (LOT-2)						
Schedule No. 6 - Recommended Spare Parts						
Item	Description	Qty	Unit Price ¹		Total Price ¹	
			EXW	CIF or CIP	Local Currency Portion	Foreign Currency Portion
			Local Parts	Imported Parts		
			Local Currency	Foreign Currency		
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Not Applicable						
					TOTAL	

Name of Bidder _____

Signature of Bidder _____

Bid Security

Bank Guarantee

..... *Bank's Name, and Address of Issuing Branch or Office*

Beneficiary: *Name and Address of Employer*

Date:

Bid Security No.:

We have been informed that *name of the Bidder*. (hereinafter called "the Bidder") has submitted to you its bid dated (hereinafter called "the Bid") for the execution of *name of contract* under Invitation for Bids No. ("the IFB").

Furthermore, we understand that, according to your conditions, bids must be supported by a bid guarantee.

At the request of the Bidder, we *name of Bank*. hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *amount in figures* (*amount in words*) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified by the Bidder in the Form of Bid; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) 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 Agreement, or (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This guarantee will expire: (a) if the Bidder is the successful Bidder, upon our receipt of copies of the Contract Agreement signed by the Bidder and the performance security issued to you upon the instruction of the Bidder; and (b) if the Bidder is not

the successful Bidder, upon the earlier of (i) our receipt of a copy your notification to the Bidder of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of the Bidder's bid.

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

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458.

. *.Bank's seal and authorized signature(s)*

Note: All italicized text is for use in preparing this form and shall be deleted from the final document

Form of Bid-Securing Declaration

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

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

Alternative No.: *[insert identification No if this is a Bid for an alternative]*

To: *[insert complete name of Employer]*

We, the undersigned, declare that:

We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration.

We accept that we will automatically be suspended from being eligible for bidding in any contract with the Borrower for the period of time of *[insert number of months or years]* starting on the date that we receive a notification from the Employer, if we are in breach of our obligation(s) under the bid conditions, because we:

- (a) have withdrawn our Bid during the period of bid validity specified in the Form of Bid; or
- (b) having been notified of the acceptance of our Bid by the *Employer* during the period of bid validity, (i) fail or refuse to execute the Contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the ITB.

We understand this Bid-Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of (i) our receipt of your notification to us of the name of the successful Bidder; or (ii) twenty-eight days after the expiration of our Bid.

Signed: *[insert signature of person whose name and capacity are shown]* in the capacity of *[insert legal capacity of person signing the Bid-Securing Declaration]*

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

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

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

Corporate Seal (where appropriate)

[Note: In case of a Joint Venture, the Bid-Securing Declaration must be in the name of all partners to the Joint Venture that submits the bid.]

Technical Proposal

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Personnel

Equipment

Proposed Subcontractors for Major Items of Plant and Services

Time Schedule

Site Organization

Method Statement

Mobilization Schedule

Construction Schedule

Equipment

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 3 (Evaluation and Qualification Criteria). 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	<table border="1"> <tr> <td>Name of manufacturer</td> <td>Model and power rating</td> </tr> <tr> <td>Capacity</td> <td>Year of manufacture</td> </tr> </table>	Name of manufacturer	Model and power rating	Capacity	Year of manufacture
	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	

Proposed Subcontractors/Manufacturers for Major Items of Plant and Services

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 Services	Proposed Subcontractors/Manufacturers	Nationality

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. The Bidder shall include it in its bid, if so indicated in the BDS.]

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

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

To: *[insert complete name of Employer]*

WHEREAS

We *[insert complete name of Manufacturer or Manufacturer's authorized agent]*, who are official manufacturers or agent authorized by the manufacturer 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 of the General Conditions of Contract, with respect to the goods offered by the above firm.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: *[insert title]*

Duly authorized to sign this Authorization on behalf of: *[insert complete name of Bidder]*

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

Time Schedule**Not Applicable**

To be used by Bidder when alternative Time for Completion is invited in ITB 13.2.

Bidders Qualification

To establish its qualifications to perform the contract in accordance with Section 3 (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder. If the bidding was preceded by a prequalification process then the forms included in this section and used earlier during the prequalification process need to be completed only if the information submitted at the time of prequalification requires updating.

Form ELI - 1: Bidder's Information Sheet

Bidder's Information	
Bidder's legal name	
In case of JV, legal name of each partner	
Bidder's country of constitution	
Bidder's year of constitution	
Bidder's legal address in country of constitution	
Bidder's authorized representative (name, address, telephone numbers, fax numbers, e-mail address)	
Attached are copies of the following original documents. <ul style="list-style-type: none"> <input type="checkbox"/> 1. In case of single entity, articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2. <input type="checkbox"/> 2. Authorization to represent the firm or JV named in above, in accordance with ITB 22.2. <input type="checkbox"/> 3. In case of JV, letter of intent to form JV or JV agreement, in accordance with ITB 4.1. <input type="checkbox"/> 4. In case of a government-owned entity, any additional documents not covered under 1 above required to comply with ITB 4.5. 	

Form ELI - 2: JV Information Sheet

Each member of a JV must fill in this form

JV Information	
Bidder's legal name	
JV Partner's legal name	
JV Partner's country of constitution	
JV Partner's year of constitution	
JV Partner's legal address in country of constitution	
JV Partner's authorized representative information (name, address, telephone numbers, fax numbers, e-mail address)	
Attached are copies of the following original documents. <input type="checkbox"/> 1. Articles of incorporation or constitution of the legal entity named above, in accordance with ITB 4.1 and 4.2. <input type="checkbox"/> 2. Authorization to represent the firm named above, in accordance with ITB 22.2. <input type="checkbox"/> 3. In the case of government-owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITB 4.5.	

Form LIT - Pending Litigation

Each Bidder or member of a JV must fill in this form

Pending Litigation			
<input type="checkbox"/> <input type="checkbox"/> No pending litigation in accordance with Criteria 2.2 of Section 3 (Evaluation and Qualification Criteria)			
<input type="checkbox"/> Pending litigation in accordance with Criteria 2.2 of Section 3 (Evaluation and Qualification Criteria)			
Year	Matter in Dispute	Value of Pending Claim in US\$ Equivalent	Value of Pending Claim as a Percentage of Net Worth

Form FIN - 1: Financial Situation

Each Bidder or member of a JV must fill in this form

Financial Data for Previous 3 Years [US\$ Equivalent]				
Year 1:	Year 2:	Year 3:	Year 4:	Year5:

Information from Balance Sheet

Total Assets					
Total Liabilities					
Net Worth					
Current Assets					
Current Liabilities					

Information from Income Statement

Total Revenues					
Profits Before Taxes					
Profits After Taxes					

- ☐ Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last three years, as indicated above, complying with the following conditions.
- All such documents reflect the financial situation of the Bidder or partner to a JV, and not sister or parent companies.
 - Historic financial statements must be audited by a certified accountant.
 - Historic financial statements must be complete, including all notes to the financial statements.
- ☐ Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

Form FIN - 2: Average Annual Turnover

Each Bidder or member of a JV must fill in this form

Annual Turnover Data for the best 3 Years out of last 5 years			
Year	Amount Currency	Exchange Rate	US\$ Equivalent
Average Annual Turnover			

The information supplied should be the Annual Turnover of the Bidder or each member of a JV in terms of the amounts billed to clients for each year for contracts in progress or completed, converted to US Dollars at the rate of exchange at the end of the period reported.

Form FIN – 3: Financial Resources

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 3 (Evaluation and Qualification Criteria)

Financial Resources		
No.	Source of financing	Amount (US\$ equivalent)
1		
2		
3		

Form FIN- 4: Current Contract Commitments

Bidders and each partner to 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.

Current Contract Commitments					
	Name of Contract	Employer's Contact Address, Tel, Fax	Value of Outstanding Work [Current US\$ Equivalent]	Estimated Completion Date	Average Monthly Invoicing Over Last Six Months [US\$/month]
1					
2					
3					
4					
5					

Form EXP – 1: General Experience

Each Bidder or member of a JV must fill in this form

General Experience				
Starting Month Year	Ending Month Year	Years	Contract Identification and Name Name and Address of Employer Brief Description of the Works Executed by the Bidder	Role of Bidder

Form EXP – 2(a): Specific Experience

Fill up one (1) form per contract.

Contract of Similar Size and Nature		
Contract No of	Contract Identification	
Award Date		Completion Date
Role in Contract	<input type="checkbox"/> Contractor <input type="checkbox"/> Management Contractor <input type="checkbox"/> Subcontractor	
Total Contract Amount	US\$	
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone/Fax Number E-mail		
Description of the similarity in accordance with Criteria 2.4.2(a) of Section 3		

Form EXP - 2(b): Specific Experience in Key Activities

Fill up one (1) form per contract

Contract with Similar Key Activities		
Contract No of	Contract Identification	
Award Date		Completion Date
Role in Contract	<input type="checkbox"/> Contractor <input type="checkbox"/> Management Contractor <input type="checkbox"/> Subcontractor	
Total Contract Amount	US\$	
If partner in a JV or subcontractor, specify participation of total contract amount	Percent of Total	Amount
Employer's Name Address Telephone Number Fax Number E-mail		
Description of the key activities in accordance with Criteria 2.4.2(b) of Section 3		

Annexure-I Commercial questionnaires

ACCEPTANCE OF IMPORTANT CONDITIONS		
1	With reference to bid proposal being submitted to OPTCL against NOTICE INVITING TENDER-NIT NO. TENDER SPECIFICATION NO-.....Package –, we hereby confirm that we have read the provisions of the Tender Specifications in respect following terms and conditions and that notwithstanding anything stated elsewhere to the contrary, we agree that the stipulations of the provisions of the Tender Specifications in respect following terms and conditions are acceptable to us except those declared as “not agreed”.	
	NAME OF THE BIDDER	
	Bid Proposal Ref. No. Dated...	
	Bidder's Address:	
Sl. No	Terms & Conditions	Declaration (Indicate Agreed / Not Agreed)
(a)	Bid Security (EMD)	
(b)	Contract Performance Bank Guarantee	
(c)	Liquidated Damage for delay in completion	
(d)	Price Basis	
(e)	Terms of Payments	
(f)	Bid Validity Period	
(g)	Performance Guarantee, Defects Liability Period and Latent Defects Warranty	
(h)	Work Completion Period	
(i)	Performance Guarantee	
(j)	Performance Bonus	
(k)	The Contractor agrees to supply spare parts for a period of years: 20 years	
(l)	Variation in Quantity	
(m)	Taxes and Duties	
(n)	Limitation of Liability	
(o)	Disputes and Arbitration	
(p)	Indemnity	
(q)	The source of the exchange rate shall be: Telegraphic Transfer selling rate declared by the State Bank of India and the date for the selling exchange rate shall be on the date of Opening of the Technical Bid.	
We hereby undertake to agree to all other terms and conditions of the tender for the purpose of consideration of our bid.		
Note:	Any deviation to the above clauses at Sl. No. (a) through (Q) found anywhere in our bid proposal, implicit or explicit, shall stand unconditionally withdrawn, without any cost implication whatsoever to OPTCL.	

Signature of the Bidder with seal

Annexure-II

Technical questionnaires

ACCEPTANCE OF IMPORTANT CONDITIONS		
1	With reference to bid proposal being submitted to OPTCL against NOTICE INVITING TENDER-NIT NO. TENDER SPECIFICATION NO-.....Package –, we hereby confirm that we have read the provisions of the Tender Specifications in respect following terms and conditions and that notwithstanding anything stated elsewhere to the contrary, we agree that the stipulations of the provisions of the Tender Specifications in respect following terms and conditions are acceptable to us except those declared as “not agreed”.	
	NAME OF THE BIDDER	
	Bid Proposal Ref. No. Dated...	
	Bidder's Address:	
Sl. No	Terms & Conditions	Declaration (Indicate Agreed / Not Agreed)
(a)	Have you furnished according to sub-clause 17.1 of the ITB, a statement of work method, equipment schedules and other information as stipulated in Sufficient details.	
(b)	Have you read sub-clause 36.2 of ITB and 1.1 of Section 3 regarding Technical evaluation and noted the criteria?	
(c)	Have you noted that alternative technical solution have not been allowed in accordance with sub-clause 36.3 of ITB read with sub-clause ITB 36.3 of BDS?	
(d)	Have you noticed the requirement of detailed supply and construction schedules as given in Section 4 of the Bidding Forms?	
(e)	The survey, supply, construction and commissioning schedule has to be completed within the time schedule mentioned in the BDS.	
(f)	Have you carefully gone through the scope of supply of Plant and Services as given in sub-clause 1.1 & 1.2 of Section 6 – Employer's Requirements (where in it has been also mentioned that Employer will Power Transformer) and the requirements under sub-clause 1.3 of Section 6?	
(g)	Have you noted that the successful Bidder has to repair and replace the plant free of cost during Defect Liability period within stipulated time.	
(h)	Please confirm that plants to be supplied shall comply with the technical specification given in Volume II of the Bid documents.	
(i)	The major Items to supplied under the contract shall conform the ICE, ISS and type tested.	
(j)	Have you noted that the Contractor shall have to make its own arrangement to carry out pre-commissioning and Guarantee tests? The Employer will not supply and make available any raw materials, utilities. (Clause GCC 10.5 – Section 8)	
(k)	Agrees to supply spare parts for a period of years: 20 years	
We hereby undertake to agree to all other terms and conditions of the tender for the purpose of consideration of our bid.		
Note:	Any deviation to the above clauses at Sl. No. (a) through (k) found anywhere in our bid proposal, implicit or explicit, shall stand unconditionally withdrawn, without any cost implication whatsoever to OPTCL.	

Signature & Seal of Bidder

Section 5 - Eligible Countries

List of Eligible Countries of the Asian Development Bank is as under

1.	Afghanistan	35.	Micronesia, Federated States of
2.	Armenia	36.	Mongolia
3.	Australia	37.	Myanmar
4.	Austria	38.	Nauru
5.	Azerbaijan	39.	Nepal
6.	Bangladesh	40.	New Zealand
7.	Belgium	41.	Norway
8.	Bhutan	42.	Pakistan
9.	Brunei Darussalam	43.	Palau
10.	Cambodia	44.	Papua New Guinea
11.	Canada	45.	Philippines
12.	China, People's Republic of China	46.	Portugal
13.	Cook Islands	47.	Samoa
14.	Denmark	48.	Singapore
15.	Fiji Islands	49.	Solomon Islands
16.	Finland	50.	Spain
17.	France	51.	Sri Lanka
18.	Georgia	52.	Sweden
19.	Germany	53.	Switzerland
20.	Honk Kong, China	54.	Taipei, China
21.	India	55.	Tajikistan
22.	Indonesia	56.	Thailand
23.	Ireland	57.	The Netherlands
24.	Italy	58.	Timor-Leste
25.	Japan	59.	Tonga
26.	Kazakhstan	60.	Turkey
27.	Kiribati	61.	Turkmenistan
28.	Korea, Republic of Korea	62.	Tuvalu
19.	Kyrgyz Republic	63.	United Kingdom
30.	Lao People's Democratic Republic	64.	United States
31.	Luxemburg	65.	Uzbekistan
32.	Malaysia	66.	Vanuatu
33.	Maldives	67.	Viet Nam
34.	Marshal Islands	68.	

Section 6 - Employer's Requirements

Table of Contents

<i>1</i>	<i>Scope of Supply of Plant and Services</i>	<i>223</i>
<i>2.</i>	<i>Specification</i>	<i>226</i>
<i>3.</i>	<i>Drawings.....</i>	<i>227</i>
<i>4.</i>	<i>Supplementary Information.....</i>	<i>228</i>
<i>5.</i>	<i>Bank Guarantees and Certificates.....</i>	<i>229</i>
5.1	Form of Performance Security	229
5.2	Form of Advance Payment Security	231
5.3	Form of Completion Certificate.....	233
5.4	Form of Operational Acceptance Certificate	234
<i>6.</i>	<i>Change Orders</i>	<i>239</i>
6.1.	Change Order Procedure	240
6.1.1	General	240
6.1.2	Change Order Log.....	240
6.1.3	References for Changes.....	240
6.2	Change Order Forms	241
6.2.1	Request for Change Proposal Form	241
6.2.2	Estimate for Change Proposal Form	242
6.2.3	Acceptance of Estimate Form	243
6.2.4	Change Proposal Form	244
6.2.5	Change Order Form	246
6.2.6	Pending Agreement Change Order Form.....	247
6.2.7	Application for Change Proposal Form.....	248

1. Scope of Supply of Plant and Services: (Package-II)

Scope of the Work: Package - II

Lot- 1: Engineering, Design, Supply, Erection and Commissioning of 33/11 kV GIS Indoor Substation & AIS Sub-Stations with associated Lines (Over Head and Underground Cable) with SCADA-DMS

- i. Conversion of existing 33kV OH line in to U/G Cables.
- ii. Conversion of existing 33kV overhead lines to NBLS tower /H-Pole .
- iii. Construction of new 33kV line by UG Cabling.
- iv. 33kV ring formation by installation of 33kV RMUs.
- v. Installation of new 33/11 kV GIS S/s
- vi. Installation of new 33/11 kV AIS S/s
- vii. Conversion of existing AIS S/s to GIS S/s.
- viii. Up gradation of existing 33/11 S/s
- ix. Complete SCADA-DMS for Berhampur, Chhatrapur & Gopalpur.

Lot - 2: Engineering, Design, Supply, Erection and Commissioning of 11kV & LT Network

- i. 11kV ring formation by installation of 11kV RMUs.
- ii. Up gradation of existing 11/0.43 kV S/s with Plinth & DP.
- iii. Conversion of existing overhead 11kV lines to H-Pole.
- iv. Construction of new 11kV line by UG Cabling.
- v. Strengthening of LT OH Lines with H Poles and AB conductors
- vi. Up-gradation of LT lines by Underground cables
- vii. Installation of LT Feeder Pillar Box

List of Major items to be Supplied (Package- II)

Lot – 1

(A) Power Transformer

1. 33/11kV 8 MVA Transformer
2. 33/11kV 5 MVA Transformer

(B) Equipment to be used in GIS.

1. 33 kV Circuit breakers
2. 33 kV Dis connector switches (Bus / Line)
4. 33 kV Bus PTs

5. 33 kV Current transformers(C.T)
6. SF6 to air bushings / cable terminations
7. Protection control and sub-station automation
8. 11 kV Circuit breakers
9. 11 kV Dis connector switches (Bus / Line)
10. 11 kV Bus PTs

(C) Equipment to be used in AIS:

1. Surge Arrester.(33 KV & 11 kV side)

(D) 33kV Towers

- 1.NBLS Towers
2. H-Poles

(E) 33kV XLPE Cable

1. 33 kV Underground Single Core XLPE Cable 400 Sq mm Copper
2. 33 kV Underground Single Core XLPE Cable 300 Sq mm Copper

(F) 33kV RMU

(G) SCADA & DMS in 33kV

List of Major items to be Supplied (Package- II)

Lot – 2 :

(A) Distribution Transformer

1. 11/0.43kV 750 KVA Compact S/s.
2. 11/0.43 kV 500 KVA Transformer
3. 11/0.43kV 315KVA , Transformer
4. 11/0.43 kV 100 KVA Transformer

(B) Equipment to be used in AIS.

1. 11 kV Circuit breakers (VCB)
2. 11 kV Dis connector switches (Bus / Line)
3. 11 kV Current Transformers
4. Surge Arrester.(11 kV side)

(D) 11 kV POLE:

1. H-Poles

(E) 11 kV XLPE Cable

- i. 11 kV Three Core XLPE Cable 300 Sq mm Copper
- ii. 11 kV Three Core XLPE Cable 240 Sq mm Copper
- (F) 11KV RMU**
- (G) LT RS joist pole**
- (H) LT AB Cable and UG Cable**
- (I) LT Feeder Pillar Box**

Note : Technical Specification mentioned in Volume-II of this tender.

2. Specification

Lot-1 :

Sl. No.	Particulars	Technical Specification
01	33/11kV GIS Sub station	Vol-II
02	33 KV Single Core XLPE UG CABLE	Vol-II
03	33/11kV 5.00 & 8.00 MVA, POWER TRANSFORMERS	Vol-II
04	33KV OH LINE	Vol-II

Lot- 2:

Sl. No.	Particulars	Technical Specification
01	11kV OH LINE	Vol-II
02	11KV INDOOR VACCUM CIRCUIT BREAKERS	Vol-II
03	11KV RING MAIN UNITS (RMU)	Vol-II
04	11/0.43 kV 750 kVA Compact Sub-Station	Vol-II
05	11/0.43 kV 100kVA & 315kVA Distribution transformers	Vol-II
06	LT Feeder Pillar Box	Vol-II
07	150x150mm RS Joist Pole	Vol-II

Note: Detail Technical specification mentioned in Volume-II of this tender.

3. Drawings

Lot- 1 :

Sl. No.	Particulars	Technical Specification
01	Single line drawings of existing 33/11KV Sub-Station	D-I
02	Single line diagram of proposed 33/11kV GIS Sub-Station	D-II
03	Topo sheet and image map of 33 kV Net work	D-III
04	NBLS Towers	D-IV
05	H POLE	D-V

Lot- 2 :

Sl. No.	Particulars	Technical Specification
01	Topo sheet and image map of 11 kV Net work	D-I
02	H POLE	D-II

Note: Detail drawings mentioned in Volume-II of this tender.

4. Supplementary Information

Note: Details mentioned in Volume-II of this tender.

5. Bank Guarantees and Certificates

5.1 Form of Performance Security

..... *Bank's Name, and Address of Issuing Branch or Office*

Beneficiary: *Name and Address of Employer*

Date:

Performance Guarantee No.:

We have been informed that *name of the Contractor*. (hereinafter called "the Contractor") has entered into Contract No. *reference number of the Contract*. dated with you, for the execution of *name of contract and brief description of Works*. (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 Contractor, we *name of the Bank*. hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *name of the currency and amount in figures**. (. *amount in words*.) such sum being payable in the types and proportions of currencies in which the Contract Price is payable, upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire no later than the earlier of:

(a) eighteen months after our receipt of:

- (i) a copy of the Completion Certificate; or
- (ii) a registered letter from the Contractor, attaching a copy of the notice to the project manager that the Facilities are ready for commissioning, and stating that fourteen days have elapsed from receipt of such notice (or seven days have elapsed if the notice was a repeated notice) and the project manager has failed to issue a Completion Certificate or inform the Contractor in writing of any defects or deficiencies; or
- (iii) a registered letter from the Contractor stating that no Completion Certificate has been issued but the Employer is making use of the Facilities; or

(b) the ____ day of ____, 2__.

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

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC Publication No. 458, except that subparagraph (ii) of Sub-article 20(a) is hereby excluded.

.....
Seal of Bank and Signature(s)

5.2 Form of Advance Payment Security

..... *Bank's Name, and Address of Issuing Branch or Office*

Beneficiary: *Name and Address of Employer*

Date:

Advance Payment Guarantee No.:

We have been informed that *name of the Contractor*. (hereinafter called "the Contractor") has entered into Contract No. *reference number of the Contract*. dated with you, for the execution of *name of contract and brief description of Works*. (hereinafter called "the Contract").

Furthermore, we understand that, according to the Conditions of the Contract, an advance payment in the sum (*the Guarantor shall insert an amount representing the amount of the advance payment 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*). (*amount in words*.) is to be made against an advance payment guarantee.

At the request of the Contractor, we *name of the Bank*. hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of *name of the currency and amount in figures**. (*amount in words*.) upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation under the Contract because the Contractor used the advance payment for purposes other than the costs of mobilization in respect of the Works.

It is a condition for any claim and payment under this guarantee to be made that the advance payment referred to above must have been received by the Contractor on its account number *Contractor's account number*. at *name and address of the Bank*.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor as indicated in copies of interim statements or payment certificates which shall be presented to us. This guarantee shall expire, at the latest, upon our receipt of a copy of the interim payment certificate indicating that eighty (80) percent of the Contract Price has been certified for payment, or on the . . . day of (*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 [six months][one year], 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")., whichever is earlier. Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date..

This guarantee is subject to the Uniform Rules for Demand Guarantees, ICC
Publication No. 458.

.....
Seal of Bank and Signature(s)

5.3 Form of Completion Certificate

Contract: [. . . . *insert name of contract and contract identification details.*]

Date:

Certificate No.:

To: [. . . . *insert name and address of Contractor.*]

Dear Ladies and/or Gentlemen,

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, and that, in accordance with the terms of the Contract, the Employer hereby takes over the said part(s) of the Facilities, together with the responsibility for care and custody and the risk of loss thereof on the date mentioned below.

1. Description of the Facilities or part thereof: [. . . . *description*]

2. Date of Completion: [. . . . *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,

[. . . . *Signature*]

Project Manager

5.4 Form of Operational Acceptance Certificate

Contract: [. . . . *insert name of contract and contract identification details.*]

Date:

Certificate No.:

To: [. . . . *insert name and address of Contractor.*]

Pursuant to GC Sub-Clause 25.3 (Operational Acceptance) of the General Conditions of the Contract entered into between yourselves and the Employer dated [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: [description]
2. Date of Operational Acceptance: [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,

[. . . . *Signature*]

Project Manager

5.5 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 Janapath, 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/Equipments 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- utilized 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.

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 |
| | | | Authorised 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.

6. Change Orders

6.1 Change Order Procedure

- 6.1.1 General
- 6.1.2 Change Order Log
- 6.1.3 References for Changes

6.2. Change Order Forms

- 6.2.1 Request for Change Proposal
- 6.2.2 Estimate for Change Proposal
- 6.2.3 Acceptance of Estimate
- 6.2.4 Change Proposal
- 6.2.5 Change Order
- 6.2.6 Pending Agreement Change Order
- 6.2.7 Application for Change Proposal

6.1. Change Order Procedure

6.1.1 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.

6.1.2 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.

6.1.3 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.

6.2 Change Order Forms

6.2.1 Request for Change Proposal Form

[*Employer's Letterhead*]

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

Date:

Attention: [*Name and title*]

Contract Name: [*Contract name*]

Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

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 [*number*] days of the date of this letter [or on or before (*date*)].

1. Title of Change: [*Title*]
2. Change Request No./Rev.: [*Number*]
3. Originator of Change:
Employer: [Name]
Contractor (by Application for Change Proposal No. [Number Refer to Annex 6.2.7])
4. Brief Description of Change: [*Description*]
5. Facilities and/or Item No. of equipment related to the requested Change: [*Description*]
6. Reference drawings and/or technical documents for the request of Change:

<i>Drawing No./Document No.</i>	<i>Description</i>
---------------------------------	--------------------
7. Detailed conditions or special requirements on the requested Change: [*Description*]
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 critical opinion regarding 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*]

6.2.2 Estimate for Change Proposal Form

[*Contractor's Letterhead*]

To: [*Employer's name and address*]

Date:

Attention: [*Name and title*]

Contract Name: [*Contract name*]

Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

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. We acknowledge that your agreement to the cost of preparing the Change Proposal, in accordance with GC Sub-Clause 39.2.2, is required before estimating the cost for change work.

1. Title of Change: [*Title*]
2. Change Request No./Rev.: [*Number*]
3. Brief Description of Change: [*Description*]
4. Scheduled Impact of Change: [*Description*]
5. Cost for Preparation of Change Proposal: [*insert costs which shall be in the currencies of the Contract*]

(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)	_____

[*Contractor's Name*]

[*Signature*]

[*Name of signatory*]

[*Title of signatory*]

6.2.3 Acceptance of Estimate Form

[*Employer's Letterhead*]

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

Date:

Attention: [*Name and title*]

Contract Name: [*Contract name*]

Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

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: [*Title*]
2. Change Request No./Rev.: [*Request number/revision*]
3. Estimate for Change Proposal No./Rev.: [*Proposal number/revision*]
4. Acceptance of Estimate No./Rev.: [*Estimate number/revision*]
5. Brief Description of Change: [*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 para. 3 above in accordance with GC Clause 39 of the General Conditions.

[*Employer's Name*]

[*Signature*]

[*Name of signatory*]

[*Title of signatory*]

6.2.4 Change Proposal Form

[*Contractor's Letterhead*]

To: [*Employer's name and address*]

Date:

Attention: [*Name and title*]

Contract Name: [*Contract name*]

Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

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

1. Title of Change: [*Name*]
2. Change Proposal No./Rev.: [*Proposal number / revision*]
3. Originator of Change: Employer: [*Name*] / Contractor: [*Name*]
4. Brief Description of Change: [*Description*]
5. Reasons for Change: [*Reason*]
6. Facilities and/or Item No. of Equipment related to the requested Change: [*Facilities*]
7. Reference drawings and/or technical documents for the requested Change:
[*Drawing/Document No./Description*]
8. Estimate of increase/decrease to the Contract Price resulting from Change Proposal:

Amount
[*insert amounts in the currencies of the Contract*]

(a)	Direct material	
(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		<i>[Sum of items (a) to (j)]</i>
Cost to prepare Estimate for Change Proposal		<i>[Amount payable if Change is not accepted]</i>

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: [. . . insert amount. 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 Clause 39 of the General Conditions . . .]

[Contractor's Name]
 [Signature]
 [Name of signatory]
 [Title of signatory]

6.2.5 Change Order Form

[Employer's Letterhead]

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

Date:

Attention: *[Name and title]*

Contract Name: *[Contract name]*

Contract Number: *[Contract number]*

Dear Ladies and/or Gentlemen:

We approve the Change Order for the work specified in the Change Proposal (No. *[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.

1. Title of Change: *[Name]*
2. Change Request No./Rev.: *[Request number / revision]*
3. Change Order No./Rev.: *[Order number / revision]*
4. Originator of Change: Employer: *[Name]* / Contractor: *[Name]*
5. Authorized Price:
Ref. No.: *[Number]* Date: *[Date]*
Foreign currency portion *[Amount]* plus Local currency portion *[Amount]*
6. Adjustment of Time for Completion
None Increase *[Number]* days Decrease *[Number]* days
7. Other effects, if any

Authorized by: _____
Employer

Date: _____

Accepted by: _____
Contractor

Date: _____

6.2.6 Pending Agreement Change Order Form

[*Employer's Letterhead*]

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

Date:

Attention: [*Name and title*]

Contract Name: [*Contract name*]

Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

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

1. Title of Change: [*Name*]
2. Employer's Request for Change Proposal No./Rev.: [*number/revision*] dated: [*date*]
3. Contractor's Change Proposal No./Rev.: [*number / revision*] dated: [*date*]
4. Brief Description of Change: [*Description*]
5. Facilities and/or Item No. of equipment related to the requested Change: [*Facilities*]
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*]

6.2.7 Application for Change Proposal Form

[*Contractor's Letterhead*]

To: [*Employer's name and address*]

Date:

Attention: [*Name and title*]

Contract Name: [*Contract name*]

Contract Number: [*Contract number*]

Dear Ladies and/or Gentlemen:

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

1. Title of Change: [*Name*]
2. Application for Change Proposal No./Rev.: [*Number / revision*] dated: [*Date*]
3. Brief Description of Change: [*Description*]
4. Reasons for Change:
5. Order of Magnitude Estimation (amount in the currencies of the Contract): [*Amount*]
6. Scheduled Impact of Change:
7. Effect on Functional Guarantees, if any:
8. Appendix:

[*Contractor's Name*]

[*Signature*]

[*Name of signatory*]

[*Title of signatory*]

Section 7 - General Conditions of Contract

These General Conditions of Contract (GCC) are based on the Model Form of International Contract for Process Plant Construction published by the Engineering Advancement Association of Japan (ENAA). The Multilateral Development Banks (MDBs) participating in the procurement harmonization process gratefully acknowledge the contribution of ENAA to the advancement of good contracting practices in their member countries. The GCC contain general clauses to be applied on all contracts. The GCC in this Section, read in conjunction with the Special Conditions of Contract in Section 8 and other documents listed therein, should be a complete document expressing all the rights and obligations of the contracting parties. The General Conditions herein shall not be altered.

Table of Contents

A. Contract and Interpretation.....	7-1
1. Definitions	7-1
2. Contract Documents.....	7-3
3. Interpretation	7-3
4. Communications	7-5
5. Law and Language.....	7-5
6. Corrupt Practices.....	7-5
B. Subject Matter of Contract	7-6
7. Scope of Facilities	7-6
8. Time for Commencement and Completion	7-7
9. Contractor's Responsibilities	7-7
10. Employer's Responsibilities	7-8
C. Payment	7-9
11. Contract Price	7-9
12. Terms of Payment	7-10
13. Securities	7-10
14. Taxes and Duties	7-11
D. Intellectual Property	7-12
15. License/Use of Technical Information	7-12

16.	Confidential Information.....	7-12
E. Execution of the Facilities		7-13
17.	Representatives	7-13
18.	Work Program	7-14
19.	Subcontracting	7-16
20.	Design and Engineering	7-16
21.	Procurement.....	7-18
22.	Installation	7-19
23.	Test and Inspection	7-25
24.	Completion of the Facilities.....	7-27
25.	Commissioning and Operational Acceptance	7-28
F. Guarantees and Liabilities		7-31
26.	Completion Time Guarantee.....	7-31
27.	Defect Liability	7-32
28.	Functional Guarantees	7-34
29.	Patent Indemnity	7-34
30.	Limitation of Liability	7-35
G. Risk Distribution		7-36
31.	Transfer of Ownership	7-36
32.	Care of Facilities.....	7-36
33.	Loss of or Damage to Property; Accident or Injury to Workers; Indemnification	7-37
34.	Insurance	7-38
35.	Unforeseen Conditions	7-40
36.	Change in Laws and Regulations	7-41
37.	Force Majeure	7-42
38.	War Risks.....	7-43
H. Change in Contract Elements		7-44
39.	Change in the Facilities	7-44
40.	Extension of Time for Completion	7-47
41.	Suspension.....	7-48
42.	Termination	7-49
43.	Assignment.....	7-55
I. Claims, Disputes and Arbitration		7-55
44.	Contractor's Claims	7-55
45.	Disputes and Arbitration	7-56

General Conditions

A. Contract and Interpretation

1. Definitions

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

“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).

“GCC” means the General Conditions of Contract.

“SCC” means the Special Conditions of Contract.

“day” means calendar day .

“year” means 365 days.

“month” means calendar month.

“Party” means the *Employer* or the Contractor, as the context requires.

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

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

“Contractor” means the person(s) named as Contractor in the Contract Agreement, and includes the legal successors or permitted assigns of the Contractor.

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

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

“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.

“Dispute Board” (DB) means the person or persons named as such in the SCC appointed by agreement between the Employer and the Contractor to make a decision on or to settle any dispute or difference between the Employer and the Contractor referred to him or her by the parties pursuant to GCC Sub-Clause 44.... (Dispute Board) hereof.

“The Bank” means the financing institution named in the SCC.

“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.

“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.

“Plant” means permanent plant, equipment, machinery, apparatus, 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 GCC Sub-Clause 7.3 hereof), but does not include Contractor’s Equipment.

“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.

“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.

“Country of Origin” means the countries and territories eligible under the rules of the Bank as further elaborated in the SCC.

“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.

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

“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 GCC Clause 8 and in accordance with the relevant provisions of the Contract.

“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 GCC Clause 24 (Completion) hereof.

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

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

“Guarantee Test(s)” means the test(s) specified in the Employer’s Requirements 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 (Functional Guarantees) to the Contract Agreement in accordance with the provisions of GCC Sub-Clause 25.2 (Guarantee Test) hereof.

“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 GCC Clause 28 (Functional Guarantees) hereof and shall include deemed acceptance in accordance with GCC Clause 25 (Commissioning and Operational Acceptance) hereof.

“Defect Liability Period” means the period of validity of the warranties given by the Contractor commencing at Completion 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 GCC Clause 27 (Defect Liability) hereof.

- | | |
|------------------------------|---|
| 2. Contract Documents | 2.1 Subject to Article 1.2 (Order of Precedence) of the Contract 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: <ul style="list-style-type: none"> (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 record 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), 38 Cours Albert 1^{er}, 75008 Paris, France.

3.4 Entire Agreement

Subject to GCC 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.

3.5 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.

3.6 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.

3.7 Non-Waiver

3.7.1 Subject to GCC Sub-Clause 3.7.2 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.

3.7.2 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.

3.8 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.

3.9 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 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 SCC.

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

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

6. Corrupt Practices

6.1 The Bank's Anticorruption Policy requires Borrowers (including beneficiaries of Bank-financed activity), as well as bidders, suppliers, and contractors under Bank-financed contracts, observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Bank:

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) "corrupt practice" means the offering, giving, receiving, or soliciting, directly or indirectly, anything of value to influence improperly the actions of another party;
 - (ii) "fraudulent practice" means any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

- (iii) “coercive practice” means impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
 - (iv) “collusive practice” means an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions of another party.
- (b) will cancel the portion of the financing allocated to a contract if it determines at any time that representatives of the Borrower or of a beneficiary of the Bank-financing engaged in corrupt, fraudulent, collusive, or coercive practices during the procurement or the execution of that contract, without the Borrower having taken timely and appropriate action satisfactory to the Bank to remedy the situation;
- (c) will sanction a firm or an individual, at any time, in accordance with the Bank’s Anticorruption Policy and Integrity Principles and Guidelines (both as amended from time to time), including declaring ineligible, either indefinitely or for a stated period of time, to participate in the Bank--financed or Bank-administered activities or to benefit from the Bank--financed or Bank--administered contract, financially or otherwise, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, or coercive or other prohibited practices; and
- (d) will have the right to require suppliers and contractors to permit the Bank or its representative to inspect their accounts and records and other documents relating to the bid submission and contract performance and to have them audited by auditors appointed by the Bank.

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, 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 the Section, Employer’s Requirements. Such specifications include, but are not limited to, the provision of supervision and engineering services; the supply of labor, materials, equipment, spare parts (as specified in GCC 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 (Scope of Works and Supply by the Employer) to the Contract Agreement.

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 SCC and the provisions, if any, specified in the SCC. 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. 6, which shall be added to the Contract Price. The price of such spare parts shall include the purchase price therefore 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 SCC and without prejudice to GCC Sub-Clause 26.2 hereof, the Contractor shall thereafter proceed with the Facilities in accordance with the time schedule specified in the Appendix 4 (Time Schedule) to the Contract Agreement.

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 SCC or within such extended time to which the Contractor shall be entitled under GCC 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 date twenty-eight (28) days prior to bid submission. 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 GCC 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 GCC Sub-Clause 10.1 hereof.
- 9.5 Any plant and services that will be incorporated in or be required for the Facilities and other supplies shall have their origin as specified under GCC Clause 1 (Country of Origin). Any subcontractors retained by the Contractor shall be from a country as specified in GCC Clause 1 (Country of Origin).
- 9.6 The Contractor shall permit the Bank to inspect the Contractor's accounts and records relating to the performance of the Contractor and to have them audited by auditors appointed by the Bank, if so required by the Bank.
- 9.7 If the Contractor is a joint venture or consortium 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 joint venture or consortium. The composition or the constitution of the joint venture or consortium 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 (Scope of Works and Supply by the Employer) to the Contract Agreement shall be deemed to be accurate, except when the Employer expressly states otherwise.
- 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 (Scope of Works and Supply by the Employer) to the Contract Agreement. 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) to the Contract Agreement.

- 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 (Scope of Works and Supply by the Employer) to the Contract Agreement at or before the time specified in the program furnished by the Contractor under GCC Sub-Clause 18.2 hereof and in the manner thereupon specified or as otherwise agreed upon by the Employer and the Contractor.
- 10.6 The Employer shall be responsible for the continued operation of the Facilities after Completion, in accordance with GCC Sub-Clause 24.8, and shall be responsible for facilitating the Guarantee Test(s) for the Facilities, in accordance with GCC Sub-Clause 25.2.
- 10.7 All costs and expenses involved in the performance of the obligations under this GCC Clause 10 shall be the responsibility of the Employer, except those incurred by the Contractor with respect to the performance of Guarantee Tests, in accordance with GCC Sub-Clause 25.2.
- 10.8 In the event that the Employer shall be in breach of any of his obligations imposed by the Contract, then the additional cost reasonably incurred by the Contractor in consequence thereof shall be 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 escalation clause is provided for in the SCC, 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 GCC 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 (Terms and Procedures of Payment) to the Contract Agreement, 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 (Terms and Procedures of Payment) to the Contract Agreement for the period of delay until payment has been made in full, whether before or after judgment or arbitrage award.
- 12.4 The currency or currencies in which payments are made to the Contractor under this Contract shall be specified in the Appendix (Terms and Procedures of Payment) to the Contract Agreement, 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 notification of contract award, provide a security in an amount equal to the advance payment calculated in accordance with the Appendix (Terms and Procedures of Payment) to the Contract Agreement, 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 notification of contract award, provide a security for the due performance of the Contract in the amount specified in the SCC.
- 13.3.2 The 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 one of the forms of *bank guarantees* provided in the bidding documents, as stipulated by the Employer in the SCC, or in another form acceptable to the Employer.

- 13.3.3 Unless otherwise specified in the SCC, 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, five hundred and forty (540) days after Completion of the Facilities or three hundred and sixty five (365) days after Operational Acceptance of the Facilities, whichever occurs first; provided, however, that if the Defects Liability Period has been extended on any part of the Facilities pursuant to GCC 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, provided, however, that if the Contractor, pursuant to GCC Sub-Clause 27.10, is liable for an extended defect liability obligation, the performance security shall be extended for the period and up to the amount specified in the SCC.

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 GCC Sub-Clause 14.1 above, the Employer shall bear and promptly pay all customs and import duties as well as other local taxes like, e.g., a value added tax (VAT), imposed by the law of the country where the Site is located on the Plant specified in Price Schedule No. 1 and that are to be incorporated into the Facilities.
- 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 date twenty-eight (28) days prior to the date of bid submission in the country where the Site is located (hereinafter called "Tax" in this GCC 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 GCC 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 industrial property rights owned by the Contractor or by a third party from whom the Contractor has received the right to grant licenses thereunder, 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 GCC 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 GCC 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
 - (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 GCC 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 GCC 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 GCC 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 GCC 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 GCC 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, the Contractor's Representative or the Construction Manager shall appoint a suitable person 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 GCC 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 GCC 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 (Time Schedule) to the Contract Agreement 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 given in the SCC and any extension granted in accordance with GCC 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 GCC 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 GCC 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 GCC Sub-Clause 8.2, any extension thereof entitled under GCC 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 5 (List of Major Items of Supply and Services and List of Approved Subcontractors) to the Contract Agreement 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 GCC Sub-Clause 19.1.
- 19.3 For items or parts of the Facilities not specified in the Appendix (List of Major Items of Supply and Services and List of Approved Subcontractors for Major Items) to the Contract Agreement, the Contractor may employ such Subcontractors as it may select, at its discretion.
- 19.4 Each sub-contract shall include provisions which would entitle the Employer to require the sub-contract to be assigned to the Employer under GCC 19.5 (if and when applicable), or in event of termination by the Employer under GCC 42.2.
- 19.5 If a sub-contractor'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.
- 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, provided that such discrepancies, errors or omissions are not because of inaccurate information furnished in writing to the Contractor by or on behalf of the Employer.
- 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 date twenty-eight (28) days prior to date of bid submission 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 GCC 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 (List of Documents for Approval or Review) to the Contract Agreement for its approval or review as specified and in accordance with the requirements of GCC 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.

GCC 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 GCC 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. If the Project Manager disapproves a document, he shall specify the reasons for his decision.

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 GCC 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 an Dispute Board for determination in accordance with GCC Sub-Clause 45.3 hereof. If such dispute or difference is referred to an 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 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 GCC 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 GCC Clause 39 shall apply to such request.

21. Procurement

21.1 Materials

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

21.2 Employer-Supplied Materials

If the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement 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 GCC 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 GCC 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 GCC 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 by the mode of transport that the Contractor judges most suitable under all the circumstances.

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 telex, cable, facsimile or electronic means, 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 GCC 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 GCC Clause 40.

22. Installation

22.1 Setting Out/Supervision

22.1.1 Bench Mark

- (a) 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.
- (b) 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

- (a) 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.
- (b) 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.
- (c) 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.
- (d) 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

- (a) 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.
- (b) 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.
- (c) 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

- (a) 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.
- (b) 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

- (a) No work shall be carried out on the Site on locally recognized days of rest, or outside the normal working hours stated in the SCC, unless:
 - (i) otherwise stated in the Contract,
 - (ii) the Project Manager gives consent, or
 - (iii) the work is unavoidable, or necessary for the

protection of life or property or for the safety of the Works, in which case the Contractor shall immediately advise the Project Manager.

- (b) 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.
- (c) 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

- (a) 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.
- (b) 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 Permanent Works.

22.2.7 Health and Safety

- (a) 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.
- (b) 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.
- (c) 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.

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 SCC.

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 the maintenance for 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 impedes 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 GCC 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 an Dispute Board for determination in accordance with GCC 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 GCC 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 GCC 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 GCC Sub-Clause 24.1, the Employer shall supply the operating and maintenance personnel specified in the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement for Pre commissioning of the Facilities or any part thereof.

Pursuant to the Appendix (Scope of Works and Supply by the Employer) to the Contract Agreement, 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 GCC Sub-Clause 24.2, the Contractor shall commence Pre commissioning of the Facilities or the relevant part thereof in preparation for Commissioning, subject to GCC Sub-Clause 25.5.

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 GCC 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 GCC 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 GCC 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 GCC Sub-Clause 24.4 or within seven (7) days after receipt of the Contractor's repeated notice under GCC 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.

24.8 Upon Completion, the Employer shall be responsible for the care and custody of the Facilities or the relevant part thereof, together with the risk of loss or damage thereto, and shall thereafter take over the Facilities or the relevant part thereof.

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 GCC Sub-Clause 24.5, or immediately after the date of the deemed Completion, under GCC 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 Subject to GCC Sub-Clause 25.5, 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 (Functional Guarantees) to the Contract Agreement. 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 SCC 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 GCC Sub-Clauses 28.2 and 28.3 shall not apply.

25.3 Operational Acceptance

25.3.1 Subject to GCC 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 SCC or any other agreed upon period as specified in GCC Sub-Clause 25.2.2 above; or
- (c) the Contractor has paid the liquidated damages specified in GCC Sub-Clause 28.3 hereof; and
- (d) any minor items mentioned in GCC 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 GCC Sub-Clause 25.3.1 have 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.

25.5 Delayed Pre commissioning and/or Guarantee Test

25.5.1 In the event that the Contractor is unable to proceed with the Pre commissioning of the Facilities pursuant to Sub-Clause 24.3, or with the Guarantee Test pursuant to Sub-Clause 25.2, for reasons attributable to the Employer either on account of non availability of other facilities under the responsibilities of other contractor(s), or for reasons beyond the Employer's control, the provisions leading to "deemed" completion of activities such as Completion, pursuant to GCC Sub-Clause 24.6, and Operational Acceptance, pursuant to GCC Sub-Clause 25.3.4, and Contractor's obligations regarding Defect Liability Period, pursuant to GCC Sub-Clause 27.2, Functional Guarantee, pursuant to GCC Clause 28, and Care of Facilities, pursuant to GCC Clause 32, and GCC Clause 41.1, Suspension, shall not apply. In this case, the following provisions shall apply.

25.5.2 When the Contractor is notified by the Project Manager that he will be unable to proceed with the activities and obligations pursuant to above Sub-Clause 25.5.1, the Contractor shall be entitled to the following:

- (a) the Time of Completion shall be extended for the period of suspension without imposition of liquidated damages pursuant to GCC Sub-Clause 26.2;
- (b) payments due to the Contractor in accordance with the provision specified in the Appendix (Terms and Procedures of Payment) to the Contract Agreement,

which would not have been payable in normal circumstances due to non-completion of the subject activities, shall be released to the Contractor against submission of a security in the form of a bank guarantee of equivalent amount acceptable to the Employer, and which shall become null and void when the Contractor will have complied with its obligations regarding those payments, subject to the provision of Sub-Clause 25.5.3 below;

- (c) the expenses towards the above security and extension of other securities under the contract, of which validity needs to be extended, shall be reimbursed to the Contractor by the Employer;
- (d) the additional charges towards the care of the Facilities pursuant to GCC Sub-Clause 32.1 shall be reimbursed to the Contractor by the Employer for the period between the notification mentioned above and the notification mentioned in Sub-Clause 25.5.4 below. The provision of GCC Sub-Clause 33.2 shall apply to the Facilities during the same period.

25.5.3 In the event that the period of suspension under above Sub-Clause 25.5.1 actually exceeds one hundred eighty (180) days, the Employer and Contractor shall mutually agree to any additional compensation payable to the Contractor.

25.5.4 When the Contractor is notified by the Project Manager that the plant is ready for Pre commissioning, the Contractor shall proceed without delay in performing all the specified activities and obligations under the contract.

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 SCC pursuant to GCC Sub-Clause 8.2, or within such extended time to which the Contractor shall be entitled under GCC 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 GCC Clause 40, the Contractor shall pay to the Employer liquidated damages in the amount specified in the SCC 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 SCC as a percentage rate of the Contract Price. Once the "Maximum" is reached, the Employer may consider termination of the Contract, pursuant to GCC 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 GCC 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 GCC 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 (Time Schedule) to the Contract Agreement and/or other program of work prepared pursuant to GCC 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 GCC Clause 40, the Employer shall pay to the Contractor a bonus in the amount specified in the SCC. The aggregate amount of such bonus shall in no event exceed the amount specified as "Maximum" in the SCC.

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 shall be five hundred and forty (540) days from the date of Completion of the Facilities (or any part thereof) or one year from the date of Operational Acceptance of the Facilities (or any part thereof), whichever first occurs, unless specified otherwise in the SCC pursuant to GCC Sub-Clause 27.10.

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 GCC Clause 27 shall not apply to:
- (a) any materials that are supplied by the Employer under GCC

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 GCC 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 GCC 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 fifteen (15) 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 the Facilities or any part thereof cannot be used by reason of such defect and/or making good of such defect, the Defect Liability Period of the Facilities or such part, as the case may be, shall be extended by a period equal to the period during which the Facilities or such part cannot be used by the Employer because of any of the aforesaid reasons.

27.9 Except as provided in GCC 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 the gross negligence, fraud, criminal or willful action of the Contractor.

27.10 In addition, any such component of the Facilities and during the period of time as may be specified in the SCC shall be subject to an extended Defect Liability Period. Such obligation of the Contractor shall be in addition to the Defect Liability Period specified under GCC Sub-Clause 27.2.

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 (Functional Guarantees) to the Contract Agreement, 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 (Functional Guarantees) to the Contract Agreement 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 GCC Sub-Clause 42.2.2.

28.3 If, for reasons attributable to the Contractor, the Functional Guarantees specified in the Appendix (Functional Guarantees) to the Contract Agreement 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 (Functional Guarantees) to the Contract Agreement.

28.4 The payment of liquidated damages under GCC Sub-Clause 28.3, up to the limitation of liability specified in the Appendix (Functional Guarantees) to the Contract Agreement, shall completely satisfy the Contractor's guarantees under GCC 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

29.1 The Contractor shall, subject to the Employer's compliance with GCC

Indemnity

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 GCC 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) the Contractor shall not be liable to the Employer, 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, provided that this exclusion shall not apply to any

obligation of the Contractor to pay liquidated damages to the Employer and

- (b) the aggregate liability of the Contractor to the Employer, whether under the Contract, in tort or otherwise, shall not exceed a multiple of the Contract Price specified in the SCC or, if a multiple 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 Completion of the Facilities 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 GCC Clause 32 (Care of Facilities) hereof until Completion 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 Completion of the Facilities pursuant to GCC Clause 24 or, where the Contract provides for Completion of the Facilities in parts, until the date of Completion 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 GCC 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 GCC 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 GCC 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 GCC 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 GCC 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 GCC 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 GCC 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 GCC 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 GCC Sub-Clause 38.1, the provisions of GCC Sub-Clause 38.3 shall apply.

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

33.1 Subject to GCC 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 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 GCC 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 GCC Clause 34, provided that such fire, explosion or other perils were not caused by any act or failure of the Contractor.
- 33.4 The party entitled to the benefit of an indemnity under this GCC 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 (Insurance Requirements) to the Contract Agreement, 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 Completion 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 (Insurance Requirements) to the Contract Agreement.

34.2 The Employer shall be named as co-insured under all insurance policies taken out by the Contractor pursuant to GCC Sub-Clause 34.1, except for the Third Party Liability, 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 GCC 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 (Insurance Requirements) to the Contract Agreement, 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 (Insurance Requirements) to the Contract Agreement, 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 GCC Sub-Clause 34.5.

34.6 If the Contractor fails to take out and/or maintain in effect the insurances referred to in GCC 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 GCC 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 GCC 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 GCC Sub-Clause 35.1, the Project Manager shall promptly consult with the Employer and Contractor and 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 GCC Sub-Clause 35.1 shall be paid by the Employer to the Contractor as an addition to the Contract Price.

35.3 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 GCC Sub-Clause 35.1, the Time for Completion shall be extended in accordance with GCC 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 SCC, pursuant to GCC 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
- (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 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 GCC 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 GCC 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 GCC Sub-Clauses 32.2, 38.3 and 38.4

if and to the extent that such delay or nonperformance is caused by the occurrence of an event of Force Majeure.

- 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 GCC Sub-Clause 38.5.
- 37.7 In the event of termination pursuant to GCC Sub-Clause 37.6, the rights and obligations of the Employer and the Contractor shall be as specified in GCC Sub-Clauses 42.1.2 and 42.1.3.
- 37.8 Notwithstanding GCC 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 GCC 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 and so far as may be required by the Employer, and as may be necessary for completion of the Facilities
 - (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 .

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 GCC 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 GCC 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 GCC 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 GCC Sub-Clauses 38.3 or 38.5, the rights and obligations of the Employer and the Contractor shall be specified in GCC 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 GCC 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. The Employer may at its discretion approve or reject any Change proposed by the Contractor, provided that the Employer shall approve any Change proposed by the Contractor to ensure the safety of the Facilities.

39.1.3 Notwithstanding GCC 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 GCC 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 Employer

39.2.1 If the Employer proposes a Change pursuant to GCC 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**
- (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
- (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 GCC

Sub-Clause 39.2.2 (a), the Contractor shall, with proper expedition, proceed with the preparation of the Change Proposal, in accordance with GCC 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 GCC 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 GCC 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 GCC Sub-Clause 45.3.

39.3 Changes Originating from Contractor

39.3.1 If the Contractor proposes a Change pursuant to GCC 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 GCC Sub-Clause 39.2.1.

Upon receipt of the Application for Change Proposal, the parties shall follow the procedures outlined in GCC 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 SCC 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 GCC Clause 39
- (b) any occurrence of Force Majeure as provided in GCC Clause 37, unforeseen conditions as provided in GCC Clause 35, or other occurrence of any of the matters specified or referred to in paragraphs (a), (b) and (c) of GCC Sub-Clause 32.2
- (c) any suspension order given by the Employer under GCC Clause 41 hereof or reduction in the rate of progress pursuant to GCC Sub-Clause 41.2 or
- (d) any changes in laws and regulations as provided in GCC Clause 36 or
- (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 or
- (f) any other matter specifically mentioned in the Contract
- (g) any delay on the part of a sub-contractor, 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

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.

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 GCC Sub-Clause 45.3.

- 40.3 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 GCC 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 GCC 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 GCC 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 GCC Clause 39 or, where it affects the whole of the Facilities, as termination of the Contract under GCC 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 (Terms and Procedures of Payment) to the Contract Agreement, 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 GCC 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 GCC 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 fourteen (14) days' 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 GCC Clause 41, then the Time for Completion shall be extended in accordance with GCC 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 GCC Sub-Clause 42.1.

42.1.2 Upon receipt of the notice of termination under GCC 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 GCC 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 GCC 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 GCC Sub-Clause 42.1.2
- (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 GCC 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 GCC Clause 43.
- (c) if the Contractor, in the judgment of the Employer has engaged in corrupt or fraudulent practices, as defined in GCC 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 GCC 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
- (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 GCC 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 GCC Sub-Clause 42.2.

42.2.3 Upon receipt of the notice of termination under GCC 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
- (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 GCC 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 GCC 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

GCC 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 GCC 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 GCC 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 Contractor

42.3.1 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 (Terms and Procedures of Payment) to the Contract Agreement, 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 GCC 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 GCC 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 GCC 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 GCC 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 GCC 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 GCC Sub-Clauses 42.3.1 or 42.3.2, the Employer shall pay to the Contractor all payments specified in GCC 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 GCC 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 GCC Sub-Clause 42.3.

42.4 In this GCC 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 GCC 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 (Terms and Procedures of Payment) to the Contract Agreement.

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 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 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 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 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 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 GCC 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 GCC 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 GCC Sub-Clause 45.3. The Parties shall appoint a DB by the date stated in the SCC.

The DB shall comprise, as stated in the SCC, 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 21 days before the date stated in the SCC 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 SCC, 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 when the Operational Acceptance Certificate has been issued in accordance with GCC Clause 25.3.

45.2 Failure to Agree 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 GCC 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 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 SCC 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 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 to proceed 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 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 84 days (or as otherwise approved) after receiving such reference, then either Party may, within 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 GCC 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 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 GCC 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 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

Unless settled amicably, any dispute in respect of which the DB's decision (if any) has not become final and binding shall be finally settled by international arbitration. Unless otherwise agreed by both Parties:

- (a) arbitration proceedings shall be conducted as stated in the Special Conditions,
- (b) if no arbitration proceedings is so stated, the dispute shall be finally settled by institutional arbitration under the Rules of Arbitration of the International Chamber of Commerce,
- (c) the dispute shall be settled by three arbitrators, and
- (d) the arbitration shall be conducted in the language for communications defined in GCC Sub-Clause 5.3.

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 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 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 Works. The obligations of the Parties, the Project Manager and the DB shall not be altered by reason of any arbitration being conducted during the progress of the Works.

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 GCC Sub-Clause 45.5. GCC 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) GCC Sub-Clauses 45.3 and 45.4 shall not apply, and
- (b) the dispute may be referred directly to arbitration under GCC 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 "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" (or "dispute board") 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 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 GCC 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 GCC 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 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 Taking-Over Certificate is issued for the whole of the Works.

With effect from the first day of the calendar month following the month in which Taking-Over Certificate is issued for the whole of the Works, 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 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 SCC 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 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 GCC Sub-Clause 12.3.

If the Member does not receive payment of the amount due within 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 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. If no other arbitration institute is agreed, 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 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 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 Works 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 GCC Sub-Clause 45.3, the DB shall proceed in accordance with GCC 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 the DB is satisfied 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 GCC 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 8 - Special Conditions of Contract

The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. The clause number of the SCC is the corresponding clause number of the GCC.

Table of Clauses

1. Definitions	8-69
5. Law and Language.....	8-69
7. Scope of Facilities	8-Error! Bookmark not defined.
8. Time for Commencement and Completion	8-69
11. Contract Price.....	8-Error! Bookmark not defined.
13. Securities	8-69
22 Installation.....	8-70
25. Commissioning and Operational Acceptance	8-72
26. Completion Time Guarantee.....	8-72
27. Defect Liability	8-72
30. Limitation of Liability	8-72
45. Disputes and Arbitration.....	8-73

1. Definitions

The Employer is: **Odisha Power Transmission Corporation Limited, Bhubaneswar, Odisha, INDIA**

The Project Manager is: To be determined latter.

The Bank is: **Asian Development Bank**

Country of Origin: **(Eligible Country as per Section-5)**

5. Law and Language

5.1 The Contract shall be interpreted in accordance with the laws of: **INDIA**

5.2 The ruling language is: **English**

5.3 The language for communications is: **English**

8. Time for Commencement and Completion

8.1 The Contractor shall commence work on the Facilities within **03** days from the Effective Date for determining Time for Completion as specified in the Contract Agreement.

8.2 The Time for Completion of the whole of the Facilities **for Lot-1** shall be **18** months & for **Lot-2** shall be **18** Months from the Effective Date as described in the Contract Agreement.

10. Employer's Responsibilities

10.3 Employer will assist in securing the ROW getting clearance from Railway, NHAI, Forest, Water and other Statutory/Govt body. All statutory fees for getting clearance shall be to employers Account. However, securing the ROW for getting clearance from Railway, NHAI, Forest, Water and other Statutory/Govt. body shall be the responsibility of the Contractor.

13. Securities

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.

13.3.2 The performance security shall be in the form of a Bank Guarantee as per form included in Section 6 (Employer's Requirements, Bank Guarantees and Certificates).

13.3.3 The performance security shall be reduced to ten percent (10%) of the value of the component covered by the extended defect liability to cover the Contractor's extended defect liability in accordance with the provision in the SCC, pursuant to GCC Sub-Clause 27.10.

14. Taxes & Duties

The taxes and duties treatment shall be discussed and finalized in the pre-bid meeting.

- 18.3. c) monitoring of the obligations in Sub-Clauses 21.1, 22.1.1, 22.2.3 (d), 22.2.7 (d), 22.2.15, 22.2.16 and 47 or 46.

19. Sub-contracting

19.1 Matters relating ESI, Provident Fund, and HT Electrical License etc. w.r.t Sub-contracting shall be discussed and finalized in the pre bid meeting.

21.1 Materials

The Contractor shall adequately record the condition of roads, agricultural land and other infrastructure prior to the start of transporting materials, goods and equipment, and construction.

22.1.1 Bench Mark

a) The Contractor shall comply with (i) the measures and requirements set forth in the resettlement plan and indigenous peoples plan attached hereto as Appendixes [] and [], to the extent they concern impacts on affected people during construction; and (ii) any corrective or preventive actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor implementation of the resettlement plan and indigenous peoples plan. The Contractor shall allocate a budget for compliance with these measures, requirements and actions.

22. Installation

22.2 Labor

22.2.3 (d) Labor Laws

The EA should ensure that civil works contracts under the Project follow all applicable labor laws of India and the State and that these further include provisions to the effect that contractors; (i) carry out HIV/AIDS awareness programs for labor and disseminate information at worksites on risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction; and (ii) follow and implement all statutory provisions on labor (including not employing or using children as labor, equal pay for equal work), health, safety, welfare, sanitation, and working conditions. Such contracts will also include clauses for termination in case of any breach of the stated provisions by the contractors.

22.2.3 (d) The Contractor shall not make employment decisions based upon personal characteristics unrelated to job requirements. The Contractor shall base the employment relationship upon equal opportunity and fair treatment, and shall not discriminate with

respect to aspects of the employment relationship, including recruitment and hiring, compensation (including wages and benefits, including equal pay for equal work), working conditions and terms of employment or retirement, and discipline.

22.2.7 Health and Safety

- (d) The Contractor shall throughout the contract (including the Defect 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 Sub-Contractors 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 of 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 Sub-Clause 18.2 an alleviation program for Site staff and labor and their families in respect of Sexually Transmitted Infections (STI) and Sexually Transmitted Diseases (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 Sub-Clause and the related specification. For each component, the program shall detail the resources to be provided or utilized and any related sub-contracting proposed. The program shall also include provision of a detailed cost estimate with supporting documentation. Payment to the Contractor for preparation and implementation this program shall not exceed the Provisional Sum dedicated for this purpose.

22.2.16 Prohibition of Harmful Child Labor

The Contractor shall not employ any child to perform any work, including 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. "Child" means a child below the statutory minimum age specified under applicable national, provincial or local law.

24.9 Completion of Facilities

Upon the completion of construction, the Contractor shall fully reinstate pathways, other local infrastructure, and agricultural land to at least their pre-project condition as recorded by the Contractor in consonance with its obligation in Clause 21.1.

25. Commissioning and Operational Acceptance

25.2.2 The Guarantee Test of the Facilities shall be successfully completed within 15 days from the date of Completion.

26. Completion Time Guarantee

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 GCC Clause 40, the Contractor shall pay to the Employer liquidated damages @0.5% of the Contract Price or the relevant part thereof for each completed week of delay. The aggregate amount of such liquidated damages shall in no event exceed 5% of the Contract Price.

26.3 If the Contractor attains Completion of the Facilities before the time for Completion or any extension thereof under GCC Clause 40, the Employer shall pay to the Contractor Bonus @0.5% of the Contract Price per each completed week of early completion. The aggregate amount of such bonus shall in no event exceed 5% of the Contract Price.

27. Defect Liability

27.10 The critical components covered under the extended defect liability are Transformers, Switch gears, Relays, VCBs, CT & PT, AAA Conductor, XLPE Cables etc , and the period shall be a time span of five hundred and forty (540) days from the date of Completion of the Facilities (or any part thereof). The defect liability for other component of plant and services shall be one year from the date of Operational Acceptance of the Facilities.

30. Limitation of Liability

30.1 (b) The multiplier of the Contract Price is: 1[100% of the Contract Price]

(c) The final payment by the Employer in pursuance of the Contract shall mean the release of the Contractor from all his liabilities under the Contract except for liabilities under Defect liability period, Guarantee period and Latent Defect Warranty period. Such contractual liabilities and responsibilities of the Contractor shall prevail till expiry of the Latent Defect Warranty period even after the final payment is released.

35.3 Unforeseen Conditions

In addition to notice of any Unforeseeable physical conditions, the Contractor shall provide the Project Manager with a written notice of any unanticipated environmental or resettlement risks or impacts that arise during construction, implementation or operation of the Plant or Permanent Works, which were not considered in the Initial Environmental Examination ("IEE"), Environmental Management Plan ("EMP"), the environmental management and monitoring plan ("EMMP"), the resettlement plan or the indigenous peoples plan attached hereto as Appendix [] through Appendix [].

- 39.1.5** At any time during the execution of the contract, OPTCL reserve the right to increase the quantity of any item with reference to the BOQ to an extent of (+/-) 25%. However, overall variation in the contract price will be limited to 15% of the contract price.

45. Disputes and Arbitration

- 45.1** The Dispute Board(DB) shall be appointed within 28 days after the Effective Date.

The Dispute Board (DB) shall be of Three Members

List of potential Dispute Board (DB) members is: None

- 45.2** Appointment (if not agreed) to be made by: Delhi High Court Arbitration Centre. New Delhi, India.

- 45.5** Rules of procedure for arbitration proceedings:

- (a) Contracts with foreign contractors: Any dispute, controversy or claim arising out of or relating to this contract, or breach, termination or invalidity thereof, shall be settled by Arbitration in accordance with UNCITRAL (United Nations Commission on International Trade Law) Arbitration Rules as at present in force. The place of arbitration shall be New Delhi, India.
- (b) Contracts with contractors being nationals of the Employer's country: Any dispute, controversy or claim arising out of or relating to this contract, or breach, termination or invalidity thereof, shall be settled by Arbitration in accordance with the Indian Arbitration and Conciliation Act of 1996 as amended from time to time and rule made thereunder. The place of arbitration shall be Bhubaneswar, Odisha, India.

New Clause: 46. Indemnity

- 46.1** The contractor is liable to furnish indemnity bond as per the attached format 5.5 in section-6, duly indemnifying the Employer for the Equipment supplied and under the custody of contractor after supply of material for Installation and services.

New Clause 47: The Contractor shall comply with all applicable national, provincial, and local environmental laws and regulations. The Contractor shall (a) establish an operational system for managing environmental impacts, (b) carry out all of the monitoring and mitigation measures set forth in the IEE, EMP and EMMP, and (c) allocate the budget required to ensure that such measures are carried out. The Contractor shall submit semi-annual reports on the carrying out of such measures to the Employer. More particularly, the Contractor shall comply with (i) the measures and requirements set forth in the IEE, EMP and EMMP; and (ii) any corrective or preventative actions set out in safeguards monitoring reports that the Employer will prepare from time to time to monitor implementation of the initial environmental examination and the environmental management plan.

The Contractor shall allocate a budget for compliance with these measures, requirements and actions.

Section 9 - Contract Forms

This Section contains the Letter of Acceptance, the Contract Agreement and Appendices to the Contract Agreement which, once completed, will form part of the Contract.

Table of Forms

Notification of Award	9-75
Contract Agreement	9-76
Appendix 1 - Terms and Procedures of Payment.....	9-79
Appendix 2 - Price Escalation	9-83
Appendix 3 - Insurance Requirements	9-83
Appendix 4 - Time Schedule.....	9-87
Appendix 5 - List of Major Items of Plant and services and List of Approved Subcontractors	9-88
Appendix 6 - Scope of Works and Supply by the Employer	9-89
Appendix 7 - List of Documents for Approval or Review	9-90
Appendix 8 - Functional Guarantees	9-Error! Bookmark not defined.

Notification of Award

[Employer's letter head]

Letter of Acceptance

[date]

To: [Name and address of the Contractor]

This is to notify you that your Bid consisting of the Technical and Price Bids dated [date] for execution of the [name of the Contract and identification number, as given in the Contract Data] for the Contract Price in the aggregate of [amounts in numbers and words] [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 28 days in accordance with the Conditions of Contract, using for that purpose one of the Performance Security Forms included in Section 9 (Contract Forms) of the Bidding Document

[Authorized Signature]
[Name and Title of Signatory]
[Name of Agency]

Attachment: Contract Agreement

Contract Agreement

THIS AGREEMENT made the _____ day of _____, _____,

BETWEEN

(1) [*name of Employer*], a corporation incorporated under the laws of [*country of Employer*] and having its principal place of business at [*address of Employer*] (hereinafter called "the Employer"), and (2) [*name of Contractor*], a corporation incorporated under the laws of [*country of Contractor*] and having its principal place of business at [*address of Contractor*] (hereinafter called "the Contractor").

WHEREAS the Employer desires to engage the Contractor to engineering, design, manufacture, test, deliver, install, complete and commission certain Facilities, viz. [*list of facilities*] ("the Facilities") and the Contractor have 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 GCC 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 Price Bid and Price Schedules submitted by the Contractor
- (c) Letter of Technical Bid and Technical Proposal submitted by the Contractor
- (d) Special Conditions
- (e) General Conditions
- (f) Specification
- (g) Drawings
- (h) Other completed Bidding Forms submitted with the Letters of Technical and Price Bids
- (i) Any other documents part of the Employer's Requirements
- (j) Any other documents;
 - i. Sales Tax Registration No..
 - ii. Service Tax Registration No..
 - iii. Provident Fund Registration No..
 - iv. Labour License No.
 - v. Project License.
 - vi. BOCW license.

In case the above documents under (i) to (vi) are not available with the contractor, shall submit copy of the application asking for the issue of the above documents from the concerned authorities. Nevertheless the contractor should submit the documents under (i) to (vi) within two (2) months from the date of this Contract.

1.2 Order of Precedence (Reference GCC 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 GCC 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 GCC 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: [. . . *amounts of foreign currency in words* . . .], [. . . *amounts in figures*. . .] as specified in Price Schedule No. 5 (Grand Summary), [. . . *amounts of local currency in words* . . .], [. . . *amounts in 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 GCC Clause 12)

The terms and procedures of payment according to which the Employer will reimburse the Contractor are given in the Appendix (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 [. . . *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 2007, ICC Publication No. 600.

In the event that the amount payable under Schedule No. 1 is adjusted in accordance with GCC 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 GCC Clause 1)

The Effective Date upon which the period until the Time for Completion of the Facilities shall be counted from is the date when all of the following conditions have been fulfilled:

- (a) This Contract Agreement has been duly executed for and on behalf of the Employer and the Contractor;
- (b) The Contractor has submitted to the Employer the performance security and the advance payment guarantee;
- (c) The Employer has paid the Contractor the advance payment.
- (d) The Contractor has been advised that the documentary credit referred to in Article 2.2 above has been issued in its favor.
- (e) The Employer approve the GTP and drawings of the Plant & Equipment submitted by the Contractor.

Each party shall use its best efforts to fulfill the above conditions for which it is responsible as soon as practicable.

- 3.2** If the conditions listed under 3.1 & 1.1(j) are not fulfilled within two (2) months from the date of this Contract notification because of reasons not attributable to the Contractor, the parties shall discuss and agree on an equitable adjustment to the Contract Price and the Time for

Completion and/or other relevant conditions of the Contract.

- | | | | |
|-----------------------------------|-----------|-----|--|
| Article
Communications | 4 | 4.1 | The address of the Employer for notice purposes, pursuant to GCC 4.1 is: [<i>Employer's address</i>]. |
| | | 4.2 | The address of the Contractor for notice purposes, pursuant to GCC 4.1 is: [<i>Contractor's address</i>]. |
| Article
Appendices | 5. | 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

[*Signature*]

[*Title*]

Signed by, for and on behalf of the Contractor

[*Signature*]

[*Title*]

in the presence of

[*Signature*]

[*Title*]

APPENDICES

Appendix 1 - Terms and Procedures of Payment

Appendix 2 - Price Escalation

Appendix 3 - Insurance Requirements

Appendix 4 - Time Schedule

Appendix 5 - List of Major Items of Plant and 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 1 - Terms and Procedures of Payment:

In accordance with the provisions of GCC and SCC 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 unless otherwise agreed between the parties. Applications for payment in respect of part deliveries may be made by the Contractor as work proceeds.

Clause-(A) 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:

1. **Advance Payment:** Ten percent (10%) of the total CIF (Kolkata/Vizag) amount as an advance payment against receipt of invoice and an irrevocable advance payment security (Bank Guarantee) from any reputed bank of eligible country (as per section-5) having correspondent bank in India and acceptable to the Employer valid for a period not less than 90 days over and above the scheduled date of completion period, to be issued in favor of the Employer in a standard format prescribed in the section-6. If the contract period gets extended, the Advance Bank Guarantee shall also be extended accordingly unless otherwise the entire advance amount has been already recovered from the contractor. The full advance payment shall be recovered proportionately from the Progressive payment on Delivery of Plant and Equipment. The advance payment security (Bank Guarantee) shall be returned after expiry of the validity period of the Bank Guarantee or recovery of full advance amount whichever is earlier.
2. **Progressive payment on Delivery of Plant and Equipment:** Seventy Five percent (75%) of the CIF (Kolkata/Vizag) amount shall be released prorata within Sixty (60) days after receipt and acceptance of invoice and shipping documents by the Employer on delivery of Plant and Equipment at Port of Entry-Kolkata/Vizag subject to proportionate recovery of advance payment (10%) and as per the payment procedures mentioned at Clause (B).

Hundred percent (100%) payments shall be made progressively towards taxes and duties for supply portion upon delivery of Plant/Goods at Employers Work site and acceptance of the Plant/Goods by the Employer against documentary evidence and as per the payment procedures mentioned at Clause (B).

3. **Progressive payment on Installation of Plant and Equipment:** Fifteen percent (15%) of the CIF (Kolkata/Vizag) amount shall be released prorata within sixty (60) days after issue of the completion certificate and on receipt of invoice and necessary documents and as per the payment procedures mentioned at Clause (B).
4. **Final payment:** Balance Ten percent (10%) of the CIF (Kolkata/Vizag) amount shall be released within sixty (60) days after issue of the taking over certificate, on receipt of invoice, finalization of materials reconciliation account and necessary documents and as per the payment procedures mentioned at Clause (B) subject to submission of Plant and Equipment performance bank guarantee valid for 90 days over and above the guarantee period.

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:

1. **Advance Payment:** Ten percent (10%) of the total EXW amount as an advance payment against receipt of invoice and an irrevocable advance payment security (Bank Guarantee) in favor of the Employer from any reputed scheduled bank (en-cashable at Bhubaneswar branch of the issuing bank) acceptable to the Employer valid for a period not less than 90 days over and above the scheduled date of completion period, to be issued in a standard format prescribed in the section-6. If the contract period gets extended, the Advance Bank Guarantee shall also be extended accordingly unless otherwise the entire advance amount has already been recovered from the contractor. The full advance payment shall be recovered proportionately from the Progressive payment on Delivery of Plant and Equipment. The advance payment security (Bank Guarantee) shall be returned after expiry of the validity period of the Bank Guarantee or recovery of full advance amount whichever is earlier.
2. **Progressive payment on Delivery of Plant and Equipment:** Seventy Five percent (75%) of the EXW amount shall be released prorata within Sixty (60) days after receipt and acceptance of invoice and shipping documents by the Employer on delivery of Plant and Equipment at work site subject to proportionate recovery of advance payment (10%) and as per the payment procedures mentioned at Clause (B).

Hundred percent (100%) payments shall be made towards taxes and duties for supply portion upon delivery of Plant/Goods at Employers Work site and acceptance of the Plant/Goods by the Employer against documentary evidence and as per the payment procedures mentioned at Clause (B).

3. **Progressive payment on Installation of Plant and Equipment:** Fifteen percent (15%) of the EXW amount shall be released prorata within sixty (60) days after issue of the completion certificate and on receipt of invoice and necessary documents and as per the payment procedures mentioned at Clause (B).
4. **Final payment:** Balance Ten percent (10%) of the EXW amount shall be released within sixty (60) days after issue of the taking over certificate, on receipt of invoice, necessary documents and finalization of materials reconciliation account as per the payment procedures mentioned at Clause (B) subject to submission of Plant and Equipment performance bank guarantee valid for 90 days over and above the guarantee period.

Schedule No. 3 - Design Services

Not Applicable

Schedule No. 4 - Installation and other Services:

In respect of installation and other services for both the foreign and local currency portions, the following payments shall be made:

Schedule-4: Payment for erection, testing and commissioning of plant and equipment including engagement of all labor, contractor's equipment and materials, Civil Works, temporary works, consumables and all matters and things of what so ever nature including operation and maintenance services, the provision of operation and maintenance manual, training etc. 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 shall be made as per the following.

1. Ninety percent (90%) of the measured value of Installation and other services performed by the Contractor prorata, as identified in the said Program of Performance, during the preceding month, as evidenced by the Employer's authorization of the Contractor's application, will be made monthly within Sixty (60) days after receipt of invoice along with the 100% taxes and duties and cess, if any, on acceptance of the Installation and other services by the Employer against documentary evidence as per the payment procedures mentioned at Clause (B).
2. Balance Ten percent (10%) of the total value (excluding taxes and duties) of installation and other services performed by the Contractor as evidenced by the Employer's authorization, upon issue of the taking over certificate, within Sixty (60) days after receipt of invoice, finalization of materials reconciliation account and submission of necessary documents and as per the payment procedures mentioned at Clause (B) subject to submission of installation and services performance bank guarantee valid for 90 days over and above the guarantee period.

In the event that the Employer fails to make any payment on its respective due date for reason attributable to employer, the Employer shall pay to the Contractor interest on the amount of such delayed payment at the rate of six percent (6%) per annum for period of delay until payment has been made in full.

(B) Payment Procedures:

The procedures to be followed in applying for certification and making payments shall be as follows:

1. 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 works 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.
2. Payment shall be made as per contract price schedules agreed based on approved BOQ & Unit rate of the LOA and as stipulated in the special conditions of the contract, on submission of Invoice along with necessary documents duly certified by the Engineer-In-Charge of the Employer.
3. Payment towards Price Schedule-1 (Plant and Equipment Supplied from Abroad), may be made through Letter of Credit. 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.
4. 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.
5. All the payment shall be made subject to acceptance of the Equipment/Materials/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.
6. In applying for certification and payments, the contractor shall fulfill all the requirements specified in Clause-A along with the documentary evidence required in the schedules of price as mentioned below;
 - i. **Schedule No. 1 - Plant and Equipment Supplied from Abroad as per INCOTERM CIF:**

The contractor shall send the following documents to the Employer, with a copy to the Insurance Company:

- a. Four copies of the Contractor's invoice showing the description of the Plant, Consignee, quantity, unit CIF Price in accordance with (b) below and total amount.
- b. Four copies of the certificate issued by the Employer that Liquidated Damages provision is not attracted. Alternatively, either a certificate specifying unit CIF 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.
- c. Four copies of the Insurance Certificate.
- d. Four copies of Contractor's certificate that equipment/Plant material with all Components have been delivered, complete in all respects, at site.
- e. Four copies of Material Receipt Certificate (MRC) for all items as per (d) above from consignee.
- f. Four copies of supplier's Packing List;
- g. Four copies of Copy of test certificate approved by the Employer.
- h. Four copies of Warranty Certificate.
- i. Four copies of inspection certificate issued by the nominated Officer / Inspection Agency, and the Contractor's factory Inspection report; and
- j. Four copies of Contractor's certificate of origin.
- k. 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.

ii. FOR PLANTS & EQUIPMENTS FROM WITHIN THE EMPLOYER'S COUNTRY as per INCOTERM EXW AND FREIGHT AND INSURANCE CHARGES:

Upon delivery of goods to the transporter, the contractor shall notify the following to the Employer by e-mail/fax ,

- a) Four copies of the Contractor's invoice showing the description of the Goods, Consignee, quantity, unit ex-works price in accordance with (b) below and total amount.
- b) 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.
- c) Four copies of the Insurance Certificate.
- d) Four copies of Contractor's certificate that Plant/equipment with all components has been delivered, complete in all respects, at site.
- e) Four copies of Material Receipt Certificate (MRC) for all items as per (d) above from consignee;
- f) Four copies of Contractor's Packing List.
- g) Copy of test certificate approval and Dispatch Instructions issued by the Employer combined or separately.
- h) Four copies of Warranty Certificate.
- i) Four copies of inspection certificate(release Note) issued by the nominated Officer / Inspection Agency, and the Contractor's factory Inspection report; and
- j) 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.

iii . FOR INSTALLATION AND OTHER SERVICES ACTIVITIES FROM OUTSIDE AND WITHIN THE EMPLOYER'S COUNTRY: -

- a) Four copies of the contractor's invoice showing the description of the activities, quantity, unit price in accordance with (b) below and total amount.
- b) 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.

- c) Four copies of certificate of Operational acceptance duly certified by the Engineer-In-Charge.
- d) Four copies of joint measurement certificate (JMC) jointly signed by the Engineer-In-Charge and the Contractor.
- e) Four copies of dismantled list of materials returned, if any, duly acknowledged / certified by the concerned Engineer-In-Charge.
- f) Four Copies of all Statutory documents such as Valid Labour License, PAN Card and Storage-Cum-Erection Insurance Certificate.
- g) 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.

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.

Appendix 2 - Price Escalation

Not Applicable

Appendix 3 - Insurance Requirements

(A) Insurances To Be Taken Out By The Contractor

In accordance with the provisions of GCC & SCC 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]
140 percent of CIF/EXW price of Plant to be supplied by the Contractor	Nil	Joint Name of Employer 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 completion 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]	From [place]	To [place]
115 % of the contract price of installation work.	Nil	Joint Name of Employer and Contractor and Sub-Contractor	Contractor's premises	Store setup by the contractor for installation work at project site

(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	Third parties	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 GCC Sub-Clause 34.1, except for the Third Party Liability, 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 GCC 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.

(B) 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

Lot-1 :

The time for Completion and commissioning of Facilities is 15 (Fifteen) months for LOT-I from effective date and defect liability period is six (06) months thereafter as per following schedule:

Sl. No.	Activities	Lot-1 Completion period of activities from Zero date i.e. Effective date (In Months)
1	Establishment of Project site Office	01
A.	Substation Related Work	
2	Detailed Geo Technical Survey work of Substation and submission of survey report	02
3	Finalization of BOQ after Survey	03
4	Submission of Material Procurement Schedule	3.5
5	Order Placement by Contractor	4
6	Engineering Activities	5.5
7	Manufacturing	10.5
8	Establishment of project field store	11
9	Supply of Material at site	12
10	Civil work of Substation and other associated system	14
11	Electrical Erection work of substation	15
12	Testing and Pre-Commissioning	17
13	Charging of Substation	17
14	Completion of all balance work of project and final handing over (Defect liability Period)	23.5
15	Contract Closing.	24

Lot- 2 :

The time for Completion and commissioning of Facilities is Eighteen (18) months for Lot-II from effective date and defect liability period is six (06) months thereafter as per following schedule:

Sl. No.	Activities	Lot-2 Completion period of activities from Zero date i.e. Effective date (In Months)
1	Establishment of Project site Office	01
A.	Line related works	
2	Detailed Survey of work of transmission Line and submission of survey report	02
3	Finalization of BOQ after Survey	03
4	Submission of Material Procurement Schedule	3.5
5	Order Placement by Contractor	4
6	Engineering Activities	5.5
7	Manufacturing	10.5
8	Establishment of Project field store	11
9	Receipt of Material at site	14
10	Digging of Under Ground	14
11	Erection work of Under Ground Cable Lines	15
12	Conductor Sagging and other associated electrical Work	17
13	Testing & Charging of Line	17.5
14	Handing Over of Line Works	18
15	Completion of all balance work of project and final handing over (Defect liability Period)	23.5
16	Contract Closing.	24

Appendix 5 - List of Major Items of Plant and Services for which Manufacturers Authorization Certificate is to be submitted

A list of major items of plant and services is provided below.

Lot-I:

Major Items of Plant and Services	Subcontractors / Manufacturers	Nationality
Power Transformers		
GIS Switchgears for 33 kV		
33 CR panel		
33kV PT		
33kV CT		
AAA Conductor		
33kV Single Core UG XLPE Cable		
33kV RMU		
SCADA & DMS		

Lot-II:

Major Items of Plant and Services	Subcontractors / Manufacturers	Nationality
Distribution Transformers		
11kV VCBs		
CR panel		
11kV PT		
AAA Conductor		
11kV 3 Core UG XLPE Cable		
11kV RMU		

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 GCC 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 GCC 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)
None except for assisting the Contractor in carrying out guarantee tests, Inspection and arranging shut downs for the lines and distribution sub-stations.	Nil

Facilities	Charge to Contractor (if any)
Employer will endeavor to facilitate process of securing the ROW for getting clearance from Railway, NHAI, Forest, Water and other Statutory/Govt. body.	NIL

Works	Charge to Contractor (if any)
<ol style="list-style-type: none">1. Terminal Gantry shall be provided by the Employer.2. Foundation drawing, tower drawing & BOM available (list attached in Volume-II) shall be provided for execution of work.3. Parameters, Data etc. required for super structure / extension design and its foundation design.	NIL

Supplies	Charge to Contractor (if any)
NIL	Nil

Appendix 7 - List of Documents for Approval or Review

Pursuant to GCC 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 GCC Sub-Clause 18.2 (Program of Performance), the following documents for

(A) Approval

1. Route Alignment.
2. Revised BOQ after site survey.
3. Design & Drawings.
4. PERT Network.
5. Work Completion Schedule.
6. Bank Guarantee.
7. GTP (To the extent not submitted by the Employer)
8. Vendor- Sub-Vendor, Sub-contractor.
9. Inspection Report.
10. Test Report.
11. Invoice.
12. JMC.

(B) Review

1. Physical Progress Report.
2. Financial Progress Report.
3. Material Reconciliation Statement.