



BRAHMAPUTRA CRACKER AND POLYMER LIMITED

[A Government of India Enterprise]

Request for Quotation

Ref: BCPL/DIB/C&P/SER/20110126/R/DBK

28/01/2012

M/S _____

SUBJECT: OPERATION & MAINTENANCE FOR ENTIRE CONSTRUCTION POWER SUPPLY SYSTEM & MAINTENANCE OF AIRCONDITIONERS AT BCPL PLANT, LEPETKATA, & BCPL TOWNSHIP, BARBARUAH DIBRUGARH, ASSAM

TENDER NO: BCPL/DIB/C&P/SER/20110126/R/DBK

Dear Sir (s),

Brahmaputra Cracker & Polymer Limited here-in-after called OWNER/COMPANY/BCPL invites you to submit your bids UNDER TWO BIDS SYSTEM for the subject work as detailed below in complete accordance with tender documents enclosed:-

TENDER FEE	:	Not Applicable (N/A)
EARNEST MONEY DEPOSIT	:	Rs. 7, 00,000 /- (Rupees Seven Lac Only)
DATE OF PRE BID CONFERENCE	:	11/02/2012, 15.30 HRS.
DUE DATE AND TIME FOR RECEIPT OF TENDER	:	21/02/2012, 14.30 HRS.
DATE AND TIME FOR OPENING OF TECHNO-COMMERCIAL BID	:	21/02/2012, 15.00 HRS.
DATE AND TIME FOR PRICE BID OPENING OF TECHNO-COMMERCIAL QUALIFIED BIDDERS	:	Shall be intimated letter on
PLACE OF RECEIPT OF TENDER	:	OFFICE OF THE Sr. MANAGER (C&P) BRAHMAPUTRA CRACKER & POLYMER LTD. "MAIN FIRE STATION" LEPETKATA, NH-37, P.O. LEPETKATA, DIBRUGARH, ASSAM, PIN – 786006

Regd. Office: Hotel Brahma Putra Ashok, MG Road, Guwahati-781001, Assam: Tel: 0361-2733554, 0361-2733556(Fax)

Project Site Office: Main Fire Station Building, PO-Lepetkata, Dibrugarh-786 006, Assam

Tel: 0373-2914611-609-604, Fax: 0373-2371052(Fax)

Project Execution office: 3rd Floor, GTI; 24, Sector-16A; NOIDA-201 301: Tel: 0120-2513102, 011-26185941(Fax)

The Earnest Money Deposit (EMD) for the amount as mentioned above shall be submitted in the form of Crossed Bank Demand Draft / Banker's Cheque drawn on any Nationalized / Scheduled bank in favour of Brahmaputra Cracker & Polymer Ltd., payable at State Bank of India, Dibrugarh, Assam.

SUBMISSION OF BIDS:

Bid must be submitted within the stipulated date and time as indicated in the tender. The bid must be valid for 120 days from the final date of Tender closing.

Bid through Telex/Fax/Telegram will not be acceptable. BCPL assumes no responsibility for delay, loss or non-receipt of bid sent by post.

Bidders Evaluation Criteria for this tender will be as under:

BIDDER'S ELIGIBILITY CRITERIA (BEC):

The bidders are required to meet BEC of the tender, as under:

- A.** The Bidder must have valid minimum 33 KV Electrical Contractor License.

The bidder has to submit necessary documentary evidence supporting the above along with their un-priced bid.

- B.** The bidder should have experience of executing Operation & Maintenance work of Electrical installation up-to 33 KV voltage level during the preceding 07 (seven) years in any reputed organization.

The bidder has to submit necessary documentary evidence supporting the above along with their un-priced bid.

- C.** The bidder must have the experience of having successfully completed / executed at least one similar work having value not less than Rs.88 Lacs in last 07(seven) years.

Bidder must submit copy of work order/ agreement and work completion/execution certificate showing the contract completed/executed value of work & ref. no. of work order in the Completion/execution certificate issued by end user in support of their experience along with technical bid (un-priced bid).

In case of **Sub-contractor**, bidder shall be required to furnish the following attested/notarized documents in support of meeting the above "Bid Evaluation Criteria."

- a) Copy of work order along with SOR issued by main contractor.
 - b) Copies of Completion Certificate from the end User/ Owner and also from the main contractor. The Completion Certificates shall have details like work order no. / date, brief scope of work, ordered & executed value of the job, completion date etc.
- D.** The annual turnover of the bidder should not be less than Rs.88.00 Lacs (Rupees Eighty Eight Lacs Only) in any one of the preceding three financial i.e. FY: 2008-09, 2009-10 & 2010-11.
- E.** The working capital of the bidder should not be less than Rs 17.55 lacs (Rupees Seventeen Lacs Fifty Five Thousand only) as per the audited financial results of the financial year. In case the working capital of the bidder is less than Rs.17.55 lacs then the bidder should supplement this with a letter from the bidder's bank, having net worth

not less than Rs. 100 crores/ US\$ 22 million, confirming the availability of line of credit for at least Rs.17.55 lacs.

- F.** The Net Worth of the Bidder should be Positive during the last audited Financial Years i.e. FY: 2010-11.

Bidder must submit copies of audited Balance Sheet and Profit & Loss account statement for the relevant periods (i.e. FY:2008-09,2009-10 & 2010-11) along with their un-priced / technical bid. Net Worth of the bidder should be positive as per the audited financial Result of the last Financial Year. Bidder must submit copy of audited Balance Sheet and Profit & Loss account statement for the last financial year along with the technical bid.

- G.** The bidder should have valid E.P.F. Registration no. / Certificate and copy (attested) of the same should be submitted along with their un-priced offer at the time of submission of bid.

- H.** Bids shall be evaluated in over all techno-commercially lowest acceptable basis

SUBMISSION OF ATTESTED COPIES OF CERTIFICATES/DOCUMENTARY EVIDENCES:

The bidders are required to submit the copies of all certificates/documentary evidences duly **attested by Gazetted Officer/Officer of Public Sector Enterprises/ notary public** towards the proof of meeting the Bid Evaluation Criteria (BEC) as stated above:

- **Attested copies of all the relevant documents viz. Work order(s), execution certificate(s), annual report / balance sheet and profit & loss account and other documents as mentioned in Exhibit 'A'.**
- **Attested copy (ies) of partnership deed (in case of partnership firm) and power of attorney.**

An undertaking (by the bidders who quotes by down loading the tender from web site) stating that "The contents of the Tender Document have not been modified or altered by M/s (Name of the bidder with complete address) In case, it is found that the tender document has been modified / altered by the bidder, the bid submitted by the M/s (Name of the bidder) shall be liable for rejection".

Non-submission of the attested copies of the requisite certificates/documents shall render the bid non-responsive and shall be liable for rejection.

Please note that this is a zero deviation tender. Bidders are advised to strictly confirm compliance to tender conditions and not to stipulate any deviation / conditions in their offer. Subsequent to bid submission, BCPL will not seek confirmations / clarifications and any bid(s) not in line with tender conditions shall be liable for rejection. Bidders are also requested to submit the documents / confirmations strictly as per the check list enclosed in the tender document.

Bids complete in all respect must reach this office not later than 14:30 hrs on the notified date of closing of the tender. Bids sent by hand delivery should be put in the tender box at this office not later than 14:30 hrs on the specified date. All out-station bids, if sent by post, should be sent under registered cover.

Bidders may depute their authorized representative to attend the bid opening. Bidders selected for opening of their priced bid shall be informed about the date and time of price bid opening.

Any change in bid after due date of submission of tender will not be considered.

Bidders are advised in their own interest to ensure that their bids reach this office well before the closing date and time of the tender as the bids received after the closing date and time of the tender will not be considered.

Please confirm that you have received the tender document and will be quoting for the tender items/jobs. In case you are not quoting for the same, please return complete set of tender documents.

The Bidder is required to submit the bid along with their covering letter under letter head disclosing the name and designation of authorized person signing the bid, complete postal address of firm / company, telephone no., fax no., e-mail etc.

BCPL reserves the right to accept or reject any or all bids received, at its absolute discretion, without assigning any reason whatsoever.

You are requested to depute your representative along with authorization letter at the time of bid opening.

Thanking You,
For Brahmaputra Cracker & Polymer Limited

(D. BARKAKATI)

SO (C&P)

Enclosed: One set of tender document.

MASTER INDEX

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Exhibit 'A'CONFIRMATION OF BIDDERS FOR MEETING BEC AND OTHER REQUIREMENTS OF TENDER**TENDER NO.:** BCPL/DIB/C&P/SER/20110126/R/DBK**DESCRIPTION:** OPERATION & MAINTENANCE (O&M) WORKS for CONSTRUCTION POWER SUPPLY (CPS) SYSTEM & MAINTENANCE OF AIR CONDITIONERS AT BCPL PLANT, LEPETKATA, DIBRUGARH, ASSAM

Sl No.	TENDER REQUIREMENT	BIDDER's REPLY / CONFIRMATION
1	The Bidder must have valid minimum 33 KV Electrical Contractor License. The bidder has to submit necessary documentary evidence supporting the above along with their un-priced bid. Bidder must submit documentary proof i.e. copies of work orders / completion certificates etc. duly notarized/attested by notary public/gazetted officer against the experience along with the un-priced offer. A. The bidder should have experience of executing Operation & Maintenance work of Electrical installation upto 33 KV voltage level during the preceding 07 (seven) years in any reputed organization. The bidder has to submit necessary documentary evidence supporting the above along with their un-priced bid. B. The bidder must have the experience of having successfully completed / executed at least one similar work having value not less than Rs.88 Lacs in last 07(seven) years. Bidder must submit copy of work order/ agreement and work completion/execution certificate showing the contract completed/executed value of work & ref. no. of work order in the Completion/execution certificate issued by end user in support of their experience along with technical bid (un-priced bid).	Reference of attested copies of documents furnished: 1. 2. 3.
2	In case of Sub-contractor, bidder shall be required to furnish the following attested/ notarized documents in support of meeting the above "Bid Evaluation Criteria." a) Copy of work order along with SOR issued by main contractor. b) Copies of Completion Certificate from the end User/ Owner and also from the main contractor. The Completion Certificates shall have details like work order no. / date, brief scope of work, ordered & executed value of the job, completion date etc.	Reference of attested copies of documents furnished: - a) - b)
3	A. The annual turnover of the bidder should not be less than Rs.88.00 Lac (Rupees Eighty Eight Lac Only) in any one of the preceding three financial. Bidder must submit copies of audited Balance Sheet and Profit & Loss account statement for the relevant period along with the technical bid. Net Worth of the bidder should be positive as per the audited financial Result of the last Financial Year. Bidder must submit copy of audited Balance Sheet and Profit & Loss account statement for	Reference of attested documents furnished: A)

	the last financial year along with the technical bid. B. The working capital of the bidder should not be less than Rs 35.10 lacs (Rupees Twelve Lacs only) as per the audited financial results of the financial year. In case the working capital of the bidder is less than Rs.35.10 lacs then the bidder should supplement this with a letter from the bidder's bank, having net worth not less than Rs. 100 crores/ US\$ 22 million, confirming the availability of line of credit for at least Rs.12 lacs. C. The Net Worth of the Bidder should be Positive during the last audited Financial years	B)
4	Confirmation regarding submission of other documents as per check-list.	
5	<u>Power of Attorney</u> in favour of person who has signed the offer in stamp paper of appropriate value.	Reference of document furnished 1.
6	<u>Affidavit:</u> As per clause no: 36 of SCC-Part A	
7	<u>PF Registration Certificate:</u> The bidder should have valid E.P.F. Registration no. / Certificate and copy (attested) of the same should be submitted along with their un-priced offer at the time of submission of bid.	
8	<u>VAT Registration Certificate :</u> Confirmation of submission of valid VAT registration certificate in the name of the bidder	

Note:-

Please note that the documents listed by you above only shall be considered for evaluation of your claim of meeting Bidder Evaluation Criteria. Any other documents, not included above shall not be considered. Further please note that all the documents submitted should be **attested** by a Gazetted officer / officer of Public Sector Enterprises / Notary public.

Date:**Bidder's signature**_____

CHECK LIST FOR SUBMISSION OF DOCUMENTS

Bidder is requested to fill this check list and ensure that all detail / documents have been furnished as called for in the Bidding Document along with duly filled in, signed & stamped checklist with each copy of the "Un-priced bid (Part-I)".

Please tick the box and ensure compliance:-

- 1.0** **EMD** of requisite amount is submitted in the form of DD/Banker's Chque from any scheduled bank as mentioned in RFQ.

Submitted in the form of DD/Banker's Chque **(Rs. 7, 00, 000/-)**.

DD / Banker's Chque No. _____ Dated _____ Drawn on _____

- 2.0** Submission of Documents as per **Exhibit 'A'** duly filled in submitted

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- 3.0** **Validity of offer** is up to four (04) months from the date of submission of Techno-commercial part.

Yes

Valid up to _____

- 4.0** **Power of Attorney** in favour of person who has signed the offer in stamp paper of appropriate value

Submitted

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- 5.0** **Partnership Deed** in case of partnership firm and **Articles of Association** in case of limited company.

Submitted

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- 6.0** **Original bidding document** along with blank (un-priced) copy (2 no) of price bid (Schedule of Rates) and addendum, if any.

Submitted

☐

- 7.0** **All pages / documents** are stamped and signed by the authorized signatory of the bidder towards acceptance of terms and conditions of the tender:

Yes

☐

- 8.0** **Affidavit duly notarized**, as per clause no. 39 of special condition of contract **Part -A**

:

☐

Submitted

- 9.0** **All pages / documents** are stamped & signed by authorized signatory of the bidder towards acceptance of terms & conditions of the tender:

- 10.0** Copy of **PAN CARD** Duly Attested

☐

- 11.0** Copy of **VAT Registration** Certificate:

☐

SIGNATURE OF BIDDER : _____

NAME OF BIDDER : _____

COMPANY SEAL : _____

"EXHIBIT-B"**ACKNOWLEDGEMENT CUM CONSENT LETTER**

(Within 07 days of receipt of Bidding document, Bidder shall acknowledge the receipt and confirm his intention to Bid against the enquiry/tender through e-mail to or per return FAX by filling up the this Format)

To,**SR. OFFICER (C&P)****BRAHMAPUTRA CRACKER & POLYMER LTD.****"MAIN FIRE STATION BUILDING", P.O.LEPETKATA****DIBRUGARH, ASSAM, PIN – 786006****FAX: 0373 – 2914611 / 2914609****SUBJECT:**

Dear Sir,

We hereby acknowledge receipt of a complete set of bidding document along with enclosures for subject item/work.

We undertake that the contents of the above bidding document shall be kept confidential and further that the drawings, specifications and documents shall not be transferred and that the said documents are to be used only for the purpose for which they are intended.

- A) We intend to bid as requested for the subject item/work and furnish following details with respect to our quoting office:

(i) Postal Address : _____

 (ii) Telephone Number : _____
 (iii) Telefax Number : _____
 (iv) Contact Person : _____
 (v) E-mail Address : _____

- B) Details of Contact person:

(i) Postal Address : _____

 (ii) Telephone Number : _____
 (iii) Fax Number : _____
 (iv) Contact Parson : _____
 (v) E-mail Address : _____

- C) We are unable to bid for the reasons given below and we are returning back the entire set of bidding documents.

Reasons for non-submission of bid:

Agency's Name : _____
 Signature : _____
 Name : _____
 Designation : _____
 Date : _____
 Seal/Stamp : _____

INSTRUCTIONS TO BIDDERS

Ref: BCPL/DIB/C&P/SER/20110126/R/DBK

1.0 BIDDING DOCUMENT, CLARIFICATION AND ADDENDUM

1.1 BIDDING DOCUMENT

- 1.1.1 One set of bidding documents (Tender document) is issued. Bidder shall submit the Tender document duly signed & stamped on each page of tender in token of his acceptance along with his bid
- 1.1.2 Transfer of bidding document issued to one intending bidder to another is not permissible.
- 1.1.3 Bid shall remain valid for 120 days from the date of submission of Bid.

1.2 CLARIFICATION REQUESTS BY BIDDER

- 1.2.1 Although the details presented in this Bidding document consisting of conditions of contract, scope of work, technical specifications and drawings have been compiled with all reasonable care, it is the Bidder's responsibility to ensure that the information provided is adequate and clearly understood.
- 1.2.2 Bidder shall examine the bidding documents thoroughly in all respect.
- 1.2.3 Any failure by Bidder to comply with the aforesaid requirement shall not excuse the Bidder, after subsequent award of contract, from performing the work in accordance with the agreement.

1.3 AMENDMENT OF BIDDING DOCUMENT

- 1.3.1 BCPL may, for any reason whether at his own initiative or in response to the clarification requested by the prospective Bidder, issue amendment in the form of addendum during the Bidding period and subsequent to receiving the bids. Any addendum thus issued shall become part of bidding document and Bidder shall submit 'original' addendum duly signed and stamped in token of his acceptance.
- 1.3.2 For addendum issued during the Bidding period, Bidder shall consider the impact in his Bid. For addendum issued subsequent to receiving the Bids, Bidder shall follow the instructions issued along with addendum with regard to submission of impact on quoted price / revised price, if any.

1.4 CONFIDENTIALITY OF DOCUMENT

- 1.4.1 Bidder shall treat the Bidding document and contents thereof as confidential.

1.5 ACKNOWLEDGEMENT & CONFIRMATION OF BID

- 1.5.1 Within 7 days of receipt of bidding document, Bidder shall acknowledge the receipt and confirm his intention to Bid for the Bidding work.

1. EARNEST MONEY DEPOSIT

- 2.1 The bid must be accompanied by earnest money (interest free) for the amount indicated in 'Letter Inviting Tender' in the form of a Demand Draft / Banker's Chque drawn on any Nationalized/Scheduled Bank in favour of M/s. Brahmaputra Cracker & Polymer Limited payable at STATE BANK OF INDIA, DIBRUGARH (BRANCH CODE 0071), ASSAM
- 2.2 If the bidder, after submission, revokes his bid or modifies the terms and conditions thereof during the validity of his bid except where the BCPL has given opportunity to do so, the earnest money submitted by Bidder will, in such case, not be refunded to him.
- 2.3 BCPL may at any time cancel or withdraw the invitation to bid without assigning any reason and the earnest money submitted by Bidder will in such case be refunded to him.
- 2.4 The successful Bidder shall be required to deposit within 10 days of acceptance of his bid, security deposit / Initial Security Deposit with the BCPL in the manner indicated in General Conditions of Contract / Special Conditions of Contract. Should the successful Bidder fail or refuse to sign the agreement or furnish the security deposit / initial security deposit within the period fixed by the BCPL as indicated above, the earnest money shall be forfeited without prejudice to his being liable to any further loss or damage incurred in consequence by the BCPL.
- 2.5 Earnest money shall be returned to the successful Bidder after the security deposit / initial security deposit has been furnished by him to the BCPL.

3.0 **SCHEDULE OF RATES**

- 3.1 **The schedule of Rates shall be read in conjunction with all other sections of Bidding document.**
- 3.2 The rates quoted by the bidder shall be firm and fixed for the completion period of the tendered works, unless stated otherwise. The rates quoted by the Bidder shall include all taxes, duties & levies except Service Tax and any cess thereon. Service Tax and cess thereon shall be paid by BCPL extra at actual against cenvat invoice to be submitted by the bidder. Notwithstanding the instructions given above, in case any bidder(s) mention the terms such as "Inclusive" or "Included" in respect of Service Tax, their bids will still be evaluated considering the prices exclusive of Service Tax. However, in the event of such bidder emerging as the lowest bidder based on this evaluation, the award shall be made considering the service tax included in the quoted.
- 3.3 Rates must be filled in format for 'schedule of rates' enclosed as part of bidding document. If quoted in separate typed sheets and any variation in description, unit is noticed, the bid is liable to be rejected. In any case bidder shall be presumed to have quoted against the description of work and the same shall be binding on the bidder.
- 3.4 In case any activity though specifically not covered in description of 'Schedule of Rates' but is required to complete the work as per Scope of Work, Scope of Supply, Specifications, Standards, Drawings, General Conditions of Contract, Special condition of contract or any other part of bidding document, the quoted rates will deemed to be inclusive of cost incurred for such activity.
- 3.5 The rates shall include all expenditure incurred towards mobilization and demobilization.
- 3.6 Rates quoted shall be in Indian Rupees Only.
- 3.7 Bidder shall quote rates both in figures as well as in words.

4.0 **DOCUMENTS COMPRISING THE BID**

- 4.1 Bidder is advised that BCPL intend to fully evaluate the technical and un-priced commercial submissions.
- 4.2 It is important that Bidder clearly demonstrates his experience and capability, giving to BCPL a high level of confidence that if awarded, the Bidder will be able to perform the works within the stipulated Time Schedule and quoted price and meeting all other requirements listed in the Bidding document.
- 4.3 Bidder is requested to furnish the complete and correct information required for evaluation of his Bid. If the information with regard to resources and concurrent commitments or any other information / documentation forming basis of evaluation is found in complete / incorrect the same may be considered adequate ground for rejection of the bid.
- 4.4 Bidder shall arrange his bid in the following order:
- i) **PART-I TECHNICAL AND UN-PRICED COMMERCIAL PART (TECHNO-COMMERCIAL BID)**
 Technical and un-priced commercial part shall comprise the attachments, specifying attachment number arranged in the order as follows:
 - a) Submission of bid letter along with Bidding document (Tender document), Earnest Money Deposit and its details.
 - b) Attested copies of documents as mentioned in Request for Quotation
 - c) Copy of tender document duly signed and stamped towards acceptance to terms and conditions of the tender.
 - d) Power of Attorney in favour of authorized signatory of the Bidding document.
 - e) Organization details
 - In case of a proprietorship firm, the name and address of proprietor, and certified copy of 'Certificate of registration of firm'.
 - In case Bidder is a partnership firm, certified copy of the partnership deed.
 - In case of company (whether private or public), certified copy of the 'Certificate of Incorporation' together with certified Memorandum / articles of Association.
 - f) Copy of "Schedule of Rates" without any prices (which will be left blank) duly signed and stamped.
 - g) Technical offer if any, required as per Bidding document.
 - h) Check list (Exhibit-A)
 - i) Any other relevant document, Bidder desires to submit.

ii) **PART-II PRICED COMMERCIAL PART (PRICE BID)**

- a) Priced commercial Part shall contain "Schedule of Rates" duly filled in .Two copies i.e. one ORIGINAL COPY and one DUPLICATE copy of "Schedule of Rates" shall be submitted.
- b) No stipulation, deviation, terms & conditions, presumption, basis etc. shall be stipulated in Price part of bid. BCPL shall not take cognizance of any such statement and may at their discretion reject such price bids.

5.0 SUBMISSION OF BID

5.1 SUBMISSION IN TWO SEPARATE ENVELOPS:

5.1.1 Un-priced and priced part must be submitted in separate sealed envelopes in following 2 parts:

i) **PART-I – TECHNICAL AND UN-PRICED COMMERCIAL PART**

- a) This part shall contain technical and commercial (Un-priced) bid. This envelope shall comprise the signed copy of Bidding document (Tender document), drawings, addendum (if any), one original and 1 copy of the information listed for submission in Part –I under Para 4.4.above. Techno-commercial bid containing prices shall be summarily rejected.
- b) The envelope shall have following information clearly written on the outside of the envelope, failing which BCPL will assume no responsibility for the misplacement or premature opening of the bid.

Part-I: Technical and Un-priced Commercial Part.

Name of Work: _____

Bidding document No.: _____

Due date & time of Opening: _____

From: [Name & Address of Bidder]: _____

- c) Original earnest money deposit (EMD) shall also be enclosed in this part.

ii) **PART-II SEALED PRICED COMMERCIAL PART**

- a) This part of the bid shall contain the Schedule of Rates, duly filled in all respects and other information specifically requested for submission in price part under Para 4.4 ii) above. The envelope shall have the following information clearly written on outside of the envelope, failing which BCPL will assume no responsibility for the misplacement or premature opening of the bid.

PART-II – PRICE PART

Name of Work: _____

Bidding Document No. : _____

From: [Name & Address of Bidder]: _____

- b) This part of Bid will be submitted in original plus one copy.

5.2 DATE, TIME & PLACE OF SUBMISSION

5.2.1 Bid must be submitted by the due date and time mentioned in the Letter Inviting Tender or any extension thereof as duly notified in writing by BCPL at the following address:

OFFICE OF THE SR. MANAGER (C&P) BRAHMAPUTRA CRACKER & POLYMER LTD. "MAIN FIRE STATION BUILDING " LEPETKATA, NH-37, P.O. LEPETKATA, DIBRUGARH, ASSAM, PIN – 786 006

5.2.2 Bid received after the time and date fixed for receipt of bid is liable for rejection.

5.3 CHECK LIST FOR SUBMISSION OF BID

5.3.1 To assist bidder in ensuring the completeness of bid, a checklist for submission of various documents / details in 'technical & un-priced commercial part of bid has been enclosed to "INSTRUCTIONS TO BIDDERS". Bidder, in his own interest, is requested to fill the checklist and submit along with his bid for ready reference.

5.3.2 In case of incomplete submissions, BCPL will not be under any obligation to give the bidder an opportunity to make good such deficiencies and BCPL may at its discretion treat such bids as incomplete and not consider for further evaluation.

6.0 BID OPENING AND EVALUATION

6.1 OPENING OF TECHNO-COMMERCIAL PART OF BID

6.1.1 On the date and time mentioned in 'Letter Inviting Tender' (if specified), Part-I i.e. the Technical and un-priced commercial Part will be opened in the office of BCPL- Dibrugarh.

6.1.2 In the event, the specified date of bid opening is declared a holiday for BCPL, the bid shall be opened on the next working day at the specified time and location.

6.2 CLARIFICATION & ADDITIONAL INFORMATION

During evaluation, BCPL may request Bidder for any clarification on the bid, additional or outstanding documents. Bidder shall submit all additional documents in one original and one copy. However, seeking clarification shall be on sole discretion of BCPL.

6.2 TECHNO-COMMERCIAL DISCUSSIONS

6.3.1 Bid of the bidder who submits the required EMD shall be taken up for detailed evaluation.

6.3.2 Techno-commercial discussions with bidder shall be arranged, if needed. Bidder shall depute his authorized representative(s) for attending the discussion. The representative(s) attending the discussions shall produce authorization from his organization to attend the discussions and sign the minutes of meeting on behalf of his organization. The authorized representatives must be competent and empowered to settle all technical and commercial issues.

6.4 BID EVALUATION CRITERIA

6.4.1 Bid is the responsibility of bidder and no relief or consideration can be given for errors and omissions made by the bidder inadvertently or adherently. Bid with incomplete information is liable for rejection.

6.4.2 The techno-commercial part of bid shall be evaluated as per bid evaluation criteria, wherever indicated in the bidding document.

6.4.3 Non-submission of details / documents as per Para (4.4.) above may lead to rejection of bid.

6.4.4 DEVIATIONS TO CRITICAL STIPULATIONS:

- I) Deviations to critical stipulations of bidding document as mentioned below are not acceptable. Bidder taking deviations to the following bid stipulations may not be considered for price opening
- a) EMD / Bid security
 - b) Contract period
 - c) Total Scope of work
 - d) Security deposit / Performance Bank Guarantee.
 - e) Validity of bids
 - f) Schedule of Rates
 - g) Payment Terms
 - h) Arbitration clause
 - i) Force Majeure
 - j) Clause No. 6.4.2 & 6.6 of "Instructions to Bidders"

6.4.5 DETERMINATION OF RESPONSIVENESS

- i) Prior to the financial evaluation of bids, the BCPL will determine whether each bid is substantially responsive to the requirements of the Bidding document.
- ii) For the purpose of this clause, a substantially responsive bid is one, which conforms to all the terms and conditions and specifications of the bidding document without material deviation or reservation. A material deviation or reservation is one which affects in any substantial way the scope, quality, or performance of the works or which limits in any substantial way, in consistent with the bidding document, the employer's rights of contractor's obligation would affect unfairly the competitive position of bidders presenting substantially responsive bids.
- iii) If a bid is not substantially responsive to the requirements of the Bidding documents, it may be rejected by the BCPL.

6.4.6 Bidders must submit the bid in line with bid stipulations without taking any deviation. However, in case it becomes unavoidable and the Bidder seek some clarifications / queries with respect to technical / commercial part, the bidder may stipulate the same strictly as per Annexure-I for the technical and commercial part.

6.4.7 **UNSOLICITED POST BIDDING MODIFICATIONS:**

Bidders are advised to quote strictly as per terms and conditions of the bidding document and not to stipulate any deviations / exceptions. Once quoted, the bidder shall not make any subsequent changes, whether resulting or arising out of any technical / commercial clarifications sought on any deviations or exceptions mentioned in the bid. Any proposal price change is likely to render the bid liable for rejection.

6.4.8 Bidders must ensure that complete bid along with all details as sought are submitted as per provisions of the bidding document. The checklist has been provided in the bidding document to ensure that any required details are not missed by the bidders while submitting their offer.

6.4.9 Proposed deployment of resources like manpower, equipment, tools and tackles shall be looked into to ensure performance of work within stipulated time period

6.4.10 The concurrent commitments of Bidder on various jobs under execution by the bidder will be taken into account to assess the spare capacity available with the Bidder.

6.4.11 Performance of bidder on work executed shall be taken into consideration before selecting the bidder for opening of his price bid.

6.5 **OPENING OF PRICE PART OF BID**

Priced commercial part of only those bidder, whose bids are considered techno-commercial acceptable, shall be opened.

6.6 EVALUATION OF PRICE PART

The "Schedule of Rates" quoted by the bidder shall be taken up for evaluation on overall basis. Price bids containing additional qualifications not mentioned in Techno-Commercial part of the bid shall be summarily rejected.

6.7 PURCHASE PREFERENCE TO PUBLIC SECTOR ENTERPRISE

Owner reserves the right to grant purchase preference to Public Sector Enterprises in terms of the latest applicable guidelines of the Government of India.

6.8 PROCESS TO BE CONFIDENTIAL

Information related to the examination, clarification, evaluation and comparison of bids recommendations for award of contract shall not be disclosed to bidder or other person not officially concerned with such process. Any effort by bidder to influence the BCPL processing of bid or award decisions may result in rejection of such Bids.

6.9 OWNER'S RIGHT TO ACCEPT OR REJECT A BID

- 6.9.1 BCPL reserves the right to accept a bid other than the lowest and to accept or reject any bid in whole or part, to annul the bidding process or to reject all bids with or without notice or reasons. Such decisions by BCPL shall bear no liability whatsoever consequent upon such decisions.

7.0 AWARD OF WORK AND CONTRACT DOCUMENT**7.1 AWARD OF WORK**

- 7.1.1 The bidder whose bid is accepted by BCPL shall be issued Letter of Intent / fax of Intent (LOI/FOI) prior to expiry of bid validity. Bidder shall confirm acceptance by returning a signed copy of the LOI / FOI.
- 7.1.2 BCPL shall not be obliged to furnish any information / clarification / explanation to the unsuccessful bidders as regards non acceptance of their bids. Except for refund of EMD to unsuccessful bidder, BCPL shall correspond only with the successful bidders.

7.2 CONTRACT DOCUMENT

- 7.2.1 The successful bidder shall be required to execute a formal agreement in accordance with the 'Form of Contract' (Annexed to General Condition of Contract (GCC), within 10 days of receipt of LOI/FOI/Detailed Letter of Award specified period.

- 7.2.2 Contract Documents to be signed between BCPL & selected bidder shall consist of the followings:-

- i) Agreement on stamp paper of appropriate value.
- ii) Letter of Intent / Fax of Intent
- iii) Detailed letter of award / acceptance along with agreed variation and other enclosures.
- iv) Original bidding document along with set of drawings
- v) Addendum/Corrigendum issued to bidder, if any.

- 7.2.2 Stamp paper of appropriate value shall be provided by the successful bidder after ascertaining its value.

- 7.2.4 The statement of Agreed variation prepared based on the deviation if any, finally retained by the bidder and accepted by BCPL, shall form part of detailed letter of award.



B R A H M A P U T R A C R A C K E R A N D
P O L Y M E R L I M I T E D

GENERAL CONDITIONS OF CONTRACT (GCC)

BCPL

Wherever written as "**GAIL**" in GCC should be read as "**BCPL**"

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GENERAL CONDITIONS OF CONTRACT**SECTION- I DEFINITIONS****1. Definition of Terms:**

1.1 In this CONTRACT (as here-in-after defined) the following words and expressions shall have the meanings hereby assigned to them except where the context otherwise required.

- 1.1.1. The EMPLOYER/COMPANY/BCPL means Brahmaputra Cracker & Polymer Ltd., a public limited company, incorporated under the Company's act 1956 and having its Registered office at Hotel Brahmaputra Ashok, M. G. Road, Guwahati – 781 001 and includes its successors and assigns.
- 1.1.2. The "CONTRACTOR" means the person or the persons, firm or Company or corporation whose tender has been accepted by the EMPLOYER and includes the CONTRACTOR's legal Representatives his successors and permitted assigns.
- 1.1.3. The ENGINEER/ENGINEER-IN-CHARGE" shall mean the person designated from time to time by the GAIL and shall include those who are expressly authorized by him to act for and on his behalf for operation of this CONTRACT.
- 1.1.4. The "WORK" shall mean and include all items and things to be supplied/ done and services and activities to be performed by the CONTRACTOR in pursuant to and in accordance with CONTRACT or part thereof as the case may be and shall include all extra, additional, altered or substituted works as required for purpose of the CONTRACT.
- 1.1.5. The "PERMANENT WORK" means and includes works which will be incorporated in and form a part of the work to be handed over to the EMPLOYER by the CONTRACTOR on completion of the CONTRACT.
- 1.1.6. "CONSTRUCTION EQUIPMENT" means all appliances/equipment and things whatsoever nature for the use in or for the execution, completion, operation, or maintenance of the work or temporary works (as hereinafter defined) but does not include materials or other things intended to form or to be incorporated into the WORK, or camping facilities.
- 1.1.7. "CONTRACT DOCUMENTS" means collectively the Tender Documents, Designs, Drawings, Specification, Schedule of Quantities and Rates, Letter of Acceptance and agreed variations if any, and such other documents constituting the tender and acceptance thereof.
- 1.1.8. CONSULTANT: means ----- who are the consulting engineer to the Employer for this project and having registered office at -----

- 1.1.9. The "SUB-CONTRACTOR" means any person or firm or Company (other than the CONTRACTOR) to whom any part of the work has been entrusted by the CONTRACTOR, with the written consent of the ENGINEER-IN-CHARGE, and the legal representatives, successors and permitted assigns of such person, firm or company.
- 1.1.10. The "CONTRACT" shall mean the Agreement between the EMPLOYER and the CONTRACTOR for the execution of the works including therein all contract documents.
- 1.1.11. The "SPECIFICATION" shall mean all directions the various technical specifications, provisions attached and referred to the Tender Documents which pertain to the method and manner of performing the work or works to the quantities and qualities of the work or works and the materials to be furnished under the CONTRACT for the work or works, as may be amplified or modified by the GAIL or ENGINEER-IN-CHARGE during the performance of CONTRACT in order to provide the unforeseen conditions or in the best interests of the work or works. It shall also include the latest edition of relevant Standard Specifications including all addenda/corrigenda published before entering into CONTRACT.
- 1.1.12. The "DRAWINGS" shall include maps, plans and tracings or prints or sketches thereof with any modifications approved in writing by the ENGINEER- IN-CHARGE and such other drawing as may, from time to time, be furnished or approved in writing by the ENGINEER-IN-CHARGE.
- 1.1.13. The "TENDER" means the proposal along with supporting documents submitted by the CONTRACTOR for consideration by the EMPLOYER.
- 1.1.14. The "CHANGE ORDER" means an order given in writing by the ENGINEER-IN-CHARGE to effect additions to or deletion from and alteration in the works.
- 1.1.15. The "COMPLETION CERTIFICATE" shall mean the certificate to be issued by the ENGINEER-IN-CHARGE when the works have been completed entirely in accordance with CONTRACT DOCUMENT to his satisfaction.
- 1.1.16. The "FINAL CERTIFICATE" in relation to a work means the certificate regarding the satisfactory compliance of various provision of the CONTRACT by the CONTRACTOR issued by the ENGINEER-IN-CHARGE/EMPLOYER after the period of liability is over.
- 1.1.17. "DEFECT LIABILITY PERIOD" in relation to a work means the specified period from the date of COMPLETION CERTIFICATE up to the date of issue of FINAL CERTIFICATE during which the CONTRACTOR stands responsible for rectifying all defects that may appear in the works executed by the CONTRACTOR in pursuance of the CONTRACT and includes warranties against Manufacturing/Fabrication/ Erection/Construction defects covering all materials plants, equipment, components, and the like supplied by the CONTRACTOR, works executed against workmanship defects.
- 1.1.18. The "APPOINTING AUTHORITY" for the purpose of arbitration shall be the CHAIRMAN and MANAGING DIRECTOR or any other person so designated by the EMPLOYER.
- 1.1.19. "TEMPORARY WORKS" shall mean all temporary works of every kind required in or about the execution, completion or maintenance of works.
- 1.1.20. "PLANS" shall mean all maps, sketches and layouts as are incorporated in the CONTRACT in order to define broadly the scope and specifications of the work or works, and all reproductions thereof.
- 1.1.21. "SITE" shall mean the lands and other places on, under, in or through which the permanent works are to be carried out and any other lands or places provided by the EMPLOYER for the purpose of the CONTRACT.
- 1.1.22. "NOTICE IN WRITING OR WRITTEN NOTICE" shall mean a notice in written, typed or printed characters sent (unless delivered personally or otherwise proved to have been received by the addressee) by registered post to the latest known private or business address or registered office of the addressee and shall be deemed to have been received in the ordinary course of post it would have been delivered.
- 1.1.23. "APPROVED" shall mean approved in writing including subsequent written confirmation of previous verbal approval and "APPROVAL" means approval in writing including as aforesaid.
- 1.1.24. "LETTER OF INTENT/FAX OF INTENT" shall mean intimation by a Fax/Letter to Tenderer(s) that the tender has been accepted in accordance with the provisions contained in the letter.
- 1.1.25. "DAY" means a day of 24 hours from midnight to midnight irrespective of the number of hours worked in that day.
- 1.1.26. "WORKING DAY" means any day which is not declared to be holiday or rest day by the EMPLOYER.
- 1.1.27. "WEEK" means a period of any consecutive seven days.
- 1.1.28. "METRIC SYSTEM" - All technical documents regarding the construction of works are given in the metric system and all work in the project should be carried out according to the metric system. All documents concerning the work shall also be maintained in the metric system.
- 1.1.29. "VALUE OF CONTRACT" or "TOTAL CONTRACT PRICE" shall mean the sum accepted or the sum calculated in accordance with the prices accepted in tender and/or the CONTRACT rates as payable to the CONTRACTOR for the entire execution and full completion of the work, including change order.
- 1.1.30. "LANGUAGE FOR DRAWINGS AND INSTRUCTION" All the drawings, titles, notes, instruction, dimensions, etc. shall be in English Language.
- 1.1.31. "MOBILIZATION" shall mean establishment of sufficiently adequate infrastructure by the CONTRACTOR at "SITE" comprising of construction equipments, aids, tools tackles including setting of site offices with facilities such as power, water, communication etc. establishing manpower

organization comprising of Resident Engineers, Supervising personnel and an adequate strength of skilled, semi-skilled and un-skilled workers, who with the so established infrastructure shall be in a position to commence execution of work at site(s), in accordance with the agreed Time Schedule of Completion of Work. "MOBILISATION" shall be considered to have been achieved, if the CONTRACTOR is able to establish infrastructure as per Time Schedule, where so warranted in accordance with agreed schedule of work implementation to the satisfaction of ENGINEER-IN-CHARGE/ EMPLOYER.

- 1.1.32. "COMMISSIONING" shall mean pressing into service of the system including the plant(s), equipment(s), vessel(s), pipeline, machinery(ies), or any other section or sub-section of installation(s) pertaining to the work of the CONTRACTOR after successful testing and trial runs of the same. "COMMISSIONING" can be either for a completed system or a part of system of a combination of systems or sub-systems and can be performed in any sequence as desired by EMPLOYER and in a manner established to be made suited according to availability of pre-requisites. Any such readjustments made by EMPLOYER in performance of "COMMISSIONING" activity will not be construed to be violating CONTRACT provisions and CONTRACTOR shall be deemed to have provided for the same.

SECTION-II GENERAL INFORMATION

2. General Information

- 2.1 a) Location of Site: The proposed location of Project site is defined in the Special Conditions of Contract.
 b) Access by Road: CONTRACTOR, if necessary, shall build other temporary access roads to the actual site of construction for his own work at his own cost. The CONTRACTOR shall be required to permit the use of the roads so constructed by him for vehicles of any other parties who may be engaged on the project site. The CONTRACTOR shall also facilitate the construction of the permanent roads should the construction there of start while he is engaged on this work. He shall make allowance in his tender for any inconvenience he anticipates on such account. Non-availability of access roads, railway siding and railway wagons for the use of the CONTRACTOR shall in no case condone any delay in the execution of WORK nor be the cause for any claim for compensation against the EMPLOYER.
- 2.2 Scope of Work: The scope of WORK is defined in the Technical Part of the tender document. The CONTRACTOR shall provide all necessary materials, equipment, labour etc. for the execution and maintenance of the WORK till completion unless otherwise mentioned in the Tender Document.
- 2.3 Water Supply: Contractor will have to make his own arrangements for supply of water to his labour camps and for works. All pumping installations, pipe net work and distribution system will have to be carried out by the Contractor at his own risk and cost. Alternatively the Employer at his discretion may endeavour to provide water to the Contractor at the Employer's source of supply provided the Contractor makes his own arrangement for the water meter which shall be in custody of the Employer and other pipe net works from source of supply and such distribution pipe network shall have prior approval of the Engineer-in-Charge so as not to interfere with the layout and progress of the other construction works. In such case, the rate for water shall be deducted from the running account bills. However, the Employer does not guarantee the supply of water and this does not relieve the Contractor of his responsibility in making his own arrangement and for the timely completion of the various works as stipulated.
- 2.4 Power Supply:
- 2.4.1 Subject to availability, EMPLOYER will supply power at 400/440 V at only one point at the nearest sub-station, from where the CONTRACTOR will make his own arrangement for temporary distribution. The point of supply will not be more than 500 m away from the CONTRACTOR'S premises. All the works will be done as per the applicable regulations and passed by the ENGINEER-IN-CHARGE. The temporary line will be removed forthwith after the completion of work or if there is any hindrance caused to the other works due to the alignment of these lines, the CONTRACTOR will re-route or remove the temporary lines at his own cost. The CONTRACTOR at his cost will also provide suitable electric meters, fuses, switches, etc. for purposes of payment to the EMPLOYER which should be in the custody and control of the EMPLOYER. The cost of power supply shall be payable to the EMPLOYER every month for Construction Works power which would be deducted from the running account bills. The EMPLOYER shall not, however, guarantee the supply of electricity nor have any liability in respect thereof. No claim for compensation for any failure or short supply of electricity will be admissible.
- 2.4.2 It shall be the responsibility of the CONTRACTOR to provide and maintain the complete installation on the load side of the supply with due regard to safety requirement at site. All cabling, equipment, installations etc. shall comply in all respects with the latest statutory requirements and safety provisions i.e., as per the Central/State Electricity Acts and Rules etc. The CONTRACTOR will ensure that his equipment and Electrical Wiring etc., are installed, modified, maintained by a licensed Electrician/Supervisor. A test certificate is to be produced to the ENGINEER-IN-CHARGE for his approval, before power is made available.
- 2.4.3 At all times, IEA regulations shall be followed failing which the EMPLOYER has a right to disconnect the power supply without any reference to the CONTRACTOR. No claim shall be entertained for such disconnection by the ENGINEER-IN-CHARGE. Power supply will be reconnected only after production of fresh certificate from authorized electrical supervisors.

- 2.4.4 The EMPLOYER is not liable for any loss or damage to the CONTRACTOR's equipment as a result of variation in voltage or frequency or interruption in power supply or other loss to the CONTRACTOR arising therefrom.
- 2.4.5 The CONTRACTOR shall ensure that the Electrical equipment installed by him are such that average power factors does not fall below 0.90 at his premises. In case power factor falls below 0.90 in any month, he will reimburse to the EMPLOYER at the penal rate determined by the EMPLOYER for all units consumed during the month.
- 2.4.6 The power supply required for CONTRACTOR's colony near the plant site will be determined by the EMPLOYER and shall be as per State Electricity Board's Rules and other statutory provisions applicable for such installations from time to time. In case of power supply to CONTRACTOR's colony, the power will be made available at a single point and the CONTRACTOR shall make his own arrangement at his own cost for distribution to the occupants of the colony as per Electricity Rules and Acts. The site and colony shall be sufficiently illuminated to avoid accidents.
- 2.4.7 The CONTRACTOR will have to provide and install his own lights and power meters which will be governed as per Central/State Government Electricity Rules. The metres shall be sealed by the EMPLOYER.
- 2.4.8 In case of damage of any of the EMPLOYER's equipment on account of fault, intentional or unintentional on the part of the CONTRACTOR, the EMPLOYER reserves the right to recover the cost of such damage from the CONTRACTOR's bill. Cost of HRC Fuses replaced at the EMPLOYER's terminals due to any fault in the CONTRACTOR's installation shall be to CONTRACTOR's account at the rates decided by the ENGINEER-IN-CHARGE.
- 2.4.9 Only motors upto 3 HP will be allowed to be started direct on line. For motors above 3 HP and upto 100 HP a suitable Starting device approved by the ENGINEER- IN-CHARGE shall be provided by the CONTRACTOR. For motors above 100 HP slipring induction motors with suitable starting devices as approved by the ENGINEER- IN-CHARGE shall be provided by the CONTRACTOR.
- 2.4.10 The CONTRACTOR shall ensure at his cost that all electrical lines and equipment and all installations are approved by the State Electricity Inspector before power can be supplied to the EMPLOYER.
- 2.4.11 The total requirement of power shall be indicated by the tenderer alongwith his tender.
- 2.5 Land for Contractor's Field Office, Godown and Workshop: The EMPLOYER will, at his own discretion and convenience and for the duration of the execution of the work make available near the site, land for construction of CONTRACTOR's Temporary Field Office, godowns workshops and assembly yard required for the execution of the CONTRACT. The CONTRACTOR shall at his own cost construct all these temporary buildings and provide suitable water supply and sanitary arrangement and get the same approved by the ENGINEER-IN-CHARGE. On completion of the works undertaken by the CONTRACTOR, he shall remove all temporary works erected by him and have the SITE cleaned as directed by ENGINEER-IN-CHARGE. If the CONTRACTOR shall fail to comply with these requirements, the ENGINEER-IN-CHARGE may at he expenses of the CONTRACTOR remove such surplus, and rubbish materials and dispose off the same as he deems fit and get the site cleared as aforesaid; and CONTRACTOR shall forthwith pay the amount of all expenses so incurred and shall have no claim in respect of any such surplus materials disposed off as aforesaid. But the EMPLOYER reserves the right to ask the CONTRACTOR any time during the pendency of the CONTRACT to vacate the land by giving 7 days notice on security reasons or on national interest or otherwise. Rent may be charged for the land so occupied from contractor by the Employer. The CONTRACTOR shall put up temporary structures as required by them for their office, fabrication shop and construction stores only in the area allocated to them on the project site by the EMPLOYER or his authorised representative. No tea stalls/canteens should be put up or allowed to be put up by any CONTRACTOR in the allotted land or complex area without written permission of the EMPLOYER. No unauthorised buildings, constructions or structures should be put up by the CONTRACTOR anywhere on the project site. For uninterrupted fabrication work, the CONTRACTOR shall put up temporary covered structures at his cost within Area in the location allocated to them in the project site by the EMPLOYER or his authorised representative. No person except for authorised watchman shall be allowed to stay in the plant area/CONTRACTOR's area after completion of the day's job without prior written permission from ENGINEER-IN-CHARGE.
- 2.6 Land for Residential Accommodation:-: No Land shall be made available for residential accommodation for staff and labour of CONTRACTOR.

SECTION-III GENERAL INSTRUCTIONS TO TENDERERS

3. Submission of Tender:

- 3.1 TENDER must be submitted without making any additions, alterations, and as per details given in other clauses hereunder. The requisite details shall be filled in by the TENDERER at space provided under "Submission of Tender at the beginning of GCC of Tender Document. The rate shall be filled only in the schedule given in this Tender Document.
- 3.2 Addenda/Corrigenda to this Tender Document, if issued, must be signed, submitted alongwith the Tender Document. the tenderer should write clearly the revised quantities in Schedule of Rates of Tender Document and should price the WORK based on revised quantities when amendments of quantities are issued in addenda.
- 3.3 Covering letter alongwith its enclosures accompanying the Tender Document and all further correspondence shall be submitted in duplicate.

- 3.4 Tenderers are advised to submit quotations based strictly on the terms and conditions and specifications contained in the Tender Documents and not to stipulate any deviations.
- 3.5 Tenders should always be placed in double sealed covers, superscribing ["QUOTATION DO NOT OPEN" Tender for _____ Project of GAIL (India) Limited due for opening on _____].
The *Full Name, Address and Telegraphic Address, Fax No. of the Tenderers* shall be written on the bottom left hand corner of the sealed cover.

4. Documents:

- 4.1 General: The tenders as submitted, will consist of the following:

- (i) Complete set of Tender Documents (Original) as sold duly filled in and signed by the tenderer as prescribed in different clauses of the Tender Documents.
- (ii) Earnest money in the manner specified in Clause 6 hereof.
- (iii) Power of Attorney or a true copy thereof duly attested by a Gazetted Officer in case an authorised representative has signed the tender, as required by Clause 14 hereof.
- (iv) Information regarding tenderers in the proforma enclosed.
- (v) Details of work of similar type and magnitude carried out by the Tenderer in the proforma provided in the tender document.
- (vi) Organisation chart giving details of field management at site, the tenderer proposes to have for this job.
- (vii) Details of construction plant and equipments available with the tenderer for using in this work.
- (viii) Solvency Certificate from Scheduled Bank to prove the financial ability to carry out the work tendered for.
- (ix) Latest Balance Sheet and Profit & Loss Account duly audited.
- (x) Details of present commitment as per proforma enclosed to tender.
- (xi) Data required regarding SUB-CONTRACTOR(s)/ Supplier/ Manufacturers and other technical informations the tenderer wish to furnish.
- (xii) Provident fund registration certificate
- (xiii) List showing all enclosures to tender.

- 4.2 All pages are to be Initialed: All signatures in Tender Documents shall be dated, as well as, all the pages of all sections of Tender Documents shall be initialed at the lower right hand corner and signed wherever required in the tender papers by the TENDERER or by a person holding power of attorney authorising him to sign on behalf of the tenderer before submission of tender.

- 4.3 Rates to be in Figures and Words: The tender should quote in English both in figures as well as in words the rates and amounts tendered by him in the Schedule of Rates of Tender submitted by the CONTRACTOR for each item and in such a way that interpolation is not possible. The amount for each item should be worked out and entered and requisite total given of all items, both in figures and in words. The tendered amount for the work shall be entered in the tender and duly signed by the Tenderer. If some discrepancies are found between the RATES in FIGURES and WORDS or the AMOUNT shown in the tender, the following procedure shall be followed:

- a) When there is difference between the rates in figures and words, the rate which corresponds to the amount worked out by the tenderer shall be taken as correct.
- b) When the rate quoted by the tenderer in figures and words tally but the amount is incorrect the rate quoted by the tenderer shall be taken as correct.
- c) When it is not possible to ascertain the correct rate by either of above methods, the rate quoted in words shall be taken as correct.

- 4.4 Corrections and Erasures: All correction(s) and alteration(s) in the entries of tender paper shall be signed in full by the TENDERER with date. No erasure or over writing is permissible.

- 4.5 Signature of Tenderer:

- 4.5.1 The TENDERER shall contain the name, residence and place of business of person or persons making the tender and shall be signed by the TENDERER with his usual signature. Partnership firms shall furnish the full names of all partners in the tender. It should be signed in the partnership's name by all the partners or by duly authorised representatives followed by the name and designation of the person signing. Tender by a corporation shall be signed by an authorised representative, and a Power of Attorney in that behalf shall accompany the tender. A copy of the constitution of the firm with names of all partners shall be furnished.

- 4.5.2 When a tenderer signs a tender in a language other than English, the total amount tendered should, in addition, be written in the same language. The signature should be attested by at least one witness.

- 4.6 Witness: Witness and sureties shall be persons of status and property and their names, occupation and address shall be stated below their signature.

- 4.7 Details of Experience: The tenderer should furnish, alongwith his tender, details of previous experience in having successfully completed in the recent past works of this nature, together with the names of Employers, location of sites and value of contract, date of commencement and completion of work, delays if any, reasons of delay and other details alongwith documentary evidence(s).

- 4.8 Liability of Government of India: It is expressly understood and agreed by and between Bidder or/Contractor and M/s BCPL, and that M/s BCPL, is entering into this agreement solely on its own behalf and not on behalf of any other person or entity. In particular, it is expressly understood and agreed that the Government of India is not a party to this agreement and has no liabilities, obligations or rights hereunder. It is expressly understood and agreed that M/s BCPL is an independent legal entity with power and authority to enter into contracts solely on its

own behalf under the applicable Laws of India and general principles of Contract Law. The Bidder/Contractor expressly agrees, acknowledges and understands that M/s BCPL is not an agent, representative or delegate of the Government of India. It is further understood and agreed that the Government of India is not and shall not be liable for any acts, omissions, commissions, breaches or other wrongs arising out of the contract. Accordingly, Bidder/Contractor hereby expressly waives, releases and foregoes any and all actions or claims, including cross claims, impleader claims or counter claims against the Government of India arising out of this contract and covenants not to sue to Government of India as to any manner, claim, cause of action or thing whatsoever arising of or under this agreement.

5. Transfer of Tender Documents:

5.1 Transfer of Tender Documents purchased by one intending tenderer to another is not permissible.

6. Earnest Money:

6.1 The bidder must pay Earnest Money as given in the letter /notice inviting tenders and attach the official receipt with the tender failing which the tender is liable to be rejected and representatives of such tenderers will not be allowed to attend the tender opening. Earnest Money can be paid in Demand Drafts or Bank Guarantee or Banker's Cheque or Letter of Credit from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve Bank of India as scheduled foreign bank. However, other than the Nationalised Indian Banks, the banks whose BGs are furnished, must be commercial banks having net worth in excess of Rs. 100 crores and a declaration to this effect should be made by such commercial bank either in the bank guarantee itself or separately on a letter head. The bid guarantee shall be submitted in the prescribed format .

Note: The Bank Guarantee so furnished by the tenderer shall be in the proforma prescribed by the EMPLOYER. No interest shall be paid by the EMPLOYER on the Earnest Money deposited by the tenderer. The Bank Guarantee furnished in lieu of Earnest Money shall be kept valid for a period of "SIX MONTHS" from the date of opening of tender.(TWO MONTHS beyond the bid validity). The Earnest Money deposited by successful tenderer shall be forfeited if the Contractor fails to furnish the requisite Contract Performance Security as per clause 24 hereof and /or fails to start work within a period of 15 days or fails to execute the AGREEMENT within 15 days of the receipt by him of the Notification of Acceptance of Tender.

Note: The Earnest Money of the unsuccessful bidder will be returned by EMPLOYER/CONSULTANT, directly to the tenderer (s), within a reasonable period of time but not later than 30 days after the expiration of the period of bid validity prescribed by EMPLOYER.

7 Validity:

7.1 Tender submitted by tenderers shall remain valid for acceptance for a period of "4 MONTHS" from the date of opening of the tender. The tenderers shall not be entitled during the said period of 4 months, without the consent in writing of the EMPLOYER, to revoke or cancel his tender or to vary the tender given or any term thereof. In case of tender revoking or canceling his tender or varying any term in regard thereof without the consent of EMPLOYER in writing, the EMPLOYER shall forfeit Earnest Money paid by him alongwith tender.

8 Addenda/Corrigenda

8.1 Addenda/ Corrigenda to the Tender Documents will be issued in duplicate prior to the date of opening of the tenders to clarify documents or to reflect modification in design or CONTRACT terms.

8.2 Each addenda/ corrigendum issued will be issued in duplicate to each person or organisation to whom set of Tender Documents has been issued. Recipient will retain tenderer's copy of each Addendum/Corrigendum and attach original copy duly signed along with his offer. All Addenda/Corrigenda issued shall become part of Tender Documents.

9 Right of Employer to Accept or Reject Tender:

9.1 The right to accept the tender will rest with the EMPLOYER. The EMPLOYER, however, does not bind himself to accept the lowest tender, and reserves to itself the authority to reject any or all the tenders received without assigning any reason whatsoever. At the option of the Employer, the work for which the tender had been invited, may be awarded to one Contractor or split between more than one bidders, in which case the award will be made for only that part of the work, in respect of which the bid has been accepted. The quoted rates should hold good for such eventualities. Tenders in which any of the particulars and prescribed information are missing or are incomplete in any respect and/or the prescribed conditions are not fulfilled are liable to be rejected. The Tender containing uncalled for remarks or any additional conditions are liable to be rejected. Canvassing in connection with tenders is strictly prohibited and tenders submitted by the Tenderers who resort to canvassing will be liable to rejection.

10 Time Schedule

10.1 The WORK shall be executed strictly as per the TIME SCHEDULE specified in TENDER/CONTRACT Document. The period of construction given in Time Schedule includes the time required for mobilisation as well as testing, rectifications if any, retesting and completion in all respects to the entire satisfaction of the ENGINEER-IN-CHARGE.

10.2 A joint programme of execution of the WORK will be prepared by the ENGINEER-IN-CHARGE and CONTRACTOR based on priority requirement of this project. This programme will take into account the time of completion mentioned in 10.1 above and the time allowed for the priority works by the ENGINEER-IN-CHARGE.

10.3 Monthly/Weekly construction programme will; be drawn up by the ENGINEER-IN-CHARGE jointly with the CONTRACTOR, based on availability of work fronts and the joint construction programme as per 10.2 above. The CONTRACTOR shall scrupulously adhere to these targets /programmes by deploying adequate personnel, construction tools and tackles and he shall also supply himself all materials of his scope of supply in good time to achieve the targets/programmes. In all matters concerning the extent of targets set out in the weekly and monthly programmes and the degree of achievements the decision of the ENGINEER-IN-CHARGE will be final and binding on the CONTRACTOR.

11 Tenderer's Responsibility

11.1 The intending tenderers shall be deemed to have visited the SITE and familiarised submitting the tender. Non-familiarity with the site conditions will not be considered a reason either for extra claims or for not carrying out the works in strict conformity with the DRAWINGS and SPECIFICATIONS or for any delay in performance.

12 Retired Government or Company Officers

12.1 No Engineer of Gazetted rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the States/ Central Government or of the EMPLOYER is allowed to work as a CONTRACTOR for a period of two years after his retirement from Government Service, or from the employment of the EMPLOYER without the previous permission of the EMPLOYER. The CONTRACT, if awarded, is liable to be cancelled if either the CONTRACTOR or any of his employees is found at any time to be such a person, who has not obtained the permission of the State/Central Government or of the EMPLOYER as aforesaid before submission of tender, or engagement in the CONTRACTOR'S service as the case may be.

13 Signing of the Contract:

13.1 The successful tenderer shall be required to execute an AGREEMENT in the proforma attached with TENDER DOCUMENT within 15 days of the receipt by him of the Notification of Acceptance of Tender. In the event of failure on the part of the successful tenderer to sign the AGREEMENT within the above stipulated period, the Earnest Money or his initial deposit will be forfeited and the acceptance of the tender shall be considered as cancelled.

14 Field Management & Controlling/Coordinating Authority:

14.1 The field management will be the responsibility of the ENGINEER-IN-CHARGE, who will be nominated by the EMPLOYER. The ENGINEER-IN-CHARGE may also authorize his representatives to assist in performing his duties and functions.

14.2 The ENGINEER-IN-CHARGE shall coordinate the works of various agencies engaged at site to ensure minimum disruption of work carried out by different agencies. It shall be the responsibility of the CONTRACTOR to plan and execute the work strictly in accordance with site instructions to avoid hindrance to the work being executed by other agencies.

15 Note to Schedule of Rates:

15.1 The Schedule of Rates should be read in conjunction with all the other sections of the tender.

15.2 The tenderer shall be deemed to have studied the DRAWINGS, SPECIFICATIONS and details of work to be done within TIME SCHEDULE and to have acquainted him of the condition prevailing at site.

15.3 Rates must be filled in the Schedule of Rates of original Tender Documents. If quoted in separate typed sheets no variation in item description or specification shall be accepted. Any exceptions taken by the tenderer to the Schedule of Rates shall be brought out in the terms and conditions of the offer.

15.4 The quantities shown against the various items are only approximate. Any increase or decrease in the quantities shall not form the basis of alteration of the rates quoted and accepted.

15.5 The EMPLOYER reserves the right to interpolate the rates for such items of work falling between similar items of lower and higher magnitude.

16 Policy for Tenders Under Consideration:

16.1 Only Those Tenders which are complete in all respects and are strictly in accordance with the Terms and Conditions and Technical Specifications of Tender Document, shall be considered for evaluation. Such Tenders shall be deemed to be under consideration immediately after opening of Tender and until such time an official intimation of acceptance /rejection of Tender is made by BCPL to the Bidder.

16.2 Zero Deviation: Bidders to note that this is a ZERO DEVIATION TENDER. BCPL will appreciate submission of offer based on the terms and conditions in the enclosed General Conditions of Contract (GCC), Special Conditions of Contract (SCC), Instructions to Bidders (ITB), Scope of Work, technical specifications etc. to avoid wastage of time and money in seeking clarifications on technical/ commercial aspects of the offer. Bidder may note that no technical and commercial clarifications will be sought for after the receipt of the bids. In case of any deviation/nonconformity observed in the bid, it will be liable for rejection.

17 Award of Contract:

17.1 The Acceptance of Tender will be intimated to the successful Tenderer by BCPL either by Telex/ Telegram/ Fax or by Letter or like means-defined as LETTER OF ACCEPTANCE OF TENDER.

17.2 BCPL will be the sole judge in the matter of award of CONTRACT and the decision of BCPL shall be final and binding.

17.3

18 Clarification of Tender Document:

- 18.1 The Tender is required to carefully examine the Technical Specifications, Conditions of Contract, Drawings and other details relating to WORK and given in Tender Document and fully inform himself as to all conditions and matters which may in any way affect the WORK or the cost thereof. In case the Tenderer is in doubt about the completeness or correctness of any of the contents of the Tender Documents he should request in writing for an interpretation/clarification to BCPL in triplicate. GAIL will then issue interpretation/clarification to Tenderer in writing. Such clarifications and or interpretations shall form part of the Specifications and Documents and shall accompany the tender which shall be submitted by tenderer within time and date as specified in invitations to tender.
- 18.2 Verbal clarification and information given by BCPL or its employee(s) or its representatives shall not in any way be binding on BCPL.

19 Local Conditions:

- 19.1 It will be imperative on each tenderer to inform himself of all local conditions and factors which may have any effect on the execution of WORK covered under the Tender Document. In their own interest, the tenderer are requested to familiarise themselves with the Indian Income Tax Act 1961, Indian Companies Act 1956, Indian Customs Act 1962 and other related Acts and Laws and Regulations of India with their latest amendments, as applicable GAIL shall not entertain any requests for clarifications from the tenderer regarding such local conditions.
- 19.2 It must be understood and agreed that such factors have properly been investigated and considered while submitting the tender. No claim for financial or any other adjustments to VALUE OF CONTRACT, on lack of clarity of such factors shall be entertained.

20 Abnormal Rates:

- 20.1 The tenderer is expected to quote rate for each item after careful analysis of cost involved for the performance of the completed item considering all specifications and Conditions of Contract. This will avoid loss of profit or gain in case of curtailment or change of specification for any item. In case it is noticed that the rates quoted by the tenderer for any item are unusually high or unusually low, it will be sufficient cause for the rejection of the tender unless the EMPLOYER is convinced about the reasonableness after scrutiny of the analysis for such rate(s) to be furnished by the tenderer (on demand).

SECTION-IV GENERAL OBLIGATIONS**21 Priority of Contract Documents**

- 21.1 Except if and the extent otherwise provided by the Contract, the provisions of the General Conditions of Contract and Special Conditions shall prevail over those of any other documents forming part of the CONTRACT. Several documents forming the CONTRACT are to be taken as mutually explanatory of one another, but in case of ambiguities or discrepancies the same shall be explained and adjusted by the ENGINEER-IN-CHARGE who shall thereupon issue to the Contractor instructions thereon and in such event, unless otherwise provided in the Contract, the priority of the documents forming the Contract shall be as follows :
- (i) The Contract Agreement ;
 - (ii) The Letter of Acceptance;
 - (iii) The (Instructions to Bidders)ITB;
 - (iv) Special Conditions of Contract (SCC);
 - (v) General Conditions of Contract (GCC)
 - (vi) Any other document forming part of the Contract. Works shown in the DRAWING but not mentioned in the SPECIFICATIONS OR described in the SPECIFICATIONS without being shown in the DRAWINGS shall nevertheless be deemed to be included in the same manner as if they had been specifically shown upon the DRAWINGS and described in the SPECIFICATIONS.
- 21.2 Headings and Marginal Notes: All headings and marginal notes to the clauses of these General Conditions of Contract or to the SPECIFICATIONS or to any other Tender Document are solely for the purpose of giving a concise indication and not a summary of the contents thereof, and they shall never be deemed to be part thereof or be used in the interpretation or construction thereof the CONTRACT.
- 21.3 Singular and Plural: In CONTRACT DOCUMENTS unless otherwise stated specifically, the singular shall include the plural and vice versa wherever the context so requires.
- 21.4 Interpretation: Words implying 'Persons' shall include relevant 'Corporate Companies / Registered Associations/ Body of Individuals/ Firm of Partnership' as the case may be.

22 Special Conditions of Contract:

- 22.1 Special Conditions of Contract shall be read in conjunction with the General Conditions of Contract, specification of Work, Drawings and any other documents forming part of this CONTRACT wherever the context so requires.
- 22.2 Notwithstanding the sub-division of the documents into these separate sections and volumes every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.
- 22.3 Where any portion of the General Condition of Contract is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears the provisions of the Special Conditions of

Contract shall be deemed to over-ride the provisions of the General Conditions of Contract and shall to the extent of such repugnancy, or variations, prevail.

- 22.4 Wherever it is mentioned in the specifications that the CONTRACTOR shall perform certain WORK or provide certain facilities, it is understood that the CONTRACTOR shall do so at his cost and the VALUE OF CONTRACT shall be deemed to have included cost of such performance and provisions, so mentioned.
- 22.5 The materials, design and workmanship shall satisfy the relevant INDIAN STANDARDS, the JOB SPECIFICATIONS contained herein and CODES referred to. Where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.

23 Contractor to obtain his own Information:

- 23.1 The CONTRACTOR in fixing his rate shall for all purpose whatsoever reason may be, deemed to have himself independently obtained all necessary information for the purpose of preparing his tender and his tender as accepted shall be deemed to have taken into account all contingencies as may arise due to such information or lack of same. The correctness of the details, given in the Tender Document to help the CONTRACTOR to make up the tender is not guaranteed. The CONTRACTOR shall be deemed to have examined the CONTRACT DOCUMENTS, to have generally obtained his own information in all matters whatsoever that might affect the carrying out of the works at the scheduled rates and to have satisfied himself to the sufficiency of his tender. Any error in description of quantity or omission therefrom shall not vitiate the CONTRACT or release the CONTRACTOR from executing the work comprised in the CONTRACT according to DRAWINGS and SPECIFICATIONS at the scheduled rates. He is deemed to have known the scope, nature and magnitude of the WORKS and the requirements of materials and labour involved etc., and as to what all works he has to complete in accordance with the CONTRACT documents whatever be the defects, omissions or errors that may be found in the DOCUMENTS. The CONTRACTOR shall be deemed to have visited surroundings, to have satisfied himself to the nature of all existing structures, if any, and also as to the nature and the conditions of the Railways, Roads, Bridges and Culverts, means of transport and communication, whether by land, water or air, and as to possible interruptions thereto and the access and egress from the site, to have made enquiries, examined and satisfied himself as to the sites for obtaining sand, stones, bricks and other materials, the sites for disposal of surplus materials, the available accommodation as to whatever required, depots and such other buildings as may be necessary for executing and completing the works, to have made local independent enquiries as to the sub-soil, subsoil water and variations thereof, storms, prevailing winds, climatic conditions and all other similar matters effecting these works. He is deemed to have acquainted himself as to his liability of payment of Government Taxes, Customs duty and other charges, levies etc. Any neglect or omission or failure on the part of the CONTRACTOR in obtaining necessary and reliable information upon the foregoing or any other matters affecting the CONTRACT shall not relieve him from any risks or liabilities or the entire responsibility from completion of the works at the scheduled rates and times in strict accordance with the CONTRACT. It is, therefore, expected that should the CONTRACTOR have any doubt as to the meaning of any portion of the CONTRACT DOCUMENT he shall set forth the particulars thereof in writing to EMPLOYER in duplicate, before submission of tender. The EMPLOYER may provide such clarification as may be necessary in writing to CONTRACT, such clarifications as provided by EMPLOYER shall form part of CONTRACT DOCUMENTS. No verbal agreement or inference from conversation with any effect or employee of the EMPLOYER either before, during or after the execution of the CONTRACT agreement shall in any way affect or modify and of the terms or obligations herein contained. Any change in layout due to site conditions or technological requirement shall be binding on the CONTRACTOR and no extra claim on this account shall be entertained.

24 Contract Performance Security:

- 24.1 The CONTRACTOR shall furnish to the EMPLOYER, within 15 days from the date of notification of award, a security in the sum of 10% of the accepted value of the tender or the actual value of work to be done whichever is applicable due to any additional work or any other reasons, in the form of a Bank draft/Banker's cheque or Bank Guarantee or irrevocable Letter of credit (as per proforma enclosed) as Contract Performance Security with the EMPLOYER which will be refunded after the expiry of DEFECTS LIABILITY PERIOD.
- 24.2 CONTRACTOR can furnish the Contract Performance Security in the form of Demand Draft or through a Bank Guarantee or through an irrevocable Letter of Credit from any Indian scheduled bank or a branch of an International bank situated in India and registered with Reserve Bank of India as scheduled foreign bank. However, other than the Nationalised Indian Banks, the banks whose BGs are furnished, must be commercial banks having net worth in excess of Rs. 100 crores and a declaration to this effect should be made by such commercial bank either in the bank guarantee itself or separately on a letter head. The bank guarantee or the Letter of Credit shall be submitted in the prescribed format.
- 24.3 If the CONTRACTOR/SUB-CONTRACTOR or their employees or the CONTRACTOR's agents and representatives shall damage, break, deface or destroy any property belonging to the EMPLOYER or others during the execution of the CONTRACT, the same shall be made good by the CONTRACTOR at his own expenses and in default thereof, the ENGINEER-IN-CHARGE may cause the same to be made good by other agencies and recover expenses from the CONTRACTOR (for which the certificate of the ENGINEER- IN-CHARGE shall be final).
- 24.4 All compensation or other sums of money payable by the CONTRACTOR to the EMPLOYER under terms of this CONTRACT may be deducted from or paid by the encashment or sale of a sufficient part of his Contract Performance Security or from any sums which may be due or may become due to the CONTRACTOR by the EMPLOYER of any account whatsoever and in the event of his Contract Performance Security being reduced by

reasons of any such deductions or sale of aforesaid, the CONTRACTOR shall within ten days thereafter make good in cash, bank drafts as aforesaid any sum or sums which may have been deducted from or realised by sale of his Contract Performance Security, or any part thereof. No interest shall be payable by the EMPLOYER for sum deposited as Contract Performance Security.

- 24.5 Failure of the successful bidder to comply with the requirements of this Clause shall constitute sufficient grounds for the annulment of the award and the forfeiture of bid security.

25 Time of Performance:

25.1 Time for Mobilisation: The work covered by this CONTRACT shall be commenced within fifteen (15) days, the date of letter/Fax of Intent and be completed in stages on or before the dates as mentioned in the TIME SCHEDULE OF COMPLETION OF WORK. The CONTRACTOR should bear in mind that time is the essence of this agreement. Request for revision of construction time after tenders are opened will not receive consideration. The above period of fifteen (15) days is included within the overall COMPLETION SCHEDULE, not over and above the completion time to any additional work or any other reasons.

25.2 Time Schedule of Construction:

25.2.1 The general Time Schedule of construction is given in the TENDER DOCUMENT. CONTRACTOR should prepare a detailed monthly or weekly construction program jointly with the ENGINEER-IN-CHARGE within 15 days of receipt of LETTER/FAX OF INTENT or ACCEPTANCE OF TENDER. The WORK shall be executed strictly as per the Time Schedule given in the CONTRACT DOCUMENT. The period of construction given includes the time required for mobilisation testing, rectifications, if any, retesting and completion in all respects in accordance with CONTRACT DOCUMENT to the entire satisfaction of the ENGINEER-IN-CHARGE.

25.2.2 The CONTRACTOR shall submit a detailed PERT network within the time frame agreed above consisting of adequate number of activities covering various key phases of the WORK such as design, procurement, manufacturing, shipment and field erection activities within fifteen (15) days from the date of LETTER/FAX OF INTENT. This network shall also indicate the interface facilities to be provided by the EMPLOYER and the dates by which such facilities are needed.

25.2.3 CONTRACTOR shall discuss the network so submitted with the EMPLOYER and the agreed network which may be in the form as submitted with the EMPLOYER or in revised form in line with the outcome of discussions shall form part of the CONTRACT, to be signed within fifteen (15) days from the date of LETTER OF ACCEPTANCE OF TENDER. During the performance of the CONTRACT, if in the opinion of the EMPLOYER proper progress is not maintained suitable changes shall be made in the CONTRACTOR's operation to ensure proper progress. The above PERT network shall be reviewed periodically and reports shall be submitted by the CONTRACTOR as directed by EMPLOYER.

26 Force Majeure:

26.1 CONDITIONS FOR FORCE MAJEURE: In the event of either party being rendered unable by Force Majeure to perform any obligations required to be performed by them under the CONTRACT the relative obligation of the party affected by such Force Majeures shall upon notification to the other party be suspended for the period during which Force Majeures event lasts. The cost and loss sustained by the either party shall be borne by the respective parties. The term "Force Majeures" as employed herein shall mean acts of God, earthquake, war (declared or undeclared), revolts, riots, fires, floods, rebellions, explosions, hurricane, sabotage, civil commotions and acts and regulations of respective Government of the two parties, namely the EMPLOYER and the CONTRACTOR. Upon the occurrence of such cause(s) and upon its termination, the party alleging that it has been rendered unable as aforesaid thereby, shall notify the other party in writing immediately but not later than 72 (Seventy-two) hours of the alleged beginning and ending thereof giving full particulars and satisfactory evidence in support of its claim. Time for performance of the relative obligation suspended by the Force Majeures shall then stand extended by the period for which such cause lasts. If deliveries of bought out items and/or works to be executed by the CONTRACTOR are suspended by Force Majeure conditions lasting for more than 2 (two) months the EMPLOYER shall have the option to terminate the CONTRACT or re-negotiate the contract provisions.

26.2 OUTBREAK OF WAR

26.2.1 If during the currency of the CONTRACT there shall be an out-break of war whether declared or not, in that part of the World which whether financially or otherwise materially affect the execution of the WORK the CONTRACTOR shall unless and until the CONTRACT is terminated under the provisions in this clause continue to use his best endeavour to complete the execution of the WORK, provided always that the EMPLOYER shall be entitled, at any time after such out-break of war to terminate or re-negotiate the CONTRACT by giving notice in writing to the CONTRACTOR and upon such notice being given the CONTRACT shall, save as to the rights of the parties under this clause and to the operation of the clauses entitled settlement of Disputes and Arbitration hereof, be terminated but without prejudice to the right of either party in respect of any antecedent breach thereof.

26.2.2 If the CONTRACT shall be terminated under the provisions of the above clause, the CONTRACTOR shall with all reasonable diligence remove from the SITE all the CONTRACTOR's equipment and shall give similar facilities to his SUB-CONTRACTORS to do so.

27 Price reduction schedule:

27.1 Time is the essence of the CONTRACT. In case the CONTRACTOR fails to complete the WORK within the stipulated period, then, unless such failure is due to Force Majeure as defined in Clause 26 here above or due to

EMPLOYER's defaults, the Total Contract price shall be reduced by ½ % of the total Contract Price per complete week of delay or part thereof subject to a maximum of 5 % of the Total Contract Price, by way of reduction in price for delay and not as penalty. The said amount will be recovered from amount due to the Contractor/ Contractor's Contract Performance Security payable on demand. The decision of the ENGINEER-IN-CHARGE in regard to applicability of Price Reduction Schedule shall be final and binding on the CONTRACTOR.

27.2 All sums payable under this clause is the reduction in price due to delay in completion period at the above agreed rate.

27.3 Bonus for Early Completion (*)

BONUS FOR EARLY COMPLETION If the Contractor achieves completion of Works in all respect prior to the time schedule stipulated in the SCC, the Employer shall pay to the Contractor the relevant sum, if mentioned specifically in SCC, as bonus for early completion. The bonus for early completion, if provided specifically in SCC, shall be payable to the maximum ceiling of 2 ½ % of the total contract price.

(*) Partial earlier completion may not always produce net benefits to the Employer, for example where utilization of the completed Works requires (a) the fulfillment of all parts of the Contract (e.g. the training of personnel); or (b) the completion of all Sections (e.g. in pipeline laying, where early completion of the laying of pipeline would not be useful if the compressor is still under installation); or (c) certain seasonal effects to take place (e.g. onset of the rainy season, for impounding a reservoir); or (d) other circumstances. Also a more rapid drawdown of budgeted funds may be required. All such factors should be considered prior to the inclusion of a bonus clause in the Contract.

28 Rights of the employer to forfeit contract performance security:

28.1 Whenever any claim against the CONTRACTOR for the payment of a sum of money arises out or under the CONTRACT, the EMPLOYER shall be entitled to recover such sum by appropriating in part or whole the Contract Performance Security of the CONTRACTOR. In the event of the security being insufficient or if no security has been taken from the CONTRACTOR, then the balance or the total sum recoverable, as the case may be shall be deducted from any sum then due or which at any time thereafter may become due to the CONTRACTOR. The CONTRACTOR shall pay to the EMPLOYER on demand any balance remaining due.

29 Failure by the contractor to comply with the provisions of the contract:

29.1 If the CONTRACTOR refuses or fails to execute the WORK or any separate part thereof with such diligence as will ensure its completion within the time specified in the CONTRACT or extension thereof or fails to perform any of his obligation under the CONTRACT or in any manner commits a breach of any of the provisions of the CONTRACT it shall be open to the EMPLOYER at its option by written notice to the CONTRACTOR:

- a) TO DETERMINE THE CONTRACT in which event the CONTRACT shall stand terminated and shall cease to be in force and effect on and from the date appointed by the EMPLOYER on that behalf, whereupon the CONTRACTOR shall stop forthwith any of the CONTRACTOR's work then in progress, except such WORK as the EMPLOYER may, in writing, require to be done to safeguard any property or WORK, or installations from damage, and the EMPLOYER, for its part, may take over the work remaining unfinished by the CONTRACTOR and complete the same through a fresh contractor or by other means, at the risk and cost of the CONTRACTOR, and any of his sureties if any, shall be liable to the EMPLOYER for any excess cost occasioned by such work having to be so taken over and completed by the EMPLOYER over and above the cost at the rates specified in the schedule of quantities and rate/prices.
- b) WITHOUT DETERMINING THE CONTRACT to take over the work of the CONTRACTOR or any part thereof and complete the same through a fresh contractor or by other means at the risk and cost of the CONTRACTOR. The CONTRACTOR and any of his sureties are liable to the EMPLOYER for any excess cost over and above the cost at the rates specified in the Schedule of Quantities/ rates, occasioned by such works having been taken over and completed by the EMPLOYER.

29.2 In such events of Clause 29.1(a) or (b) above.

- a) The whole or part of the Contract Performance Security furnished by the CONTRACTOR is liable to be forfeited without prejudice to the right of the EMPLOYER to recover from the CONTRACTOR the excess cost referred to in the sub-clause aforesaid, the EMPLOYER shall also have the right of taking possession and utilising in completing the works or any part thereof, such as materials equipment and plants available at work site belonging to the CONTRACTOR as may be necessary and the CONTRACTOR shall not be entitled for any compensation for use or damage to such materials, equipment and plant.
- b) The amount that may have become due to the CONTRACTOR on account of work already executed by him shall not be payable to him until after the expiry of Six (6) calendar months reckoned from the date of termination of CONTRACT or from the taking over of the WORK or part thereof by the EMPLOYER as the case may be, during which period the responsibility for faulty materials or workmanship in respect of such work shall, under the CONTRACT, rest exclusively with the CONTRACTOR. This amount shall be subject to deduction of any amounts due from the CONTRACT to the EMPLOYER under the terms of the CONTRACT authorised or required to be reserved or retained by the EMPLOYER.

29.3 Before determining the CONTRACT as per Clause 29.1(a) or (b) provided in the judgement of the EMPLOYER, the default or defaults committed by the CONTRACTOR is/are curable and can be cured by the CONTRACTOR if an opportunity given to him, then the EMPLOYER may issue Notice in writing calling the CONTRACTOR to cure the default within such time specified in the Notice.

29.4 The EMPLOYER shall also have the right to proceed or take action as per 29.1(a) or (b) above, in the event that the CONTRACTOR becomes bankrupt, insolvent, compounds with his creditors, assigns the CONTRACT in favour

of his creditors or any other person or persons, or being a company or a corporation goes into voluntary liquidation, provided that in the said events it shall not be necessary for the EMPLOYER to give any prior notice to the CONTRACTOR.

29.5 Termination of the CONTRACT as provided for in sub- clause 29.1(a) above shall not prejudice or affect their rights of the EMPLOYER which may have accrued up to the date of such termination.

30 Contractor remains liable to pay compensation if

30.1 In any case in which any of the powers conferred upon the EMPLOYER BY CLAUSE 29.0 thereof shall have become **action not taken under clause 29:** exercisable and the same had not been exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any further case of default by the CONTRACTOR for which by any clause or clauses hereof he is declared liable to pay compensation amounting to the whole of his Contract Performance Security, and the liability of the CONTRACTOR for past and future compensation shall remain unaffected. In the event of the EMPLOYER putting in force the power under above sub-clause (a), (b) or (c) vested in him under the preceding clause he may, if he so desired, take possession of all or any tools, and plants, materials and stores in or upon the works or the site thereof belonging to the CONTRACTOR or procured by him and intended to be used for the execution of the WORK or any part thereof paying or allowing for the same in account at the CONTRACT rates or in case of these not being applicable at current market rates to be certified by the ENGINEER-IN-CHARGE whose certificate thereof shall be final, otherwise the ENGINEER-IN-CHARGE may give notice in writing to the CONTRACTOR or his clerk of the works, foreman or other authorised agent, requiring him to remove such tools, plant, materials or stores from the premises (within a time to be specified in such notice), and in the event of the CONTRACTOR failing to comply with any such requisition, the ENGINEER-IN-CHARGE may remove them at the CONTRACTOR's expense or sell them by auction or private sale on account of the CONTRACTOR and at his risk in all respects without any further notice as to the date, time or place of sale and the certificate of the ENGINEER-IN-CHARGE as to the expenses of any such removal and the amount of the proceeds and expenses of any such sale shall be final and conclusive against the CONTRACTOR.

31 Change in constitution:

31.1 Where the CONTRACTOR is a partnership firm, the prior approval of the EMPLOYER shall be obtained in writing, before any change is made in the constitution of the firm. Where the CONTRACTOR is an individual or a Hindu undivided family business concern, such approval as aforesaid shall, likewise be obtained before such CONTRACTOR enters into any agreement with other parties, where under, the reconstituted firm would have the right to carry out the work hereby undertaken by the CONTRACTOR. In either case if prior approval as aforesaid is not obtained, the CONTRACT shall be deemed to have been allotted in contravention of clause 37 hereof and the same action may be taken and the same consequence shall ensue as provided in the said clause.

32 Termination of contract

32.1 TERMINATION OF CONTRACT FOR DEATH: If the CONTRACTOR is an individual or a proprietary concern and the individual or the proprietor dies or if the CONTRACTOR is a partnership concern and one of the partner dies then unless, the EMPLOYER is satisfied that the legal representative of the individual or the proprietary concern or the surviving partners are capable of carrying out and completing CONTRACT, he (the EMPLOYER) is entitled to cancel the CONTRACT for the uncompleted part without being in any way liable for any compensation payment to the estate of the deceased CONTRACTOR and/or to the surviving partners of the CONTRACTOR'S firm on account of the cancellation of CONTRACT. The decision of the EMPLOYER in such assessment shall be final and binding on the parties. In the event of such cancellation, the EMPLOYER shall not hold the estate of the deceased CONTRACTOR and/or the surviving partners of the CONTRACTOR'S firm liable for any damages for non-completion of CONTRACT.

32.2 TERMINATION OF CONTRACT IN CASE OF LIQUIDATION / BANKRUPTCY ETC. If the Contractor shall dissolve or become bankrupt or insolvent or cause or suffer any receiver to be appointed of his business or any assets thereof compound with his Creditors, or being a corporation commence to be wound up, not being a member's voluntary winding up for the purpose of amalgamation or reconstruction, or carry on its business under a Receiver for the benefits of its Creditors any of them, EMPLOYER shall be at liberty :- To terminate the contract forthwith upon coming to know of the happening of any such event as aforesaid by notice in writing to the Contractor or to give the Receiver or liquidator or other person, the option of carrying out the contract subject to his providing a guarantee upto an amount to be agreed upon by EMPLOYER for due and faithful performance of the contract.

32.3 TERMINATION OF CONTRACT FOR NON-PERFORMANCE AND SUBSEQUENTLY PUTTING THE CONTRACTOR ON HOLIDAY: In

case of termination of CONTRACT herein set forth (under clause 29.0) except under conditions of Force Majeure and termination after expiry of contract, the CONTRACTOR shall be put under holiday [i.e. neither any enquiry will be issued to the party by BCPL. against any type of tender nor their offer will be considered by BCPL against any ongoing tender (s) where contract between GAIL and that particular CONTRACTOR (as a bidder) has not been finalized] for three years from the date of termination by BCPL to such CONTRACTOR.

33 Members of the employer not individually liable :

33.1 No Director, or official or employee of the EMPLOYER/ CONSULTANT shall in any way be personally bound or liable for the acts or obligations of the EMPLOYER under the CONTRACT or answerable for any default or omission in the observance or performance of any of the acts, matters or things which are herein contained.

34 Employer not bound by personal representations:

34.1 The CONTRACTOR shall not be entitled to any increase on the scheduled rates or any other right or claim whatsoever by reason of any representation, explanation statement or alleged representation, promise or guarantees given or alleged to have been given to him by any person.

35 Contractor's office at site:

35.1 The CONTRACTOR shall provide and maintain an office at the site for the accommodation of his agent and staff and such office shall be open at all reasonable hours to receive instructions, notice or other communications. The CONTRACTOR at all time shall maintain a site instruction book and compliance of these shall be communicated to the ENGINEER-IN CHARGE from time to time and the whole document to be preserved and handed over after completion of works.

36 Contractor's subordinate staff and their conduct

36.1 The CONTRACTOR, on or after award of the WORK shall name and depute a qualified engineer having sufficient experience in carrying out work of similar nature, to whom the equipments, materials, if any, shall be issued and instructions for works given. The CONTRACTOR shall also provide to the satisfaction of the ENGINEER-IN-CHARGE sufficient and qualified staff to superintend the execution of the WORK, competent sub-agents, foremen and leading hands including those specially qualified by previous experience to supervise the types of works comprised in the CONTRACT in such manner as will ensure work of the best quality, expeditious working. Whenever in the opinion of the ENGINEER-IN-CHARGE additional properly qualified supervisory staff is considered necessary, they shall be employed by the CONTRACTOR without additional charge on accounts thereof. The CONTRACTOR shall ensure to the satisfaction of the ENGINEER-IN-CHARGE that SUB-CONTRACTORS, if any, shall provide competent and efficient supervision, over the work entrusted to them.

36.2 If and whenever any of the CONTRACTOR's or SUB- CONTRACTOR'S agents, sub-agents, assistants, foremen, or other employees shall in the opinion of ENGINEER-IN-CHARGE be guilty of any misconduct or be incompetent or insufficiently qualified or negligent in the performance of their duties of that in the opinion of the EMPLOYER or the ENGINEER-IN-CHARGE, it is undesirable for administrative or any other reason for such person or persons to be employed in the works, the CONTRACTOR, is so directed by the ENGINEER-IN-CHARGE, shall at once remove such person or persons from employment thereon. Any person or persons so removed from the works shall not again be employed in connection with the WORKS without the written permission of the ENGINEER-IN-CHARGE. Any person so removed from the WORK shall be immediately re-placed at the expense of the CONTRACTOR by a qualified and competent substitute. Should the CONTRACTOR be requested to repatriate any person removed from the works he shall do so and shall bear all costs in connection here with.

36.3 The CONTRACTOR shall be responsible for the proper behaviour of all the staff, foremen, workmen, and others, and shall exercise a proper degree of control over them and in particular and without prejudice to the said generality, the CONTRACTOR shall be bound to prohibit and prevent any employees from trespassing or acting in any way detrimental or prejudicial to the interest of the community or of the properties or occupiers of land and properties in the neighborhood and in the event of such employee so trespassing, the CONTRACTOR shall be responsible therefore and relieve the EMPLOYER of all consequent claims or actions for damages or injury or any other grounds whatsoever. The decision of the ENGINEER-IN-CHARGE upon any matter arising under this clause shall be final. The CONTRACTOR shall be liable for any liability to EMPLOYER on account of deployment of CONTRACTOR's staff etc. or incidental or arising out of the execution of CONTRACT. The CONTRACTOR shall be liable for all acts or omissions on the part of his staff, Foremen and Workmen and others in his employment, including misfeasance or negligence of whatever kind in the course of their work or during their employment, which are connected directly or indirectly with the CONTRACT.

36.4 If and when required by the EMPLOYER and CONTRACTOR's personnel entering upon the EMPLOYER's premises shall be properly identified by badges of a type acceptable to the EMPLOYER which must be worn at all times on EMPLOYER's premises. CONTRACTOR may be required to obtain daily entry passes for his staff/employees from EMPLOYER to work within operating areas. These being safety requirements, no relaxations on this account shall be given to CONTRACTOR.

37 Sub-letting of works:

37.1 No part of the CONTRACT nor any share or interest therein shall in any manner or degree be transferred, assigned or sublet by the CONTRACTOR directly or indirectly to any person, firm or corporation whatsoever without the consent in writing, of the ENGINEER/EMPLOYER except as provided for in the succeeding sub-clause.

- i) SUB-CONTRACTS FOR TEMPORARY WORKS ETC.: The EMPLOYER may give written consent to Sub- contract for the execution of any part of the WORK at the site, being entered in to by CONTRACTOR provided each individual Sub- contract is submitted to the ENGINEER-IN-CHARGE before being entered into and is approved by him.
- ii) LIST OF SUB-CONTRACTORS TO BE SUPPLIED: At the commencement of every month the CONTRACTOR shall furnish to the ENGINEER-IN-CHARGE list of all SUB-CONTRACTORS or other persons or firms engaged by the CONTRACTOR and working at the SITE during the previous month with particulars of the general nature of the Subcontract or works done by them.

- iii) **CONTRACTOR'S LIABILITY NOT LIMITED BY SUB- CONTRACTORS:** Notwithstanding any sub-letting with such approval as aforesaid and notwithstanding that the ENGINEER-IN-CHARGE shall have received copies of any Subcontracts, the contractor shall be and shall remain solely responsible for the quality, proper and expeditious execution of the Contract in all respects as if such sub-letting or Subcontracting had not taken place, and as if such work had been done directly by the CONTRACTOR. The CONTRACTOR shall bear all responsibility for any act or omission on the part of sub-contractors in regard to work to be performed under the CONTRACT.
- iv) **EMPLOYER MAY TERMINATE SUB-CONTRACTS:** If any SUB-CONTRACTOR engaged upon the works at the site executes any works which in the opinion of the ENGINEER-IN-CHARGE is not in accordance with the CONTRACT documents, the EMPLOYER may by written notice to the CONTRACTOR request him to terminate such subcontract and the CONTRACTOR upon the receipt of such notice shall terminate such Subcontract and dismiss the SUB-CONTRACTOR(S) and the latter shall forthwith leave the works, failing which the EMPLOYER shall have the right to remove such SUB- CONTRACTOR(S) from the site.
- v) **NO REMEDY FOR ACTION TAKEN UNDER THIS CLAUSE:** No action taken by the EMPLOYER under the clause shall relieve the CONTRACTOR of any of his liabilities under the CONTRACT or give rise to any right or compensation, extension of time or otherwise failing which the EMPLOYER shall have the right to remove such SUB-CONTRACTOR(S) from the site.

38 Power of entry:

38.1 If the CONTRACTOR shall not commence the WORK in the manner previously described in the CONTRACT documents or if he shall at any time in the opinion of the ENGINEER-IN-CHARGE.

- i) fail to carry out the WORK in conformity with the CONTRACT documents, or
- ii) fail to carry out the WORK in accordance with the Time Schedule, or
- iii) substantially suspend work or the WORK for a period of fourteen days without authority from the ENGINEER IN-CHARGE, or
- iv) fail to carry out and execute the WORK to the satisfaction of the ENGINEER-IN-CHARGE, or
- v) fail to supply sufficient or suitable construction plant, temporary works, labour, materials or things, or vi) Commit, suffer, or permit any other breach of any of the provisions of the CONTRACT on his part to be performed or observed or persist in any of the above mentioned breaches of the CONTRACT for fourteen days, after notice in writing shall have been given to the CONTRACTOR by the ENGINEER-IN-CHARGE requiring such breach to be remedied, or
- vi) if the CONTRACTOR shall abandon the WORK , or
- vii) If the CONTRACTOR during the continuance of the CONTRACT shall become bankrupt, make any arrangement or composition with his creditors, or permit any execution to be levied or go into liquidation whether compulsory or voluntary not being merely a voluntary liquidation for the purpose of amalgamation or reconstruction **then** in any such case, the EMPLOYER shall have the power to enter upon the WORK and take possession thereof and of the materials, temporary WORK, construction plant, and stock thereon, and to revoke the CONTRACTOR's license to use the same, and to complete the WORK by his agents, other CONTRACTORS or workmen or to relate the same upon any terms and to such other person, firm or corporation as the EMPLOYER in his absolute discretion may think proper to employ and for the purpose aforesaid to use or authorise the use of any materials, temporary work, CONSTRUCTION PLANT, and stock as aforesaid, without making payment or allowance to the CONTRACTOR for the said materials other than such as may be certified in writing by the ENGINEER-IN-CHARGE to be reasonable, and without making any payment or allowance to the CONTRACTOR for the use of the temporary said works, construction plant and stock or being liable for any loss or damage thereto, and if the EMPLOYER shall by reason of his taking possession of the WORK or of the WORK being completed by other CONTRACTOR (due account being taken of any such extra work or works which may or be omitted) then the amount of such excess as certified by the ENGINEER-IN- CHARGE shall be deducted from any money which may be due for work done by the CONTRACTOR under the CONTRACT and not paid for. Any deficiency shall forthwith be made good and paid to the EMPLOYER by the CONTRACTOR and the EMPLOYER shall have power to sell in such manner and for such price as he may think fit all or any of the construction plant, materials etc. constructed by or belonging to and to recoup and retain the said deficiency or any part thereof out of proceeds of the sale.

39 Contractor's responsibility with the mechanical, electrical, intercommunication system, air conditioning contractors and other agencies:

39.1 Without repugnance of any other condition, it shall be the responsibility of the CONTRACTOR executing the work of civil construction, to work in close cooperation and coordinate the WORK with the Mechanical, Electrical, Air-conditioning and Intercommunication Contractor's and other agencies or their authorised representatives, in providing the necessary grooves, recesses, cuts and opening etc., in wall, slabs beams and columns etc. and making good the same to the desired finish as per specification, for the placement of electrical, intercommunication cables, conduits, air-conditioning inlets and outlets grills and other equipments etc. where required. For the above said requirements in the false ceiling and other partitions, the CONTRACTOR before starting-up the work shall in consultation with the Electrical, Mechanical, Intercommunication, Air-conditioning contractor and other agencies prepare and put-up a joint scheme, showing the necessary openings, grooves, recesses, cuts, the methods of fixing required for the WORK of the aforesaid, and the finishes therein, to the ENGINEER-IN-CHARGE and get the approval. The CONTRACTOR before finally submitting the scheme to the ENGINEER-IN-CHARGE, shall have the written agreement of the other agencies. The ENGINEER- IN-CHARGE,

before communicating his approval to the scheme, with any required modification, shall get the final agreement of all the agencies, which shall be binding. No claim shall be entertained on account of the above. The CONTRACTOR shall confirm in all respects with provision of any statutory regulations, ordinances or byelaws of any local or duly constituted authorities or public bodies which may be applicable from time to time to the WORK or any temporary works. The CONTRACTOR shall keep the EMPLOYER indemnified against all penalties and liabilities of every kind, arising out of non-adherence to such stains, ordinances, laws, rules, regulations, etc.

40 Other agencies at site:

- 40.1 The CONTRACTOR shall have to execute the WORK in such place and conditions where other agencies will also be engaged for other works such as site grading, filling, and levelling, electrical and mechanical engineering works, etc. No claim shall be entertained due to WORK being executed in the above circumstances.

41 Notice:

- 41.1 TO THE CONTRACTOR: Any notice hereunder may be served on the CONTRACTOR or his duly authorised representative at the job site or may be served by registered mail direct to the address furnished by the CONTRACTOR. Proof of issue of any such notice could be conclusive of the CONTRACTOR having been duly informed of all contents therein.
- 41.2 TO THE EMPLOYER: Any notice to be given to the EMPLOYER under the terms of the CONTRACTOR shall be served by sending the same by Registered mail to or delivering the same at the respective site offices of M/S. GAIL (INDIA) LTD. addressed to the HEAD/SITE-IN-CHARGE.

42 Right of various interests:

- 42.1 The EMPLOYER reserves the right to distribute the work between more than one agency(ies). The CONTRACTOR shall cooperate and afford other agency(ies) reasonable opportunity for access to the WORK for the carriage and storage of materials and execution of their works.
- 42.2 Wherever the work being done by any department of the EMPLOYER or by other agency(ies) employed by the EMPLOYER is contingent upon WORK covered by this CONTRACT, the respective rights of the various interests involved shall be determined by the ENGINEER-IN-CHARGE to secure the completion of the various portions of the work in general harmony.

43 Patents and royalties:

- 43.1 The CONTRACTOR, if licensed under any patent covering equipment, machinery, materials or compositions of matter to be used or supplied or methods and process to be practised or employed in the performance of this CONTRACT, agrees to pay all royalties and licence fees which may be due with respect thereto. If any equipment, machinery, materials, composition of matters, be used or supplied or methods and processes to be practised or employed in the performance of this CONTRACT, is covered by a patent under which the CONTRACTOR is not licensed then the CONTRACTOR before supplying or using the equipment, machinery materials, composition method or processes shall obtain such licences and pay such royalties and licence fees as may be necessary for performance of this CONTRACT. In the event the CONTRACTOR fails to pay any such royalty or obtain any such licence, any suit for infringement of such patents which is brought against the CONTRACTOR or the EMPLOYER as a result such failure will be defended by the CONTRACTOR at his own expense and the CONTRACTOR will pay any damages and costs awarded in such suit. The CONTRACTOR shall promptly notify the EMPLOYER if the CONTRACTOR has acquired the knowledge of any plant under which a suit for infringement could be reasonably brought because of the use by the EMPLOYER of any equipment, machinery, materials, process, methods to be supplied hereunder. The CONTRACTOR agrees to and does hereby grant to EMPLOYER, together with the right to extend the same to any of the subsidiaries of the EMPLOYER as irrevocable, royalty free licence to use in any country, any invention made by the CONTRACTOR or his employee in or as result of the performance of the WORK under the CONTRACT.
- 43.2 All charges on account of royalty, tollage, rent, octroi terminal or sales tax and/or other duties or any other levy on materials obtained for the work or temporary work or part thereof (excluding materials provided by the EMPLOYER) shall be borne by the CONTRACTOR.
- 43.3 The CONTRACTOR shall not sell or otherwise dispose of or remove except for the purpose of this CONTRACT, the sand, stone, clay, ballast, earth, rock or other substances, or materials obtained from any excavation made for the purpose of the WORK or any building or produce upon the site at the time of delivery of the possession thereof, but all such substances, materials, buildings and produce shall be the property of the EMPLOYER provided that the CONTRACTOR may with the permission of the ENGINEER-IN-CHARGE, use the same for the purpose of the work by payment of cost of the same at such a rate as may be determined by the ENGINEER-IN-CHARGE.
- 43.4 The EMPLOYER shall indemnify and save harmless the CONTRACTOR from any loss on account of claims against CONTRACTOR for the contributory infringement of patent rights arising out and based upon the claim that the use of the EMPLOYER of the process included in the design prepared by the EMPLOYER and used in the operation of the plant infringes on any patent right. With respect to any subcontract entered into by CONTRACTOR pursuant to the provisions of the relevant clause hereof, the CONTRACTOR shall obtain from the SUB-CONTRACTOR an undertaking to provide the EMPLOYER with the same patent protection that CONTRACTOR is required to provide under the provisions of this clause.

44 Liens:

- 44.1 If, at any time there should be evidence or any lien or claim for which the EMPLOYER might have become liable and which is chargeable to the CONTRACTOR, the EMPLOYER shall have the right to retain out of any payment then due or thereafter to become due an amount sufficient to completely indemnify the EMPLOYER against such lien or claim and if such lien or claim be valid, the EMPLOYER may pay and discharge the same and deduct the amount so paid from any money which may be or may become due and payable to the CONTRACTOR. If any lien or claim remain unsettled after all payments are made, the CONTRACTOR shall refund or pay to the EMPLOYER all money that the latter may be compelled to pay in discharging such lien or claim including all costs and reasonable expenses. EMPLOYER reserves the right to do the same.
- 44.2 The EMPLOYER shall have lien on all materials, equipments including those brought by the CONTRACTOR for the purpose of erection, testing and commissioning of the WORK.
- 44.3 The final payment shall not become due until the CONTRACTOR delivers to the ENGINEER-IN-CHARGE a complete release or waiver of all liens arising or which may arise out of his agreement or receipt in full or certification by the CONTRACTOR in a form approved by ENGINEER-IN-CHARGE that all invoices for labour, materials, services have been paid in lien thereof and if required by the ENGINEER-IN-CHARGE in any case an affidavit that so far as the CONTRACTOR has knowledge or information the releases and receipts include all the labour and material for which a lien could be filled.
- 44.4 CONTRACTOR will indemnify and hold the EMPLOYER harmless, for a period of two years after the issue of FINAL CERTIFICATE, from all liens and other encumbrances against the EMPLOYER on account of debts or claims alleged to be due from the CONTRACTOR or his SUB-CONTRACTOR to any person including SUB- CONTRACTOR and on behalf of EMPLOYER will defend at his own expense, any claim or litigation brought against the EMPLOYER or the CONTRACTOR in connection therewith. CONTRACTOR shall defend or contest at his own expense any fresh claim or litigation by any person including his SUB-CONTRACTOR, till its satisfactory settlement even after the expiry of two years from the date of issue of FINAL CERTIFICATE.

45 Delays by employer or his authorised agents:

- 45.1 In case the CONTRACTOR's performance is delayed due to any act or omission on the part of the EMPLOYER or his authorized agents, then the CONTRACTOR shall be given due extension of time for the completion of the WORK, to the extent such omission on the part of the EMPLOYER has caused delay in the CONTRACTOR's performance of his WORK.
- 45.2 No adjustment in CONTRACT PRICE shall be allowed for reasons of such delays and extensions granted except as provided in TENDER DOCUMENT, where the EMPLOYER reserves the right to seek indulgence of CONTRACTOR to maintain the agreed Time Schedule of Completion. In such an event the CONTRACTOR shall be obliged for working by CONTRACTOR's personnel for additional time beyond stipulated working hours as also Sundays and Holidays and achieve the completion date/interim targets.

46 Payment if the contract is terminated:

- 46.1 If the CONTRACT shall be terminated as per Tender pursuant to Clause no. 29 of GCC, the CONTRACTOR shall be paid by the EMPLOYER in so far as such amounts or items shall not have already been covered by payments of amounts made to the CONTRACTOR for the WORK executed and accepted by ENGINEER-IN-CHARGE prior to the date of termination at the rates and prices provided for in the CONTRACT and in addition to the following:
- i) The amount payable in respect of any preliminary items, so far as the Work or service comprised therein has been carried out or performed and an appropriate portion as certified by ENGINEER-IN- CHARGE of any such items or service comprised in which has been partially carried out or performed.
 - ii) Any other expenses which the CONTRACTOR has expended for performing the WORK under the CONTRACT subject to being duly recommended by ENGINEER-IN-CHARGE and approved by EMPLOYER for payment, based on documentary evidence of his having incurred such expenses.
- 46.2 The CONTRACTOR will be further required to transfer the title and provide the following in the manner and as directed by the EMPLOYER.
- a) Any and all completed works.
 - b) Such partially completed WORK including drawings, informations and CONTRACT rights as the CONTRACTOR has specially performed, produced or acquired for the performance of the CONTRACTOR.

47 No waiver of rights:

- 47.1 Neither the inspection by the EMPLOYER or any of their officials, employees, or agents nor any order by the EMPLOYER for payment of money or any payment for or acceptance of the whole or any part of the Work by the EMPLOYER nor any extension of time, nor any possession taken by EMPLOYER shall operate as a waiver of any provision of the CONTRACT, or of any power herein reserved to the EMPLOYER, or any right to damages herein provided, nor shall any waiver of any breach in the CONTRACT be held to be a waiver of any other subsequent breach.

48 Certificate not to affect right of employer and liability of contractor:

- 48.1 No interim payment certificate(s) issued by the Engineer-in- Charge of the EMPLOYER, nor any sum paid on account by the EMPLOYER, nor any extension of time for execution of the work granted by EMPLOYER shall affect or prejudice the rights of the Employer against the CONTRACTOR or relieve the CONTRACTOR of his obligations for the due performance of the CONTRACT, or be interpreted as approval of the WORK done or of the equipment supplied and no certificate shall create liability for the EMPLOYER to pay for alterations, amendments, variations or additional works not ordered, in writing, by EMPLOYER or discharge the liability of the CONTRACTOR for the

payment of damages whether due, ascertained, or certified or not or any sum against the payment of which he is bound to indemnify the EMPLOYER.

49 Language and measures:

49.1 All documents pertaining to the CONTRACT including Specifications, Schedules, Notices, Correspondence, operating and maintenance Instructions, DRAWINGS, or any other writing shall be written in English language. The Metric System of measurement shall be used in the CONTRACT unless otherwise specified.

50 Transfer of title:

50.1 The title of Ownership of supplies furnished by the CONTRACTOR shall not pass on to the EMPLOYER for all Supplies till the same are finally accepted by the EMPLOYER after the successful completion of PERFORMANCE TEST and GUARANTEE TEST and issue of FINAL CERTIFICATE.

50.2 However, the EMPLOYER shall have the lien on all such works performed as soon as any advance or progressive payment is made by the EMPLOYER to the CONTRACTOR and the CONTRACTOR shall not subject these works for use other than those intended under this CONTRACT.

51 Release of information:

51.1 The CONTRACTOR shall not communicate or use in advertising, publicity, sales releases or in any other medium, photographs, or other reproduction of the Work under this CONTRACT or description of the site dimensions, quantity, quality or other information, concerning the Work unless prior written permission has been obtained from the EMPLOYER.

52 Brand names:

52.1 The specific reference in the SPECIFICATIONS and documents to any material by trade name, make or catalogue number shall be construed as establishing standard or quality and performance and not as limited competition. However, TENDERER may offer other similar equipments provided it meets the specified standard design and performance requirements.

53 Completion of contract:

53.1 Unless otherwise terminated under the provisions of any other relevant clause, this CONTRACT shall be deemed to have been completed at the expiration of the PERIOD OF LIABILITY as provided for under the CONTRACT.

54 Spares:

54.1 The CONTRACTOR shall furnish to the EMPLOYER all spares required for COMMISSIONING of the plants, recommendatory and/or mandatory spares, which are required essential by the manufacturer/supplier. The same shall be delivered at SITE, 3(Three) months before COMMISSIONING. Also the CONTRACTOR should furnish the manufacturing drawings for fast wearing spares.

54.2 The CONTRACTOR guarantees the EMPLOYER that before the manufacturers of the equipments, plants and machineries go out of production of spare parts for the equipment furnished and erected by him, he shall give at least twelve (12) months' advance notice to the EMPLOYER, so that the latter may order his requirement of spares in one lot, if he so desires.

SECTION-V PERFORMANCE OF WORK

55 Execution of work:

55.1 All the Works shall be executed in strict conformity with the provisions of the CONTRACT Documents and with such explanatory detailed drawings, specification and instructions as may be furnished from time to time to the CONTRACTOR by the ENGINEER-IN-CHARGE whether mentioned in the CONTRACT or not. The CONTRACTOR shall be responsible for ensuring that works throughout are executed in the most substantial, proper and workmanlike manner with the quality of material and workmanship in strict accordance with the SPECIFICATIONS and to the entire satisfaction of the ENGINEER-IN-CHARGE. The CONTRACTOR shall provide all necessary materials equipment labour etc. for execution and maintenance of WORK till completion unless otherwise mentioned in the CONTRACT.

56 Co-ordination and inspection of work:

56.1 The coordination and inspection of the day-to-day work under the CONTRACT shall be the responsibility of the ENGINEER-IN-CHARGE. The written instruction regarding any particular job will normally be passed by the ENGINEER-IN-CHARGE or his authorised representative. A work order book will be maintained by the CONTRACTOR for each sector in which the aforesaid written instructions will be entered. These will be signed by the CONTRACTOR or his authorised representative by way of acknowledgement within 12 hours.

57 Work in monsoon and dewatering:

57.1 Unless otherwise specified elsewhere in the tender, the execution of the WORK may entail working in the monsoon also. The CONTRACTOR must maintain a minimum labour force as may be required for the job and plan

and execute the construction and erection according to the prescribed schedule. No extra rate will be considered for such work in monsoon.

- 57.2 During monsoon and other period, it shall be the responsibility of the CONTRACTOR to keep the construction work site free from water at his own cost.

58 Work on Sundays and Holidays:

- 58.1 For carrying out Work on Sundays, and Holidays, the CONTRACTOR will approach the ENGINEER-IN-CHARGE or his representative at least two days in advance and obtain permission in writing. The CONTRACTOR shall observe all labour laws and other statutory rules and regulations in force. In case of any violations of such laws, rules and regulations, consequence if any, including the cost thereto shall be exclusively borne by the CONTRACTOR and the EMPLOYER shall have no liability whatsoever on this account.

59 General conditions for construction and erection work:

- 59.1 The working time at the site of work is 48 hours per week. Overtime work is permitted in cases of need and the EMPLOYER will not compensate the same. Shift working at 2 or 3 shifts per day will become necessary and the CONTRACTOR should take this aspect into consideration for formulating his rates for quotation. No extra claims will be entertained by the EMPLOYER on this account. For carrying out work beyond working hours the CONTRACTOR will approach the ENGINEER-IN-CHARGE or his authorized representative and obtain his prior written permission.
- 59.2 The CONTRACTOR must arrange for the placement of workers in such a way that the delayed completion of the WORK or any part thereof for any reason whatsoever will not affect their proper employment. The EMPLOYER will not entertain any claim for idle time payment whatsoever.
- 59.3 The CONTRACTOR shall submit to the EMPLOYER/ENGINEER-IN-CHARGE reports at regular intervals regarding the state and progress of WORK. The details and proforma of the report will mutually be agreed after the award of CONTRACT. The CONTRACTOR shall provide display boards showing progress and labour strengths at worksite, as directed by the ENGINEER-IN-CHARGE.

60 Alterations in specifications, design and extra works:

- 60.1 The WORK covered under this CONTRACT having to be executed by the CONTRACTOR on a lumpsum firm price/item rate quoted by him, the EMPLOYER will not accept any proposals for changes in VALUE OF CONTRACT or extension in time on account of any such changes which may arise to the CONTRACTOR's scope of WORK as a result of detailed Engineering and thereafter during the execution of WORK. The only exception to this will be a case where the EMPLOYER requests in writing to the CONTRACTOR to upgrade the SPECIFICATIONS or the size of any major pieces of equipments, plant or machinery beyond what is normally required to meet the scope of WORK as defined in the CONTRACT DOCUMENT. In such cases, a change order will be initialled by the CONTRACTOR at the appropriate time for the EMPLOYER's prior approval giving the full back-up data for their review and for final settlement of any impact on price within 30 (thirty) days thereafter.
- 60.2 The ENGINEER-IN-CHARGE shall have to make any alterations in, omission from, additions to or substitutions for, the Schedule of Rates, the original specifications, drawings, designs and instructions that may appear to him to be necessary or advisable during the progress of the WORK and the CONTRACTOR shall be bound to carry out the such altered/ extra/ new items of WORK in accordance with any instructions which may be given to him in writing signed by the ENGINEER-IN-CHARGE, and such alterations, omissions, additions or substitutions shall not invalidate the CONTRACT and any altered, additional or substituted work which the CONTRACTOR may be directed to do in the manner above specified as part of the WORK shall be carried out by the CONTRACTOR on the same conditions in all respects on which he agreed to do the main WORK. The time of completion of WORK may be extended for the part of the particular job at the discretion of the ENGINEER-IN-CHARGE, for only such alterations, additions or substitutions of the WORK, as he may consider as just and reasonable. The rates for such additional, altered or substituted WORK under this clause shall be worked out in accordance with the following provisions:-

I.

For Item Rate Contract

- a) If the rates for the additional, altered or substituted WORK are specified in the CONTRACT for the WORK, the CONTRACTOR is bound to carry on the additional, altered or substituted WORK at the same rates as are specified in the CONTRACT.
- b) If the rates for the additional, altered or substituted WORK are not specifically provided in the CONTRACT for the WORK, the rates will be derived from the rates for similar class of WORK as are specified in the CONTRACT for the WORK. The opinion of the ENGINEER-IN-CHARGE, as to whether or not the rates can be reasonably so derived from the items in this CONTRACT will be final and binding on the CONTRACTOR.
- c) If the rates for the altered, additional or substituted WORK cannot be determined in the manner specified in sub-clause(s) and (b) above, then the CONTRACTOR shall, within 7 days of the date of receipt of order to carry out the WORK, inform the ENGINEER-IN-CHARGE of the rates which it is his intention to charge for such class of WORK, supported by analysis of the rate or rates claimed, and the ENGINEER-IN-CHARGE shall determine the rate or rates on the basis of the prevailing market rates, labour cost at schedule of labour rates plus 10% to cover contractor's supervision, overheads and profit and pay the CONTRACTOR accordingly. The opinion of the ENGINEER-IN-CHARGE as to current market

rates of materials and the quantum of labour involved per unit of measurement will be final and binding on the CONTRACTOR.

- d) Where the item of work will be executed through nominated specialist agency as approved by the ENGINEER-IN-CHARGE, then the actual amount paid to such nominated agency supported by documentary evidence and as certified by ENGINEER-IN-CHARGE shall be considered plus 10% (ten percent) to cover all contingencies, overhead, profits to arrive at the rates.
 - e) Provisions contained in the Sub-clause (a) & (d) above shall, however, not apply for the following:-
Where the value of additions of new items together with the value of alterations, additions/deletions or substitutions does not exceed by or is not less than plus/minus ($\pm$)25% of the VALUE OF CONTRACT. The item rates in the Schedule of Rates shall hold good for all such variations between the above mentioned limits, irrespective of any increase/decrease of quantities in the individual items of Schedule of Rates. Where the value of addition of new items together with the value of alterations, additions/deletions or substitutions reduces more than 25% of the contract value but is within the following limits the tenderer shall be paid compensation for decrease in the value of work, as follows:
S.No. Range of Variation Percentage compensation for decrease in the value of work in the respective range. a) Beyond (+) 25% No increase and/or upto & inclusive of decrease shall be (+) 50% applicable for the Schedule of Rates (The rates quoted for this increase shall be valid). b) Beyond (-) 25% upto & For reduction beyond inclusive of (-) 50% 25%contractor shall be compensated by an amount equivalent to 10% of the reduction in value of the contract as awarded. For example if the actual contract value is 70% of awarded value then compensation shall be 10% of (75-70) i.e. 0.5% of awarded contract value.
- II. For Lumpsum Contracts: CONTRACTOR shall, within 7 days of the date of receipt of order to carry out the WORK, inform the ENGINEER-IN- CHARGE of the rates which it is his intention to charge for such class of WORK, supported by analysis of the rate or rates claimed, and the ENGINEER-IN-CHARGE shall determine the rate or rates on the basis of the prevailing market rates, labour cost at schedule of labour rates plus 10% to cover contractor's supervision, overheads and profit and pay the CONTRACTOR accordingly. The opinion of the ENGINEER- IN-CHARGE as to current market rates of materials and the quantum of labour involved per unit of measurement will be final and binding on the CONTRACTOR.

61 Drawings to be supplied by the employer

- 61.1 The drawings attached with tender are only for the general guidance to the CONTRACTOR to enable him to visualize the type of work contemplated and scope of work involved. The CONTRACTOR will be deemed to have studied the DRAWINGS and formed an idea about the WORK involved.
- 61.2 Detailed working drawings on the basis of which actual execution of the WORK is to proceed, will be furnished from time to time during the progress of the work. The CONTRACTOR shall be deemed to have gone through the DRAWINGS supplied to him thoroughly and carefully and in conjunction with all other connected drawings and bring to the notice of the ENGINEER-IN-CHARGE discrepancies, if any, therein before actually carrying out the Work.
- 61.3 Copies of all detailed working drawings relating to the WORK shall be kept at the CONTRACTOR's office on the site and shall be made available to the ENGINEER-IN- CHARGE at any time during the CONTRACT. The drawings and other documents issued by the EMPLOYER shall be returned to the EMPLOYER on completion of the WORK.

62 Drawings to be supplied by the contractor:

- 62.1 The drawings/date which are to be furnished by the CONTRACTOR are enumerated in the special conditions of contract, and shall be furnished within the specified time.
- 62.2 Where approval/review of drawings before manufacture/ construction/fabrication has been specified, it shall be CONTRACTOR's responsibility to have these drawings prepared as per the directions of ENGINEER-IN-CHARGE and got approved before proceeding with manufacture/construction/fabrication as the case may be. Any change that may have become necessary in these drawings during the execution of the work shall have to be carried out by the CONTRACTOR to the satisfaction of ENGINEER-IN-CHARGE at no extra cost. All final drawings shall bear the certification stamp as indicated below duly signed by both the CONTRACTOR and ENGINEER-IN-CHARGE.
"Certified true for _____ (Name of Work) Agreement No. _____
Signed: _____ (CONTRACTOR) (ENGINEER-IN-CHARGE)
- 62.3 The DRAWINGS submitted by the CONTRACTOR shall be reviewed by the ENGINEER-IN-CHARGE as far as practicable within 3 (Three) weeks and shall be modified by the CONTRACTOR, if any modifications and/or corrections are required by the ENGINEER-IN-CHARGE. The CONTRACTOR shall incorporate such modifications and/or corrections and submit the final drawings for approval. Any delays arising out of failure by the CONTRACTOR to rectify the drawing in good time shall not alter the Contract Completion Time.
- 62.4 As built drawings showing all corrections, adjustments etc. shall be furnished by the CONTRACTOR in six copies and one transparent for record purposed to the EMPLOYER.

63 Setting out works:

- 63.1 The ENGINEER-IN-CHARGE shall furnish the CONTRACTOR with only the four corners of the Works site and a level bench mark and the CONTRACTOR shall set out the Works and shall provide an efficient staff for the purpose and shall be solely responsible for the accuracy of such setting out.
- 63.2 The CONTRACTOR shall provide, fix and be responsible for the maintenance of all stakes, templates, level marks, profiles and other similar things and shall take all necessary precautions to prevent their removal or disturbance

and shall be responsible for the consequence of such removal or disturbance should the same take place and for their efficient and timely reinstatement. The CONTRACTOR shall also be responsible for the maintenance of all existing survey marks, boundary marks, distance marks and center line marks, either existing or supplied and fixed by the CONTRACTOR. The work shall be set out to the satisfaction of the ENGINEER-IN-CHARGE. The approval there of joining with the CONTRACTOR by the ENGINEER- IN-CHARGE in setting out the work, shall not relieve the CONTRACTOR of any of his responsibility.

- 63.3 Before beginning the Works, the CONTRACTOR shall at his own cost, provide all necessary reference and level posts, pegs, bamboos, flags, ranging rods, strings and other materials for proper layout of the works in accordance with the schemes for bearing marks acceptable to the ENGINEER-IN-CHARGE. The center, longitudinal or face lines and cross lines shall be marked by means of small masonry pillars. Each pillar shall have distinct mark at the centre to enable theodolite to be set over it. No work shall be started until all these points are checked and approved by the ENGINEER-IN-CHARGE in writing but such approval shall not relieve the CONTRACTOR of any of his responsibilities. The CONTRACTOR shall also provide all labour, material and other facilities, as necessary, for the proper checking of layout and inspection of the points during construction.
- 63.4 Pillars bearing geodetic marks located at the sites of units of WORKS under construction should be protected and fenced by the CONTRACTOR.
- 63.5 On completion of WORK, the CONTRACTOR must submit the geodetic documents according to which the WORK was carried out.

64 Responsibility for level and alignment:

- 64.1 The CONTRACTOR shall be entirely and exclusively responsible for the horizontal and vertical alignment, the levels and correctness of every part of the WORK and shall rectify effectively any errors or imperfections therein, such rectifications shall be carried out by the CONTRACTOR, at his own cost, when instructions are issued to that effect by the ENGINEER- IN-CHARGE.

65 Materials to be supplied by contractor:

- 65.1 The CONTRACTOR shall procure and provide within the VALUE OF CONTRACT the whole of the materials required for the construction including steels, cement and other building materials, tools, tackles, construction plant and equipment for the completion and maintenance of the WORK except the materials which will be issued by the EMPLOYER and shall make his own arrangement for procuring such materials and for the transport thereof. The EMPLOYER may give necessary recommendation to the respective authority if so desired by the CONTRACTOR but assumes no further responsibility of any nature. The EMPLOYER will insist on the procurement of materials which bear ISI stamp and/or which are supplied by reputed suppliers.
- 65.2 The CONTRACTOR shall properly store all materials either issued to him or brought by him to the SITE to prevent damages due to rain, wind, direct exposure to sun, etc. as also from theft, pilferage, etc. for proper and speedy execution of his works. The CONTRACTOR shall maintain sufficient stocks of all materials required by him.
- 65.3 No material shall be despatched from the CONTRACTOR's stores before obtaining the approval in writing of the ENGINEER-IN-CHARGE.

66 Stores supplied by the employer:

- 66.1 If the SPECIFICATION of the WORK provides for the use of any material of special description to be supplied from the EMPLOYER's stores or it is required that the CONTRACTOR shall use certain stores to be provided by the ENGINEER-IN-CHARGE, such materials and stores, and price to be charged there for as hereinafter mentioned being so far as practicable for the convenience of the CONTRACTOR, but not so as in any way to control the meaning or effect of the CONTRACT, the CONTRACTOR shall be bound to purchase and shall be supplied such materials and stores as are from time to time required to be used by him for the purpose of the CONTRACT only. The sums due from the CONTRACTOR for the value of materials supplied by the EMPLOYER will be recovered from the running account bill on the basis of the actual consumption of materials in the works covered and for which the running account bill has been prepared. After the completion of the WORK, however, the CONTRACTOR has to account for the full quantity of materials supplied to him as per relevant clauses in this document.
- 66.2 The value of the stores/materials as may be supplied to the CONTRACTOR by the EMPLOYER will be debited to the CONTRACTOR's account at the rates shown in the schedule of materials and if they are not entered in the schedule, they will be debited at cost price, which for the purpose of the CONTRACT shall include the cost of carriage and all other expenses whatsoever such as normal storage supervision charges which shall have been incurred in obtaining the same at the EMPLOYER's stores. All materials so supplied to the CONTRACTOR shall remain the absolute property of the EMPLOYER and shall not be removed on any account from the SITE of the WORK, and shall be at all times open for inspection to the ENGINEER-IN-CHARGE. Any such materials remaining unused at the time of the completion or termination of the CONTRACT shall be returned to the EMPLOYER's stores or at a place as directed by the ENGINEER-IN-CHARGE in perfectly good condition at CONTRACTOR's cost.

67 Conditions for issue of materials:

- 67.1 Materials specified as to be issued by the EMPLOYER will be supplied to the CONTRACTOR by the EMPLOYER from his stores. It shall be responsibility of the CONTRACTOR to take delivery of the materials and arrange for its

loading, transport and unloading at the SITE of WORK at his own cost. The materials shall be issued between the working hours and as per the rules of the EMPLOYER as framed from time to time.

- 67.2 The CONTRACTOR shall bear all incidental charges for the storage and safe custody of materials at site after these have been issued to him.
- 67.3 Materials specified as to be issued by the EMPLOYER shall be issued in standard sizes as obtained from the manufacturers.
- 67.4 The CONTRACTOR shall construct suitable Godowns at the SITE of WORK for storing the materials safe against damage by rain, dampness, fire, theft etc. He shall also employ necessary watch and ward establishment for the purpose.
- 67.5 It shall be duty of the CONTRACTOR to inspect the materials supplied to him at the time of taking delivery and satisfy himself that they are in good condition. After the materials have been delivered by the EMPLOYER, it shall be the responsibility of the CONTRACTOR to keep them in good condition and if the materials are damaged or lost, at any time, they shall be repaired and/or replaced by him at his own cost according to the instructions of the ENGINEER-IN-CHARGE.
- 67.6 The EMPLOYER shall not be liable for delay in supply or non-supply of any materials which the EMPLOYER has undertaken to supply where such failure or delay is due to natural calamities, act of enemies, transport and procurement difficulties and any circumstances beyond the control of the EMPLOYER. In no case, the CONTRACTOR shall be entitled to claim any compensation or loss suffered by him on this account.
- 67.7 It shall be responsibility of the CONTRACTOR to arrange in time all materials required for the WORK other than those to be supplied by the EMPLOYER. If, however, in the opinion of the ENGINEER-IN-CHARGE the execution of the WORK is likely to be delayed due to the CONTRACTOR's inability to make arrangements for supply of materials which normally he has to arrange for, the ENGINEER-IN-CHARGE shall have the right at his own discretion to issue such materials, if available with the EMPLOYER or procure the materials from the market or as elsewhere and the CONTRACTOR will be bound to take such materials at the rates decided by the ENGINEER-IN-CHARGE. This, however, does not in any way absolve the CONTRACTOR from responsibility of making arrangements for the supply of such materials in part or in full, should such a situation occur nor shall this constitute a reason for the delay in the execution of the WORK.
- 67.8 None of the materials supplied to the CONTRACTOR will be utilised by the CONTRACTOR for manufacturing item which can be obtained as supplied from standard manufacturer in finished form.
- 67.9 The CONTRACTOR shall, if desired by the ENGINEER-IN-CHARGE, be required to execute an Indemnity Bond in the prescribed form for safe custody and accounting of all materials issued by the EMPLOYER.
- 67.10 The CONTRACTOR shall furnish to the ENGINEER-IN-CHARGE sufficiently in advance a statement showing his requirement of the quantities of the materials to be supplied by the EMPLOYER and the time when the same will be required by him for the works, so as to enable the ENGINEER-IN-CHARGE to make necessary arrangements for procurement and supply of the material.
- 67.11 Account of the materials issued by the EMPLOYER shall be maintained by CONTRACTOR indicating the daily receipt, consumption and balance in hand. This account shall be maintained in a manner prescribed by the ENGINEER-IN-CHARGE along with all connected papers viz. requisitions, issues, etc., and shall be always available for inspection in the CONTRACTOR's office at SITE.
- 67.12 The CONTRACTOR should see that only the required quantities of materials are got issued. The CONTRACTOR shall not be entitled to cartage and incidental charges for returning the surplus materials, if any, to the stores wherefrom they were issued or to the place as directed by the ENGINEER-IN-CHARGE.
- 67.13 Materials/Equipment(s) supplied by EMPLOYER shall not be utilised for any purpose(s) than issued for.

68 Material procured with assistance of employer/return of surplus:

- 68.1 Notwithstanding anything contained to the contrary in any or all the clauses of this CONTRACT where any materials for the execution of the CONTRACT are procured with the assistance of the EMPLOYER either by issue from EMPLOYER's stock or purchases made under order or permits or licences issued by Government, the CONTRACTOR shall hold the said materials as trustee for the EMPLOYER and use such materials economically and solely for the purpose of the CONTRACT and not dispose them off without the permission of the EMPLOYER and return, if required by the ENGINEER-IN-CHARGE, shall determine having due regard to the condition of the materials. The price allowed to the CONTRACTOR, however, shall not exceed the amount charged to him excluding the storage charges, if any. The decision of the ENGINEER-IN-CHARGE shall be final and conclusive in such matters. In the event of breach of the aforesaid condition, the CONTRACTOR shall, in terms of the licences or permits and/or criminal breach of trust, be liable to compensate the EMPLOYER at double rate or any higher rate, in the event of those materials at that time having higher rate or not being available in the market, then any other rate to be determined by the ENGINEER-IN-CHARGE and his decision shall be final and conclusive.

69 Materials obtained from dismantling:

- 69.1 If the CONTRACTOR in the course of execution of the WORK is called upon to dismantle any part for reasons other than those stipulated in Clauses 74 and 77 hereunder, the materials obtained in the WORK of dismantling etc., will be considered as the EMPLOYER's property and will be disposed off to the best advantage of the EMPLOYER.

70 Articles of value found:

70.1 All gold, silver and other minerals of any description and all precious stones, coins, treasure relics, antiquities and other similar things which shall be found in, under or upon the SITE, shall be the property of the EMPLOYER and the CONTRACTOR shall duly preserve the same to the satisfaction of the ENGINEER-IN-CHARGE and shall from time to time deliver the same to such person or persons indicated by the EMPLOYER.

71 Discrepancies between instructions:

71.1 Should any discrepancy occur between the various instructions furnished to the CONTRACTOR, his agent or staff or any doubt arises as to the meaning of any such instructions or should there be any misunderstanding between the CONTRACTOR's staff and the ENGINEER-IN-CHARGE's staff, the CONTRACTOR shall refer the matter immediately in writing to the ENGINEER-IN-CHARGE whose decision thereon shall be final and conclusive and no claim for losses alleged to have been caused by such discrepancies between instructions, doubts, or misunderstanding shall in any event be admissible.

72 Action where no specification is issued:

72.1 In case of any class of WORK for which there is no SPECIFICATION supplied by the EMPLOYER as mentioned in the Tender Documents such WORK shall be carried out in accordance with Indian Standard Specifications and if the Indian Standard Specifications do not cover the same, the WORK should be carried out as per standard Engineering Practice subject to the approval of the ENGINEER-IN-CHARGE.

73 Inspection of works:

- 73.1 The ENGINEER-IN-CHARGE will have full power and authority to inspect the WORK at any time wherever in progress either on the SITE or at the CONTRACTOR's premises/workshops wherever situated, premises/workshops of any person, firm or corporation where WORK in connection with the CONTRACT may be in hand or where materials are being or are to be supplied, and the CONTRACTOR shall afford or procure for the ENGINEER-IN-CHARGE every facility and assistance to carry out such inspection. The CONTRACTOR shall, at all time during the usual working hours and at all other time at which reasonable notice of the intention of the ENGINEER-IN-CHARGE or his representative to visit the WORK shall have been given to the CONTRACTOR, either himself be present or receive orders and instructions, or have a responsible agent duly accredited in writing, present for the purpose. Orders given to the CONTRACTOR's agent shall be considered to have the same force as if they had been given to the CONTRACTOR himself. The CONTRACTOR shall give not less than seven days notice in writing to the ENGINEER-IN-CHARGE before covering up or otherwise placing beyond reach of inspection and measurement of any work in order that the same may be inspected and measured. In the event of breach of above the same shall be uncovered at CONTRACTOR's expense for carrying out such measurement or inspection.
- 73.2 No material shall be despatched from the CONTRACTOR's stores before obtaining the approval in writing of the Engineer-in-Charge. The CONTRACTOR is to provide at all time during the progress of the WORK and the maintenance period, proper means of access with ladders, gangways etc. and the necessary attendance to move and adopt as directed for inspection or measurements of the WORK by the ENGINEER-IN-CHARGE.
- 73.3 The CONTRACTOR shall make available to the ENGINEER-IN-CHARGE free of cost all necessary instruments and assistance in checking or setting out of WORK and in the checking of any WORK made by the CONTRACTOR for the purpose of setting out and taking measurements of WORK.

74 Tests for quality of work:

- 74.1 All workmanship shall be of the respective kinds described in the CONTRACT DOCUMENTS and in accordance with the instructions of the ENGINEER-IN-CHARGE and shall be subjected from time to time to such test at CONTRACTOR's cost as the ENGINEER-IN-CHARGE may direct at the place of manufacture or fabrication or on the site or at all or any such places. The CONTRACTOR shall provide assistance, instruments, labour and materials as are normally required for examining, measuring and testing any workmanship as may be selected and required by the ENGINEER-IN-CHARGE.
- 74.2 All the tests that will be necessary in connection with the execution of the WORK as decided by the ENGINEER-IN-CHARGE shall be carried out at the field testing laboratory of the EMPLOYER by paying the charges as decided by the EMPLOYER from time to time. In case of non-availability of testing facility with the EMPLOYER, the required test shall be carried out at the cost of CONTRACTOR at Government or any other testing laboratory as directed by ENGINEER-IN-CHARGE.
- 74.3 If any tests are required to be carried out in conjunction with the WORK or materials or workmanship not supplied by the CONTRACTOR, such tests shall be carried out by the CONTRACTOR as per instructions of ENGINEER-IN-CHARGE and cost of such tests shall be reimbursed by the EMPLOYER.

75 Samples for approval:

75.1 The CONTRACTOR shall furnish to the ENGINEER-IN-CHARGE for approval, when requested or if required by the specifications, adequate samples of all materials and finished to be used in the WORK. Such samples shall be submitted before the WORK is commenced and in ample time to permit tests and examinations thereof. All materials furnished and finishes applied in actual WORK shall be fully equal to the approved samples.

75.2

76 Action and compensation in case of bad work:

76.1 If it shall appear to the ENGINEER-IN-CHARGE that any work has been executed with unsound, imperfect or unskilled workmanship, or with materials of any inferior description, or that any materials or articles provided by the CONTRACTOR for the execution of the WORK are unsound, or of a quality inferior to that contracted for, or otherwise not in accordance with the CONTRACT, the CONTRACTOR shall on demand in writing from the ENGINEER-IN-CHARGE or his authorised representative specifying the WORK, materials or articles complained of notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct the WORK so specified and provide other proper and suitable materials or articles at his own cost and in the event of failure to do so within the period specified by the ENGINEER-IN-CHARGE in his demand aforesaid, the CONTRACTOR shall be liable to pay compensation at the rate of 1 % (One percent) of the estimated cost of the whole WORK, for every week limited to a maximum of 10% (ten percent) of the value of the whole WORK, while his failure to do so shall continue and in the case of any such failure the ENGINEER-IN-CHARGE may on expiry of notice period rectify or remove and re-execute the WORK or remove and replaced with others, the materials or articles complained of to as the case may be at the risk and expense in all respects of the CONTRACTOR. The decision of the Engineering-in-charge as to any question arising under this clause shall be final and conclusive.

77 Suspension of works:

77.1 Subject to the provisions of sub-para (ii) of this clause, the CONTRACTOR shall, if ordered in writing by the ENGINEER-IN-CHARGE, or his representative, temporarily suspend the WORKS or any part thereof for such written order, proceed with the WORK therein ordered to be suspended until, he shall have received a written order to proceed therewith. The CONTRACTOR shall not be entitled to claim compensation for any loss or damage sustained by him by reason of temporary suspension of the WORKS aforesaid. An extension of time for completion, corresponding with the delay caused by any such suspension of the WORKS as aforesaid will be granted to the CONTRACTOR should he apply for the same provided that the suspension was not consequent to any default or failure on the part of the CONTRACTOR.

77.2 In case of suspensions of entire WORK, ordered in writing by ENGINEER-IN-CHARGE, for a period of more than two months, the CONTRACTOR shall have the option to terminate the CONTRACT.

78 Employer may do part of work:

78.1 Upon failure of the CONTRACTOR to comply with any instructions given in accordance with the provisions of this CONTRACT the EMPLOYER has the alternative right, instead of assuming charge of entire WORK, to place additional labour force, tools, equipments and materials on such parts of the WORK, as the EMPLOYER may designate or also engage another CONTRACTOR to carry out the WORK. In such cases, the EMPLOYER shall deduct from the amount which otherwise might become due to the CONTRACTOR, the cost of such work and material with ten percent (10%) added to cover all departmental charges and should the total amount thereof exceed the amount due to the CONTRACTOR, the CONTRACTOR shall pay the difference to the EMPLOYER.

79 Possession prior to completion:

79.1 The ENGINEER-IN-CHARGE shall have the right to take possession of or use any completed or partially completed WORK or part of the WORK. Such possession or use shall not be deemed to be an acceptance of any work completed in accordance with the CONTRACT agreement. If such prior possession or use by the ENGINEER-IN-CHARGE delays the progress of WORK, equitable adjustment in the time of completion will be made and the CONTRACT agreement shall be deemed to be modified accordingly.

80 Defects Liability Period (Twelve months period of liability from the date of issue of completion certificate):

80.1 The CONTRACTOR shall guarantee the installation/WORK for a period of 12 months from the date of completion of WORK as certified by the ENGINEER-IN-CHARGE which is indicated in the Completion Certificate. Any damage or defect that may arise or lie undiscovered at the time of issue of Completion Certificate, connected in any way with the equipment or materials supplied by him or in the workmanship, shall be rectified or replaced by the CONTRACTOR at his own expense as deemed necessary by the ENGINEER-IN-CHARGE or in default, the ENGINEER-IN-CHARGE may carry out such works by other work and deduct actual cost incurred towards labour, supervision and materials consumables or otherwise plus 100% towards overheads (of which the certificate of ENGINEER-IN-CHARGE shall be final) from any sums that may then be or at any time thereafter, become due to the CONTRACTOR or from his Contract Performance Security, or the proceeds of sale thereof or a sufficient part on thereof.

80.2 If the CONTRACTOR feels that any variation in WORK or in quality of materials or proportions would be beneficial or necessary to fulfil the guarantees called for, he shall bring this to the notice of the ENGINEER-IN-CHARGE in writing. If during the period of liability any portion of the WORK/equipment, is found defective and is rectified/ replaced, the period of liability for such equipment/ portion of WORK shall be operative from the date such rectification/ replacement are carried out and Contract Performance Guarantee shall be furnished separately for the extended period of liability for that portion of WORK/ equipment only. Notwithstanding the above provisions the supplier's, guarantees/warranties for the replaced equipment shall also be passed on to the EMPLOYER.

80.3 LIMITATION OF LIABILITY Notwithstanding anything contrary contained herein, the aggregate total liability of CONTRACTOR under the Agreement or otherwise shall be limited to 100% of Agreement / Contract Value. However, neither party shall be liable to the other party for any indirect and consequential damages, loss of profits or loss of production.

81 Care of works:

81.1 From the commencement to completion of the WORK, the CONTRACTOR shall take full responsibility for the care for all works including all temporary works and in case any damages, loss or injury shall happen to the WORK or to any part thereof or to any temporary works from any cause whatsoever, shall at his own cost repair and make good the same so that at completion the WORK shall be in good order and in conformity in every respects with the requirement of the CONTRACT and the ENGINEER-IN- CHARGE's instructions.

81.2 DEFECTS PRIOR TO TAKING OVER: If at any time, before the WORK is taken over, the ENGINEER-IN-CHARGE shall: a) Decide that any works done or materials used by the CONTRACTOR or by any SUB-CONTRACTOR is defective or not in accordance with the CONTRACT, or that the works or any portion thereof are defective, or do not fulfill the requirements of CONTRACT (all such matters being hereinafter, called 'Defects' in this clause), and b) As soon as reasonably practicable, gives to the CONTRACTOR notice in writing of the said decision, specifying particulars of the defects alleged to exist or to have occurred, then the CONTRACTOR shall at his own expenses and with all speed make good the defects so specified. In case CONTRACTOR shall fail to do so, the EMPLOYER may take, at the cost of the CONTRACTOR, such steps as may in all circumstances, be reasonable to make good such defects. The expenditure so incurred by the EMPLOYER will be recovered from the amount due to the CONTRACTOR. The decision of the ENGINEER-IN-CHARGE with regard to the amount to be recovered from the CONTRACTOR will be final and binding on the CONTRACTOR. As soon as the WORK has been completed in accordance with the CONTRACT (except in minor respects that do not affect their use for the purpose for which they are intended and except for maintenance there of provided in clause 80.1 of General Conditions of Contract) and have passed the tests on completion, the ENGINEER-IN-CHARGE shall issue a certificate (hereinafter called Completion Certificate) in which he shall certify the date on which the WORK have been so completed and have passed the said tests and the EMPLOYER shall be deemed to have taken over the WORK on the date so certified. If the WORK has been divided into various groups in the CONTRACT, the EMPLOYER shall be entitled to take over any group or groups before the other or others and there upon the ENGINEER-IN-CHARGE shall issue a Completion Certificate which will, however, be for such group or groups so taken over only. In such an event if the group /section/ part so taken over is related, to the integrated system of the work, not withstanding date of grant of Completion Certificate for group/ section/ part. The period of liability in respect of such group/ section/ part shall extend 12 (twelve) months from the date of completion of WORK.

81.3 DEFECTS AFTER TAKING OVER: In order that the CONTRACTOR could obtain a COMPLETION CERTIFICATE he shall make good, with all possible speed, any defect arising from the defective materials supplied by the CONTRACTOR or workmanship or any act or omission of the CONTRACT or that may have been noticed or developed, after the works or groups of the works has been taken over, the period allowed for carrying out such WORK will be normally one month. If any defect be not remedied within a reasonable time, the EMPLOYER may proceed to do the WORK at CONTRACTOR's risk and expense and deduct from the final bill such amount as may be decided by the EMPLOYER. If by reason of any default on the part of the CONTRACTOR a COMPLETION CERTIFICATE has not been issued in respect of any portion of the WORK within one month after the date fixed by the CONTRACT for the completion of the WORK, the EMPLOYER shall be at liberty to use the WORK or any portion thereof in respect of which a completion certificate has not been issued, provided that the WORK or the portion thereof so used as aforesaid shall be afforded reasonable opportunity for completing these works for the issue of Completion Certificate.

82 Guarantee/transfer of guarantee:

82.1 For works like water-proofing, acid and alkali resisting materials, pre-construction soil treatment against termite or any other specialized works etc. the CONTRACTOR shall invariably engage SUB-CONTRACTORS who are specialists in the field and firms of repute and such a SUB-CONTRACTOR shall furnish guarantees for their workmanship to the EMPLOYER, through the CONTRACTOR. In case such a SUB-CONTRACTOR/ firm is not prepared to furnish a guarantee to the EMPLOYER, the CONTRACTOR shall give that guarantee to the EMPLOYER directly.

83 Training of employer's personnel:

83.1 The CONTRACTOR undertakes to provide training to Engineering personnel selected and sent by the EMPLOYER at the works of the CONTRACTOR without any cost to the EMPLOYER. The period and the nature of training for the individual personnel shall be agreed upon mutually between the CONTRACTOR and the EMPLOYER. These engineering personnel shall be given special training at the shops, where the equipment will be manufactured and/ or in their collaborator's works and where possible, in any other plant where equipment manufactured by the CONTRACTOR or his collaborators is under installation or test to enable those personnel to become familiar with the equipment being furnished by the CONTRACTOR. EMPLOYER shall bear only the to and fro fare of the said engineering personnel.

84 Replacement of defective parts and materials:

- 84.1 If during the progress of the WORK, EMPLOYER shall decide and inform in writing to the CONTRACTOR, that the CONTRACTOR has manufactured any plant or part of the plant unsound or imperfect or has furnished plant inferior to the quality specified, the CONTRACTOR on receiving details of such defects or deficiencies shall at his own expenses within 7 (seven) days of his receiving the notice, or otherwise within such time as may be reasonably necessary for making it good, proceed to alter, re-construct or remove such work and furnish fresh equipments upto the standards of the specifications. In case the CONTRACTOR fails to do so, EMPLOYER may on giving the CONTRACTOR 7 (seven) day's notice in writing of his intentions to do so, proceed to remove the portion of the WORK so complained of and at the cost of CONTRACTOR's, perform all such works or furnish all such equipments provided that nothing in the clause shall be deemed to deprive the EMPLOYER of or affect any rights under the CONTRACT, the EMPLOYER may otherwise have in respect of such defects and deficiencies.
- 84.2 The CONTRACTOR's full and extreme liability under this clause shall be satisfied by the payments to the EMPLOYER of the extra cost, of such replacements procured including erection/installation as provided for in the CONTRACT; such extra cost being the ascertained difference between the price paid by the EMPLOYER for such replacements and the CONTRACT price portion for such defective plants and repayments of any sum paid by the EMPLOYER to the CONTRACTOR in respect of such defective plant. Should the EMPLOYER not so replace the defective plant the CONTRACTOR's extreme liability under this clause shall be limited to the repayment of all such sums paid by the EMPLOYER under the CONTRACT for such defective plant.

85 Indemnity

- 85.1 If any action is brought before a Court, Tribunal or any other Authority against the Employer or an officer or agent of the EMPLOYER, for the failure, omission or neglect on the part of the CONTRACTOR to perform any acts, matters, covenants or things under the CONTRACT, or damage or injury caused by the alleged omission or negligence on the part of the CONTRACTOR, his agents, representatives or his SUB- CONTRACTOR's, or in connection with any claim based on lawful demands of SUB-CONTRACTOR's workmen suppliers or employees, the CONTRACTOR, shall in such cases indemnify and keep the EMPLOYER and/or their representatives harmless from all losses, damages, expenses or decrees arising out of such action.

86 Construction aids, equipments, tools & tackles:

- 86.1 CONTRACTOR shall be solely responsible for making available for executing the WORK, all requisite CONSTRUCTION EQUIPMENTS, Special Aids, Barges, Cranes and the like, all Tools, Tackles and Testing Equipment and Appliances, including imports of such equipment etc. as required. In case of import of the same the rates applicable for levying of Custom Duty on such Equipment, Tools, & Tackles and the duty drawback applicable thereon shall be ascertained by the CONTRACTOR from the concerned authorities of Government of India. It shall be clearly understood that EMPLOYER shall not in any way be responsible for arranging to obtain Custom Clearance and/or payment of any duties and/or duty draw backs etc. for such equipments so imported by the CONTRACTOR and the CONTRACTOR shall be fully responsible for all taxes, duties and documentation with regard to the same. Tenderer in his own interest may contact, for any clarifications in the matter, concerned agencies/Dept./Ministries of Govt. of India. All clarifications so obtained and interpretations thereof shall be solely the responsibility of the CONTRACTOR.

SECTION-VI CERTIFICATES AND PAYMENTS

87 Schedule of rates and payments:

- 87.1 CONTRACTOR'S REMUNERATION: The price to be paid by the EMPLOYER to CONTRACTOR for the whole of the WORK to be done and for the performance of all the obligations undertaken by the CONTRACTOR under the CONTRACT DOCUMENTS shall be ascertained by the application of the respective Schedule of Rates (the inclusive nature of which is more particularly defined by way of application but not of limitation, with the succeeding sub-clause of this clause) and payment to be made accordingly for the WORK actually executed and approved by the ENGINEER-IN- CHARGE. The sum so ascertained shall (excepting only as and to the extent expressly provided herein) constitute the sole and inclusive remuneration of the CONTRACTOR under the CONTRACT and no further or other payment whatsoever shall be or become due or payable to the CONTRACTOR under the CONTRACT.
- 87.2 SCHEDULE OF RATES TO BE INCLUSIVE: The prices/rates quoted by the CONTRACTOR shall remain firm till the issue of FINAL CERTIFICATE and shall not be subject to escalation. Schedule of Rates shall be deemed to include and cover all costs, expenses and liabilities of every description and all risks of every kind to be taken in executing, completing and handing over the WORK to the EMPLOYER by the CONTRACTOR. The CONTRACTOR shall be deemed to have known the nature, scope, magnitude and the extent of the WORK and materials required though the CONTRACT DOCUMENT may not fully and precisely furnish them. Tenderer's shall make such provision in the Schedule of Rates as he may consider necessary to cover the cost of such items of WORK and materials as may be reasonable and necessary to complete the WORK. The opinion of the ENGINEER-IN-CHARGE as to the items of WORK which are necessary and reasonable for COMPLETION OF WORK shall be final and binding on the CONTRACTOR, although the same may not be shown on or described specifically in CONTRACT DOCUMENTS. Generality of this present provision shall not be deemed to cut down or limit in any way because in certain cases it may and in other cases it may not be expressly stated that the CONTRACTOR shall do or perform a work or supply articles or perform services at his own cost or without addition of payment or without extra charge or words to the same effect or that it may be stated or not stated that the same are included in and covered by the Schedule of Rates.

- 87.3 SCHEDULE OF RATES TO COVER CONSTRUCTION EQUIPMENTS, MATERIALS, LABOUR ETC.: Without in any way limiting the provisions of the preceding sub-clause the Schedule of Rates shall be deemed to include and cover the cost of all construction equipment, temporary WORK (except as provided for herein), pumps, materials, labour, insurance, fuel, consumables, stores and appliances to be supplied by the CONTRACTOR and all other matters in connection with each item in the Schedule of Rates and the execution of the WORK or any portion thereof finished, complete in every respect and maintained as shown or described in the CONTRACT DOCUMENTS or as may be ordered in writing during the continuance of the CONTRACT.
- 87.4 SCHEDULE OF RATES TO COVER ROYALTIES, RENTS AND CLAIMS: The Schedule of Rates (i.e., VALUE OF CONTRACT) shall be deemed to include and cover the cost of all royalties and fees for the articles and processes, protected by letters, patent or otherwise incorporated in or used in connection with the WORK, also all royalties, rents and other payments in connection with obtaining materials of whatsoever kind for the WORK and shall include an indemnity to the EMPLOYER which the CONTRACTOR hereby gives against all actions, proceedings, claims, damages, costs and expenses arising from the incorporation in or use on the WORK of any such articles, processes or materials, octroi or other municipal or local Board Charges, if levied on materials, equipment or machineries to be brought to site for use on WORK shall be borne by the CONTRACTOR.
- 87.5 SCHEDULE OF RATES TO COVER TAXES AND DUTIES: No exemption or reduction of Customs Duties, Excise Duties, Sales Tax, Sales Tax on works Contract quay or any port dues, transport charges, stamp duties or Central or State Government or local Body or Municipal Taxes or duties, taxes or charges (from or of any other body), whatsoever, will be granted or obtained, all of which expenses shall be deemed to be included in and covered by the Schedule or Rates. The CONTRACTOR shall also obtain and pay for all permits or other privileges necessary to complete the WORK.
- 87.6 SCHEDULE OF RATES TO COVER RISKS OF DELAY: The Schedule of Rates shall be deemed to include and cover the risk of all possibilities of delay and interference with the CONTRACTOR's conduct of WORK which occur from any causes including orders of the EMPLOYER in the exercise of his power and on account of extension of time granted due to various reasons and for all other possible or probable causes of delay.
- 87.7 SCHEDULE OF RATES CANNOT BE ALTERED: For WORK under unit rate basis, no alteration will be allowed in the Schedule of Rates by reason of works or any part of them being modified, altered, extended, diminished or committed. The Schedule of Rates are fully inclusive of rates which have been fixed by the CONTRACTOR and agreed to by the EMPLOYER and cannot be altered. For lumpsum CONTRACTS, the payment will be made according to the WORK actually carried out, for which purpose an item wise, or work wise Schedule of Rates shall be furnished, suitable for evaluating the value of WORK done and preparing running account bill. Payment for any additional work which is not covered in the Schedule of Rates, shall only be released on issuance of change order.

88 Procedure for measurement and billing of work in progress:

- 88.1 BILLING PROCEDURE: Following procedures shall be adopted for billing of works executed by the CONTRACTOR.
- 88.1.1 All measurements shall be recorded in sextuplicate on standard measurement sheets supplied by EMPLOYER and submitted to EMPLOYER/CONSULTANT for scrutiny and passing.
- 88.1.2 EMPLOYER/CONSULTANT shall scrutinise and check the measurements recorded on the sheets and shall certify correctness of the same on the measurement sheets.
- 88.1.3 ENGINEER-IN-CHARGE shall pass the bills after carrying out the comprehensive checks in accordance with the terms and conditions of the CONTRACTS, within 7 days of submission of the bills, complete in all respects and send the same to the Employer to effect payment to the CONTRACTOR.
- 88.1.4 GAIL shall make all endeavour to make payments of undisputed amount of the bills submitted based on the joint measurements within 15 (Fifteen) days from the date of certification by the Engineer-in-Charge.
- 88.1.5 Measurements shall be recorded as per the methods of measurement spelt out in EMPLOYER/CONSULTANT SPECIFICATIONS / CONTRACT DOCUMENT. EMPLOYER/CONSULTANT shall be fully responsible for checking the measurements quantitatively and qualitatively as recorded in the Measurement Books/ Bills.
- 88.1.6 While preparing the final bills overall measurements will not be taken again. Only volume of work executed since the last measured bill alongwith summary of final measurements will be considered for the final bill. However, a detailed check shall be made as to missing measurements and in case there are any missing items or measurements the same shall be recorded.
- 88.1.7 COMPUTERISED BILLING SYSTEM : GAIL (India) Limited has introduced Computerised Billing System whereby when the Bills are submitted in GAIL by a Contractor, a receipt number is generated. The Contractor can know the status of the Bill through GAIL's website. **(Not applicable in case of BCPL)**
- 88.2 SECURED ADVANCE ON MATERIAL: Unless otherwise provided elsewhere in the tender, no 'Secured Advance' on security of materials brought to site for execution of contracted items(s) shall be paid to the Contractor whatsoever.
- 88.3 DISPUTE IN MODE OF MEASUREMENT: In case of any dispute as to the mode of measurement not covered by the CONTRACT to be adopted for any item of WORK, mode of measurement as per latest Indian Standard Specifications shall be followed.
- 88.4 ROUNDING-OFF OF AMOUNTS: In calculating the amount of each item due to the CONTRACTOR in every certificate prepared for payment, sum of less than 50 paise shall be omitted and the total amount on each certificate shall be rounded off to the nearest rupees, i.e., sum of less than 50 paise shall be omitted and sums of 50 paise and more upto one rupee shall be reckoned as one rupee.

89 Lumpsum in tender:

89.1 The payment against any Lumpsum item shall be made only on completion of that item as per the provision of the CONTRACT after certification by ENGINEER-IN-CHARGE.

90 Running account payments to be regarded as advance:

90.1 All running account payments shall be regarded as payment by way of advance against the final payment only and not as payments for WORK actually done and completed and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the due performance of the CONTRACT, or any part thereof, in this respect, or of the accruing of any claim by the CONTRACTOR, nor shall it conclude, determine or affect in any way the powers of the EMPLOYER under these conditions or any of them as to the final settlement and adjustment of the accounts or otherwise, or in any other way vary or affect the CONTRACT. The final bill shall be submitted by the CONTRACTOR within one month of the date of physical completion of the WORK, otherwise, the ENGINEER-IN-CHARGE's certificate of the measurement and of total amount payable for the WORK accordingly shall be final and binding on all parties

91 Notice of claims for additional payments:

91.1 Should the CONTRACTOR consider that he is entitled to any extra payment for any extra/additional WORKS or MATERIAL change in original SPECIFICATIONS carried out by him in respect of WORK he shall forthwith give notice in writing to the ENGINEER-IN-CHARGE that he claims extra payment. Such notice shall be given to the ENGINEER-IN-CHARGE upon which CONTRACTOR bases such claims and such notice shall contain full particulars of the nature of such claim with full details of amount claimed. Irrespective of any provision in the CONTRACT to the contrary, the CONTRACTOR must intimate his intention to lodge claim on the EMPLOYER within 10 (ten) days of the commencement of happening of the event and quantify the claim within 30 (thirty) days, failing which the CONTRACTOR will lose his right to claim any compensation/reimbursement/damages etc. or refer the matter to arbitration. Failure on the part of CONTRACTOR to put forward any claim without the necessary particulars as above within the time above specified shall be an absolute waiver thereof. No omission by EMPLOYER to reject any such claim and no delay in dealing therewith shall be waiver by EMPLOYER of any of this rights in respect thereof.

91.2 ENGINEER-IN-CHARGE shall review such claims within a reasonable period of time and cause to discharge these in a manner considered appropriate after due deliberations thereon. However, CONTRACTOR shall be obliged to carry on with the WORK during the period in which his claims are under consideration by the EMPLOYER, irrespective of the outcome of such claims, where additional payments for WORKS considered extra are justifiable in accordance with the CONTRACT provisions, EMPLOYER shall arrange to release the same in the same manner as for normal WORK payments. Such of the extra works so admitted by EMPLOYER shall be governed by all the terms, conditions, stipulations and specifications as are applicable for the CONTRACT. The rates for extra works shall generally be the unit rates provided for in the CONTRACT. In the event unit rates for extra works so executed are not available as per CONTRACT, payments may either be released on day work basis for which daily/hourly rates for workmen and hourly rates for equipment rental shall apply, or on the unit rate for WORK executed shall be derived by interpolation/ extrapolation of unit rates already existing in the CONTRACT. In all the matters pertaining to applicability of rate and admittance of otherwise of an extra work claim of CONTRACTOR the decision of ENGINEER-IN-CHARGE shall be final and binding.

92 Payment of contractor's bill:

92.1 No payment shall be made for works estimated to cost less than Rs.10,000/- till the whole of the work shall have been completed and a certificate of completion given. But in case of works estimated to cost more than Rs.10,000/-, that CONTRACTOR on submitting the bill thereof be entitled to receive a monthly payment proportionate to the part thereof approved and passed by the ENGINEER-IN-CHARGE, whose certificate of such approval and passing of the sum so payable shall be final and conclusive against the CONTRACTOR. This payment will be made after making necessary corrections/deductions as stipulated elsewhere in the CONTRACT DOCUMENT for materials, Contract Performance Security, taxes etc.

92.2 Payment due to the CONTRACTOR shall be made by the EMPLOYER by Account Payee cheque forwarding the same to registered office or the notified office of the CONTRACTOR. In no case will EMPLOYER be responsible if the cheque is mislaid or misappropriated by unauthorised person/persons. In all cases, the CONTRACTOR shall present his bill duly pre-receipted on proper revenue stamp payment shall be made in Indian Currency.

92.3 In general payment of final bill shall be made to CONTRACTOR within 60 days of the submission of bill on joint measurements, after completion of all the obligations under the CONTRACT.

93 Receipt for payment:

93.1 Receipt for payment made on account of work when executed by a firm, must be signed by a person holding due power of attorney in this respect on behalf of the CONTRACTOR, except when the CONTRACTOR's are described in their tender as a limited company in which case the receipts must be signed in the name of the company by one of its principal officers or by some other person having authority to give effectual receipt for the company.

94 Completion certificate:

- 94.1 APPLICATION FOR COMPLETION CERTIFICATE: When the CONTRACTOR fulfils his obligation under Clause 81.1 he shall be eligible to apply for COMPLETION CERTIFICATE. The ENGINEER-IN-CHARGE shall normally issue to the CONTRACTOR the COMPLETION CERTIFICATE within one month after receiving any application therefore from the CONTRACTOR after verifying from the completion documents and satisfying himself that the WORK has been completed in accordance with and as set out in the construction and erection drawings, and the CONTRACT DOCUMENTS. The CONTRACTOR, after obtaining the COMPLETION CERTIFICATE, is eligible to present the final bill for the WORK executed by him under the terms of CONTRACT.
- 94.2 COMPLETION CERTIFICATE: Within one month of the completion of the WORK in all respects, the CONTRACTOR shall be furnished with a certificate by the ENGINEER-IN-CHARGE of such completion, but no certificate shall be given nor shall the WORK be deemed to have been executed until all scaffolding, surplus materials and rubbish is cleared off the SITE completely nor until the WORK shall have been measured by the ENGINEER-IN-CHARGE whose measurement shall be binding and conclusive. The WORKS will not be considered as complete and taken over by the EMPLOYER, until all the temporary works, labour and staff colonies are cleared to the satisfaction of the ENGINEER-IN-CHARGE. If the CONTRACTOR fails to comply with the requirements of this clause on or before the date fixed for the completion of the WORK, the ENGINEER-IN-CHARGE may at the expense of the CONTRACTOR remove such scaffolding, surplus materials and rubbish and dispose off the same as he thinks fit and clean off such dirt as aforesaid, and the CONTRACTOR shall forthwith pay the amount of all expenses so incurred and shall have no claim in respect of any such scaffolding or surplus materials as aforesaid except for any sum actually realised by the sale thereof.
- 94.3 COMPLETION CERTIFICATE DOCUMENTS: For the purpose of Clause 94.0 the following documents will be deemed to form the completion documents:
- (i) The technical documents according to which the WORK was carried out. Six (6) sets of construction drawings showing therein the modification and correction made during the course of execution and signed by the ENGINEER-IN-CHARGE.
 - (ii) COMPLETION CERTIFICATE for 'embedded' and 'covered' up work.
 - (iii) Certificates of final levels as set out for various works.
 - (iv) Certificates of tests performed for various WORKS.
 - (v) Material appropriation, Statement for the materials issued by the EMPLOYER for the WORK and list of surplus materials returned to the EMPLOYER's store duly supported by necessary documents.

95 Final decision and final certificate:

- 95.1 Upon expiry of the period of liability and subject to the ENGINEER-IN-CHARGE being satisfied that the WORKS have been duly maintained by the CONTRACTOR during monsoon or such period as hereinbefore provided in Clause 80 & 81 and that the CONTRACTOR has in all respect duly made-up any subsidence and performed all his obligations under the CONTRACT, the ENGINEER-IN-CHARGE shall (without prejudice to the rights of the EMPLOYER to retain the provisions of relevant Clause hereof) otherwise give a certificate herein referred to as the FINAL CERTIFICATE to that effect and the CONTRACTOR shall not be considered to have fulfilled the whole of his obligations under CONTRACT until FINAL CERTIFICATE shall have been given by the ENGINEER-IN-CHARGE notwithstanding any previous entry upon the WORK and taking possession, working or using of the same or any part thereof by the EMPLOYER.

96 Certificate and payments on evidence of completion:

- 96.1 Except the FINAL CERTIFICATE, no other certificates or payments against a certificate or on general account shall be taken to be an admission by the EMPLOYER of the due performance of the CONTRACT or any part thereof or of occupancy or validity of any claim by the CONTRACTOR.

97 Deductions from the contract price:

- 97.1 All costs, damages or expenses which EMPLOYER may have paid or incurred, which under the provisions of the CONTRACT, the CONTRACTOR is liable/will be liable, will be claimed by the EMPLOYER. All such claims shall be billed by the EMPLOYER to the CONTRACTOR regularly as and when they fall due. Such claims shall be paid by the CONTRACTOR within 15 (fifteen) days of the receipt of the corresponding bills and if not paid by the CONTRACTOR within the said period, the EMPLOYER may, then, deduct the amount from any moneys due i.e., Contract Performance Security or becoming due to the CONTRACTOR under the CONTRACT or may be recovered by actions of law or otherwise, if the CONTRACTOR fails to satisfy the EMPLOYER of such claims.

SECTION-VII TAXES AND INSURANCE

98 Taxes, Duties, Octroi etc:

- 98.1 The CONTRACTOR agrees to and does hereby accept full and exclusive liability for the payment of any and all Taxes, Duties, including Excise duty, octroi etc. now or hereafter imposed, increased, modified, all the sales taxes, duties, octrois etc. now in force and hereafter increased, imposed or modified, from time to time in respect of WORKS and materials and all contributions and taxes for unemployment compensation, insurance and old age pensions or annuities now or hereafter imposed by any Central or State Government authorities which are imposed with respect to or covered by the wages, salaries, or other compensations paid to the persons employed by the CONTRACTOR and the CONTRACTOR shall be responsible for the compliance of all SUB-CONTRACTORS, with all applicable Central, State, Municipal and local law and regulation and requirement of any Central, State or

local Government agency or authority. CONTRACTOR further agrees to defend, indemnify and hold EMPLOYER harmless from any liability or penalty which may be imposed by the Central, State or Local authorities by reason or any violation by CONTRACTOR or SUB-CONTRACTOR of such laws, suits or proceedings that may be brought against the EMPLOYER arising under, growing out of, or by reason of the work provided for by this CONTRACT, by third parties, or by Central or State Government authority or any administrative sub-division thereof. Tax deductions will be made as per the rules and regulations in force in accordance with acts prevailing from time to time.

99 Sales tax/Turnover tax:

99.1 Tenderer should quote all inclusive prices including the liability of Sales Tax/Turnover Tax whether on the works contract as a whole or in respect of bought out components used by the CONTRACTOR in execution of the CONTRACT. EMPLOYER shall not be responsible for any such liability of the CONTRACTOR in respect of this CONTRACT.

100 Statutory variations

100.1 Tenderer should quote prices inclusive of excise-duty and sales tax applicable on finished product. Any statutory variations in Excise Duty and sales tax on finished product during the contractual completion period, shall be to the Employer's account for which the Contractor will furnish documentary evidence(s) in support of their claims to GAIL. However, any increase in the rate of these taxes and duties (E.D. and S.T.) beyond the contractual completion period shall be to Contractor's account and any decrease shall be passed on to GAIL.

101 Insurance:

101.1 GENERAL CONTRACTOR shall at his own expense arrange secure and maintain insurance with reputable insurance companies to the satisfaction of the EMPLOYER as follows: CONTRACTOR at his cost shall arrange, secure and maintain insurance as may be necessary and to its full value for all such amounts to protect the WORKS in progress from time to time and the interest of EMPLOYER against all risks as detailed herein. The form and the limit of such insurance, as defined here in together with the under works thereof in each case should be as acceptable to the EMPLOYER. However, irrespective of work acceptance the responsibility to maintain adequate insurance coverage at all times during the period of CONTRACT shall be that of CONTRACTOR alone. CONTRACTOR's failure in this regard shall not relieve him of any of his responsibilities and obligations under CONTRACT. Any loss or damage to the equipment, during ocean transportation, port/custom clearance, inland and port handling, inland transportation, storage, erection and commissioning till such time the WORK is taken over by EMPLOYER, shall be to the account of CONTRACTOR. CONTRACTOR shall be responsible for preferring of all claims and make good for the damage or loss by way of repairs and/or replacement of the parts of the Work damaged or lost. CONTRACTOR shall provide the EMPLOYER with a copy of all insurance policies and documents taken out by him in pursuance of the CONTRACT. Such copies of document shall be submitted to the EMPLOYER immediately upon the CONTRACTOR having taken such insurance coverage. CONTRACTOR shall also inform the EMPLOYER at least 60(Sixty) days in advance regarding the expiry cancellation and/or changes in any of such documents and ensure revalidation/renewal etc., as may be necessary well in time. Statutory clearances, if any, in respect of foreign supply required for the purpose of replacement of equipment lost in transit and/or during erection, shall be made available by the EMPLOYER. CONTRACTOR shall, however, be responsible for obtaining requisite licences, port clearances and other formalities relating to such import. The risks that are to be covered under the insurance shall include, but not be limited to the loss or damage in handling, transit, theft, pilferage, riot, civil commotion, weather conditions, accidents of all kinds, fire, war risk (during ocean transportation only) etc. The scope of such insurance shall cover the entire value of supplies of equipments, plants and materials to be imported from time to time. All costs on account of insurance liabilities covered under CONTRACT will be to CONTRACTOR's account and will be included in VALUE OF CONTRACT. However, the EMPLOYER may from time to time, during the currency of the CONTRACT, ask the CONTRACTOR in writing to limit the insurance coverage risk and in such a case, the parties to the CONTRACT will agree for a mutual settlement, for reduction in VALUE OF CONTRACT to the extent of reduced premium amounts CONTRACTOR as far as possible shall cover insurance with Indian Insurance Companies, including marine Insurance during ocean transportation.

101.1.1 EMPLOYEES STATE INSURANCE ACT: The CONTRACTOR agrees to and does hereby accept full and exclusive liability for the compliance with all obligations imposed by the Employee State Insurance Act 1948 and the CONTRACTOR further agrees to defend, indemnify and hold EMPLOYER harmless for any liability or penalty which may be imposed by the Central, State or Local authority by reason of any asserted violation by CONTRACTOR or SUB-CONTRACTOR of the Employees' State Insurance Act, 1948, and also from all claims, suits or proceeding that may be brought against the EMPLOYER arising under, growing out of or by reasons of the work provided for by this CONTRACTOR, by third parties or by Central or State Government authority or any political sub- division thereof. The CONTRACTOR agrees to fill in with the Employee's State Insurance Corporation, the Declaration Forms, and all forms which may be required in respect of the CONTRACTOR's or SUB- CONTRACTOR's employees, who are employed in the WORK provided for or those covered by ESI from time to time under the Agreement. The CONTRACTOR shall deduct and secure the agreement of the SUB-CONTRACTOR to deduct the employee's contribution as per the first schedule of the Employee's State Insurance Act from wages and affix the Employees Contribution Card at wages payment intervals. The CONTRACTOR shall remit and secure the agreement of SUB-CONTRACTOR to remit to the State Bank of India, Employee's State Insurance Corporation Account, the Employee's contribution as required by the Act.

The CONTRACTOR agrees to maintain all cards and Records as required under the Act in respect of employees and payments and the CONTRACTOR shall secure the agreement of the SUB- CONTRACTOR to maintain such records. Any expenses incurred for the contributions, making contributions or maintaining records shall be to the CONTRACTOR's or SUB-CONTRACTOR's account. The EMPLOYER shall retain such sum as may be necessary from the total VALUE OF CONTRACT until the CONTRACTOR shall furnish satisfactory proof that all contributions as required by the Employees State Insurance Act, 1948, have been paid. This will be pending on the CONTRACTOR when the ESI Act is extended to the place of work.

- 101.1.2 WORKMEN COMPENSATION AND EMPLOYER'S LIABILITY INSURANCE: Insurance shall be effected for all the CONTRACTOR's employees engaged in the performance of this CONTRACT. If any of the work is sublet, the CONTRACTOR shall require the SUB-CONTRACTOR to provide workman's Compensation and employer's liability insurance for the later's employees if such employees are not covered under the CONTRACTOR's Insurance.
- 101.1.3 ACCIDENT OR INJURY TO WORKMEN: The EMPLOYER shall not be liable for or in respect of any damages or compensation payable at law in respect or in consequence of any accident or injury to any workman or other person in the Employment of the CONTRACTOR or any SUB-CONTRACTOR save and except an accident or injury resulting from any act or default of the EMPLOYER, his agents or servants and the CONTRACTOR shall indemnify and keep indemnified the EMPLOYER against all such damages and compensation (save and except and aforesaid) and against all claims, demands, proceeding, costs, charges and expenses, whatsoever in respect or in relation thereto.
- 101.1.4 TRANSIT INSURANCE In respect of all items to be transported by the CONTRACTOR to the SITE of WORK, the cost of transit insurance should be borne by the CONTRACTOR and the quoted price shall be inclusive of this cost.
- 101.1.5 COMPREHENSIVE AUTOMOBILE INSURANCE This insurance shall be in such a form as to protect the Contractor against all claims for injuries, disability, disease and death to members of public including EMPLOYER's men and damage to the property of others arising from the use of motor vehicles during on or off the 'site' operations, irrespective of the Employer'ship of such vehicles.
- 101.1.6 COMPREHENSIVE GENERAL LIABILITY INSURANCE:
- a) This insurance shall protect the Contractor against all claims arising from injuries, disabilities, disease or death of member of public or damage to property of others due to any act or omission on the part of the Contractor, his agents, his employees, his representatives and Sub- Contractor's or from riots, strikes and civil commotion.
 - b) Contractor shall take suitable Group Personal Accident Insurance Cover for taking care of injury, damage or any other risks in respect of his Engineers and other Supervisory staff who are not covered under Employees State Insurance Act.
 - c) The policy shall cover third party liability. The third party (liability shall cover the loss/ disablement of human life (person not belonging to the Contractor) and also cover the risk of damage to others materials/ equipment/ properties during construction, erection and commissioning at site. The value of third party liability for compensation for loss of human life or partial/full disablement shall be of required statutory value but not less than Rs. 2 lakhs per death, Rs. 1.5 lakhs per full disablement and Rs. 1 lakh per partial disablement and shall nevertheless cover such compensation as may be awarded by Court by Law in India and cover for damage to others equipment/ property as approved by the Purchaser. However, third party risk shall be maximum to Rs. 10(ten) lakhs to death.
 - d) The Contractor shall also arrange suitable insurance to cover damage, loss, accidents, risks etc., in respect of all his plant, equipments and machinery, erection tools & tackles and all other temporary attachments brought by him at site to execute the work.
 - e) The Contractor shall take out insurance policy in the joint name of EMPLOYER and Contractor from one or more nationalised insurance company from any branch office at Project site.
 - f) Any such insurance requirements as are hereby established as the minimum policies and coverages which Contractor must secure and keep in force must be complied with, Contractor shall at all times be free to obtain additional or increased coverages at Contractor's sole expenses.
- 101.1.7 ANY OTHER INSURANCE REQUIRED UNDER LAW OR REGULATIONS OR BY EMPLOYER: CONTRACTOR shall also carry and maintain any and all other insurance(s) which he may be required under any law or regulation from time to time without any extra cost to EMPLOYER. He shall also carry and maintain any other insurance which may be required by the EMPLOYER.

102 Damage to Property or to any Person or any Third Party

- 102.1 CONTRACTOR shall be responsible for making good to the satisfaction of the EMPLOYER any loss or any damage to structures and properties belonging to the EMPLOYER or being executed or procured or being procured by the EMPLOYER or of other agencies within in the premises of all the work of the EMPLOYER, if such loss or damage is due to fault and/or the negligence or willful acts or omission of the CONTRACTOR, his employees, agents, representatives or SUB-CONTRACTORS.
- 102.2 The CONTRACTOR shall take sufficient care in moving his plants, equipments and materials from one place to another so that they do not cause any damage to any person or to the property of the EMPLOYER or any third party including overhead and underground cables and in the event of any damage resulting to the property of the EMPLOYER or of a third party during the movement of the aforesaid plant, equipment or materials the cost of such damages including eventual loss of production, operation or services in any plant or establishment as

estimated by the EMPLOYER or ascertained or demanded by the third party shall be borne by the CONTRACTOR. Third party liability risk shall be Rupees One lakh for single accident and limited to Rupees Ten lakhs.

- 102.3 The CONTRACTOR shall indemnify and keep the EMPLOYER harmless of all claims for damages to property other than EMPLOYER's property arising under or by reason of this agreement, if such claims result from the fault and/or negligence or willful acts or omission of the CONTRACTOR, his employees, agents, representative of SUB-CONTRACTOR.

SECTION-VIII LABOUR LAWS

103 Labour laws:

- 103.1 No labour below the age of 18 (eighteen) years shall be employed on the WORK.
- 103.2 The CONTRACTOR shall not pay less than what is provided under law to labourers engaged by him on the WORK.
- 103.3 The CONTRACTOR shall at his expense comply with all labour laws and keep the EMPLOYER indemnified in respect thereof.
- 103.4 The CONTRACTOR shall pay equal wages for men and women in accordance with applicable labour laws.
- 103.5 If the CONTRACTOR is covered under the Contract labour (Regulation and Abolition) Act, he shall obtain a licence from licensing authority (i.e. office of the labour commissioner) by payment of necessary prescribed fee and the deposit, if any, before starting the WORK under the CONTRACT. Such fee/deposit shall be borne by the CONTRACTOR.
- 103.6 The CONTRACTOR shall employ labour in sufficient numbers either directly or through SUB-CONTRACTOR's to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the CONTRACT and to the satisfaction of the ENGINEER-IN-CHARGE.
- 103.7 The CONTRACTOR shall furnish to the ENGINEER-IN-CHARGE the distribution return of the number and description, by trades of the work people employed on the works. The CONTRACTOR shall also submit on the 4th and 19th of every month to the ENGINEER-IN-CHARGE a true statement showing in respect of the second half of the preceding month and the first half of the current month (1) the accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them and (2) the number of female workers who have been allowed Maternity Benefit as provided in the Maternity Benefit Act 1961 on Rules made thereunder and the amount paid to them.
- 103.8 The CONTRACTOR shall comply with the provisions of the payment of Wage Act 1936, Employee Provident Fund Act 1952, Minimum Wages Act 1948. Employers Liability Act 1938. Workmen's Compensation Act 1923, Industrial Disputes Act 1947, the Maternity Benefit Act 1961 and Contract Labour Regulation and Abolition Act 1970, Employment of Children Act 1938 or any modifications thereof or any other law relating thereto and rules made thereunder from time to time.
- 103.9 The ENGINEER-IN-CHARGE shall on a report having been made by an Inspecting Officer as defined in Contract Labour (Regulation and Abolition) Act 1970 have the power to deduct from the money due to the CONTRACTOR any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non- fulfillment of the Conditions of the Contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the Contract or non-observance of the said regulations.
- 103.10 The CONTRACTOR shall indemnify the EMPLOYER against any payments to be made under and for the observance of the provisions of the aforesaid Acts without prejudice to his right to obtain indemnity from his SUB-CONTRACTOR's. In the event of the CONTRACTOR committing a default or breach of any of the provisions of the aforesaid Acts as amended from time to time, of furnishing any information or submitting or filling and Form/ Register/ Slip under the provisions of these Acts which is materially incorrect then on the report of the inspecting Officers, the CONTRACTOR shall without prejudice to any other liability pay to the EMPLOYER a sum not exceeding Rs.50.00 as Liquidated Damages for every default, breach or furnishing, making, submitting, filling materially incorrect statement as may be fixed by the ENGINEER-IN-CHARGE and in the event of the CONTRACTOR's default continuing in this respect, the Liquidated Damages may be enhanced to Rs.50.00 per day for each day of default subject to a maximum of one percent of the estimated cost of the WORK put to tender. The ENGINEER-IN-CHARGE shall deduct such amount from bills or Contract Performance Security of the CONTRACTOR and credit the same to the Welfare Fund constitute under these acts. The decision of the ENGINEER-IN-CHARGE in this respect shall be final and binding.

104 Implementation of Apprentices Act, 1961:

- 104.1 The CONTRACTOR shall comply with the provisions of the Apprentices Act, 1961 and the Rules and Orders issued thereunder from time to time. If he fails to do so, his failure will be a breach of the CONTRACT and the ENGINEER-IN-CHARGE may, at his discretion, cancel the CONTRACT. The CONTRACTOR shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions, of the Act.

105 Contractor to indemnify the Employer:

- 105.1 The CONTRACTOR shall indemnify the EMPLOYER and every member, office and employee of the EMPLOYER, also the ENGINEER-IN-CHARGE and his staff against all actions, proceedings, claims, demands, costs and expenses whatsoever arising out of or in connection with the matters referred to in Clause 102.0 and elsewhere and all actions, proceedings, claims, demands, costs and expenses which may be made against the EMPLOYER for or in respect of or arising out of any failure by the CONTRACTOR in the performance of his obligations under the CONTRACT DOCUMENT. The EMPLOYER shall not be liable for or in respect of or arising out

of any failure by the CONTRACTOR in the performance of his obligations under the CONTRACT DOCUMENT. The EMPLOYER shall not be liable for or in respect of any demand or compensation payable by law in respect or in consequence of any accident or injury to any workmen or other person. In the employment of the CONTRACTOR or his SUB-CONTRACTOR the CONTRACTOR shall indemnify and keep indemnified the EMPLOYER against all such damages and compensations and against all claims, damages, proceedings, costs, charges and expenses whatsoever in respect thereof or in relation thereto.

- 105.2 PAYMENT OF CLAIMS AND DAMAGES: Should the EMPLOYER have to pay any money in respect of such claims or demands as aforesaid the amount so paid and the costs incurred by the EMPLOYER shall be charged to and paid by the CONTRACTOR and the CONTRACTOR shall not be at liberty to dispute or question the right of the EMPLOYER to make such payments notwithstanding the same, may have been made without the consent or authority or in law or otherwise to the contrary.
- 105.3 In every case in which by virtue of the provisions of Section 12, Sub-section (i) of workmen's compensation Act, 1923 or other applicable provision of Workmen Compensation Act or any other Act, the EMPLOYER is obliged to pay compensation to a workman employed by the CONTRACTOR in execution of the WORK, the EMPLOYER will recover from the CONTRACTOR the amount of the compensation so paid, and without prejudice to the rights of EMPLOYER under Section 12, Sub-section (2) of the said act, EMPLOYER shall be at liberty to recover such amount or any part thereof by deducting it from the Contract Performance Security or from any sum due to the CONTRACTOR whether under this CONTRACT or otherwise. The EMPLOYER shall not be bound to contest any claim made under Section 12, Sub-section (i) of the said act, except on the written request of the CONTRACTOR and upon his giving to the EMPLOYER full security for all costs for which the EMPLOYER might become liable in consequence of contesting such claim.

106 Health and sanitary arrangements for workers:

- 106.1 In respect of all labour directly or indirectly employed in the WORKS for the performance of the CONTRACTOR's part of this agreement, the CONTRACTOR shall comply with or cause to be complied with all the rules and regulations of the local sanitary and other authorities or as framed by the EMPLOYER from time to time for the protection of health and sanitary arrangements for all workers.
- 106.2 The CONTRACTOR shall provide in the labour colony all amenities such as electricity, water and other sanitary and health arrangements. The CONTRACTOR shall also provide necessary surface transportation to the place of work and back to the colony for their personnel accommodated in the labour colony.

SECTION-IX APPLICABLE LAWS AND SETTLEMENT OF DISPUTES

107 Arbitration:

- 107.1 Unless otherwise specified, the matters where decision of the Engineer-in-Charge is deemed to be final and binding as provided in the Agreement and the issues/disputes which cannot be mutually resolved within a reasonable time, all disputes shall be referred to arbitration by Sole Arbitrator. The Employer [GAIL (India) Ltd.] shall suggest a panel of three independent and distinguished persons to the bidder/contractor/supplier/buyer (as the case may be) to select any one among them to act as the Sole Arbitrator. In the event of failure of the other parties to select the Sole Arbitrator within 30 days from the receipt of the communication suggesting the panel of arbitrators, the right of selection of the sole arbitrator by the other party shall stand forfeited and the EMPLOYER (GAIL) shall have discretion to proceed with the appointment of the Sole Arbitrator. The decision of Employer on the appointment of the sole arbitrator shall be final and binding on the parties. The award of sole arbitrator shall be final and binding on the parties and unless directed/awarded otherwise by the sole arbitrator, the cost of arbitration proceedings shall be shared equally by the parties. The Arbitration proceedings shall be in English language and venue shall be New Delhi, India. Subject to the above, the provisions of (Indian) Arbitration & Conciliation ACT 1996 and the Rules framed there under shall be applicable. All matter relating to this contract are subject to the exclusive jurisdiction of the court situated in the state of Delhi. Bidders/suppliers/contractors may please note that the Arbitration & Conciliation Act 1996 was enacted by the Indian Parliament and is based on United Nations Commission on International Trade Law (UNCITRAL model law), which were prepared after extensive consultation with Arbitral Institutions and centers of International Commercial Arbitration. The United Nations General Assembly vide resolution 31/98 adopted the UNCITRAL Arbitration rules on 15 December 1976.
- 107.2 FOR THE SETTLEMENT OF DISPUTES BETWEEN GOVERNMENT DEPARTMENT AND ANOTHER AND ONE GOVERNMENT DEPARTMENT AND PUBLIC ENTERPRISE AND ONE PUBLIC ENTERPRISE AND ANOTHER THE ARBITRATION SHALL BE AS FOLLOWS: "In the event of any dispute or difference between the parties hereto, such dispute or difference shall be resolved amicably by mutual consultation or through the good offices of empowered agencies of the Government. If such resolution is not possible, then, the unresolved dispute or difference shall be referred to arbitration of an arbitrator to be nominated by Secretary, Department of Legal Affairs ("Law Secretary") in terms of the Office Memorandum No.55/3/1/75-CF, dated the 19th December 1975 issued by the Cabinet Secretariat (Department of Cabinet Affairs), as modified from time to time. The Arbitration Act 1940 (10 of 1940) shall not be applicable to the arbitration under this clause. The award of the Arbitrator shall be binding upon parties to the dispute. Provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to Law Secretary whose decision shall bind the parties finally and conclusively.

108 Jurisdiction:

- 108.1 The CONTRACT shall be governed by and constructed according to the laws in force in INDIA. The CONTRACTOR hereby submits to the jurisdiction of the Courts situated at Guwahati for the purposes of disputes, actions and proceedings arising out of the CONTRACT, the courts at Guwahati only will have the jurisdiction to hear and decide such disputed, actions and proceedings.

SECTION-X SAFETY CODES**109 General:**

- 109.1 CONTRACTOR shall adhere to safe construction practice and guard against hazardous, and unsafe working conditions and shall comply with EMPLOYER's safety rules as set forth herein. Prior to start of construction, CONTRACTOR will be furnished copies of EMPLOYER's "Safety Code" for information and guidance, if it has been prepared.

110 Safety regulations:

- 110.1 In respect of all labour, directly employed in the WORK for the performance of CONTRACTOR's part of this agreement, the CONTRACTOR shall at his own expense arrange for all the safety provisions as per safety codes of C.P.W.D., Indian Standards Institution. The Electricity Act, The Mines Act and such other acts as applicable.
- 110.2 The CONTRACTOR shall observe and abide by all fire and safety regulations of the EMPLOYER. Before starting construction work CONTRACTOR shall consult with EMPLOYER's safety Engineers or ENGINEER- IN-CHARGE and must make good to the satisfaction of the EMPLOYER any loss or damage due to fire to any portion of the work done or to be done under this agreement or to any of the EMPLOYER's existing property.

111 First aid and industrial injuries:

- 111.1 CONTRACTOR shall maintain first aid facilities for its employees and those of its SUB-CONTRACTOR.
- 111.2 CONTRACTOR shall make outside arrangements for ambulance service and for the treatment of industrial injuries. Names of those providing these services shall be furnished to EMPLOYER prior to start of construction and their telephone numbers shall be prominently posted in CONTRACTOR's field office.
- 111.3 All critical industrial injuries shall be reported promptly to EMPLOYER, and a copy of CONTRACTOR's report covering each personal injury requiring the attention of a physician shall be furnished to the EMPLOYER.

112 General rules:

- 112.1 Smoking within the battery area, tank farm or dock limits is strictly prohibited. Violators of the no smoking rules shall be discharged immediately.

113 Contractor's barricades:

- 113.1 CONTRACTOR shall erect and maintain barricades required in connection with his operation to guard or protect:-
- Excavations
 - Hoisting Areas.
 - Areas adjudged hazardous by CONTRACTOR's or EMPLOYER's inspectors.
 - EMPLOYER's existing property subject to damage by CONTRACTOR's Operations.
 - Rail Road unloading spots.
- 113.2 CONTRACTOR's employees and those of his SUB- CONTRACTOR's shall become acquainted with EMPLOYER's barricading practice and shall respect the provisions thereof.
- 113.3 Barricades and hazardous areas adjacent to, but not located in normal routes of travel shall be marked by red flasher lanterns at nights.

114 Scaffolding:

- 114.1 Suitable scaffolding should be provided for workmen for all works that cannot safely be done from the ground or from solid construction except such short period work as can be done safely from ladders. When a ladder is used an extra Mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying material as well, suitable footholds and handholds shall be provided on the ladder and the ladder shall be given an inclination not steeper than 1 in 4 (1 horizontal and 4 vertical).
- 114.2 Scaffolding or staging more than 4 metres above the ground or floor, swing suspended from an overhead support or erected with stationary support shall have a guard rail properly attached, bolted, braced and otherwise retarded at least one metre high above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
- 114.3 Working platform, gangway and stairway should be so constructed that they should not sag unduly or unequally and if the height of platform of the gangway or the stairway is more than 4 metres above the ground level or floor level, they should be closely boarded, should have adequate width and should be suitably fastened as in ii) above.
- 114.4 Every opening in the floor of a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing of railing whose minimum heights shall be 1 metre.
- 114.5 Safe-means of access shall be provided to all working platforms and other working places, every ladder shall be securely fixed. No portable single ladder shall be over 9 metres in length while the width between side

rails in rung ladder shall in no case be less than 30 cms for ladder upto and including 3 metres in length. For longer ladder this width should be increased 5mm for each additional foot of length. Uniform steps spacing shall not exceed 30 cms. Adequate precautions shall be taken to prevent danger from electrical equipment. No materials on any of the sites or work shall be so stacked or placed to cause danger or inconvenience to any person or public. The CONTRACTOR shall also provide all necessary fencing and lights to protect the workers and staff from accidents, and shall be bound to bear the expenses of defense of every suit, action or other proceeding of law that may be brought by any person for injury sustained owing to neglect of the above precautions and pay any damages and costs which may be awarded in any such suit or action or proceeding to any such person or which may with the consent of the CONTRACTOR be paid to compromise any claim by any such person.

115 Excavation and trenching:

115.1 All trenches 1.2 metres or more in depth, shall at all times be supplied with at least one ladder for each 50 metres length or fraction thereof. Ladder shall be extended from bottom of the trenches to atleast 1 metre above the surface of the ground. The sides of the trenches which are 1.5M in depth shall be stepped back to give suitable slope or securely held by timber bracing, so as to avoid the danger of sides to collapse. The excavated materials shall not be placed within 1.5 metres of the edge of the trench or half of the trench width whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or under-cutting shall be done.

116 Demolition/general safety:

116.1 Before any demolition work is commenced and also during the progress of the demolition work

- a) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
- b) No electric cable or apparatus which is liable to be a source of danger shall remain electrically charged.
- c) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.

116.2 All necessary personal safety equipment as considered adequate by the ENGINEER-IN-CHARGE, should be kept available for the use of the persons employed on the SITE and maintained in condition suitable for immediate use, and the CONTRACTOR shall take adequate steps to ensure proper use of equipment by those concerned.

- a) Workers employed on mixing asphaltic materials, cement and lime mortars shall be provided with protective footwear and protective gloves.
- b) Those engaged in white washing and mixing or stacking or cement bags or any material which are injurious to the eyes be provided with protective goggles.
- c) Those engaged in welding and cutting works shall be provided with protective face & eye shield, hand gloves, etc.
- d) Stone breakers shall be provided with protective goggles and protective clothing and seated at sufficiently safe intervals.
- e) When workers are employed in sewers and manholes, which are in use, the CONTRACTOR shall ensure that the manhole covers are opened and are ventilated atleast for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or
- f) board to prevent accident to the public.
- g) The CONTRACTOR shall not employ men below the age of 18 years and women on the work of painting with products containing lead in any form. Wherever men above the age of 18 years are employed on the work of lead painting, the following precautions should be taken.

- 1) No paint containing lead or lead product shall be used except in the form of paste or readymade paint.
- 2) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scrapped.
- 3) Overalls shall be supplied by the CONTRACTOR to the workmen and adequate facilities shall be provided to enable the working painters to wash them during and on cessation of work.

116.3 When the work is done near any place where there is risk of drowning, all necessary safety equipment should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.

116.4 Use of hoisting machines and tackles including their attachments, anchorage and supports shall conform to the following standards or conditions:

- a. These shall be of good mechanical construction, sound materials and adequate strength and free from patent defect and shall be kept in good working order.
- b. Every rope used in hoisting or lowering materials or as means of suspension shall be of durable quality and adequate strength and free from patent defects.
- b) Every crane driver or hoisting appliance operator shall be properly qualified and no person under the age of 21 years should be in charge of any hoisting machine including any scaffolding, winch or give signals to the operator.
- c) In case of every hoisting machine and of every chain ring hook, shackle, swivel, and pulley block used in hoisting or lowering or as means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gears referred to above shall be plainly marked with the safe working

load of the conditions under which it is applicable and the same shall be clearly indicated. No part of any machine or any gear referred to above in this paragraph shall be loaded beyond safe working load except for the purpose of testing.

- d) In case of departmental machine, the safe working load shall be notified by the ENGINEER-IN-CHARGE. As regards CONTRACTOR's machines, the CONTRACTOR shall notify the safe working load of the machine to the ENGINEER-IN-CHARGE whenever he brings any machinery to SITE of WORK and get it verified by the Engineer concerned.
 - e) Motors, gears, transmission lines, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safeguards. Hoisting appliances should be provided with such means as to reduce to minimum the accidental descent of the load, adequate precautions should be taken to reduce the minimum risk of any part or parts of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energised, insulating mats, wearing apparel, such as gloves, sleeves, and boots as may be necessary should be provided. The workers shall not wear any rings, watches and carry keys or other materials which are good conductors of electricity.
- 116.5 All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe conditions and no scaffolds, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near places of work.
- 116.6 These safety provisions should be brought to the notice of all concerned by displaying on a notice board at a prominent place at the work-spot. The person responsible for compliance of the safety code shall be named therein by the CONTRACTOR.
- 116.7 To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangements made by the CONTRACTOR shall be open to inspection by the Welfare Officer, ENGINEER-IN-CHARGE or safety Engineer of the Administration or their representatives.
- 116.8 Notwithstanding the above clauses there is nothing in these to exempt the CONTRACTOR for the operations of any other Act or rules in force in the Republic of India. The work throughout including any temporary works shall be carried out in such a manner as not to interfere in any way whatsoever with the traffic on any roads or footpath at the site or in the vicinity thereto or any existing works whether the property of the Administration or of a third party. In addition to the above, the CONTRACTOR shall abide by the safety code provision as per C.P.W.D. Safety code and Indian Standard Safety Code from time to time.

117 Care in handling inflammable gas:

- 117.1 The CONTRACTOR has to ensure all precautionary measures and exercise utmost care in handling the inflammable gas cylinder/inflammable liquids/paints etc. as required under the law and/or as advised by the fire Authorities of the EMPLOYER.

118 Temporary combustible structures:

- 118.1 Temporary combustible structures will not be built near or around work site.

119 Precautions against fire:

- 119.1 The CONTRACTOR will have to provide Fire Extinguishers, Fire Buckets and drums at worksite as recommended by ENGINEER-IN-CHARGE. They will have to ensure all precautionary measures and exercise utmost care in handling the inflammable gas cylinders/ inflammable liquid/ paints etc. as advised by ENGINEER-IN-CHARGE. Temporary combustible structures will not be built near or around the work-site.

120 Explosives:

- 120.1 Explosives shall not be stored or used on the WORK or on the SITE by the CONTRACTOR without the permission of the ENGINEER-IN-CHARGE in writing and then only in the manner and to the extent to which such permission is given. When explosives are required for the WORK they will be stored in a special magazine to be provided at the cost of the CONTRACTOR in accordance with the Explosives Rules. The CONTRACTOR shall obtain the necessary licence for the storage and the use of explosives and all operations in which or for which explosives are employed shall be at sole risk and responsibility of the CONTRACTOR and the CONTRACTOR shall indemnify the EMPLOYER against any loss or damage resulting directly or indirectly therefrom.

121 Mines act:

- 121.1 SAFETY CODE: The CONTRACTOR shall at his own expense arrange for the safety provisions as required by the ENGINEER-IN-CHARGE in respect of all labour directly employed for performance of the WORKS and shall provide all facilities in connection therewith. In case the CONTRACTOR fails to make arrangements and provides necessary facilities as aforesaid, the ENGINEER-IN-CHARGE shall be entitled to do so and recover the costs thereof from the CONTRACTOR.
- 121.2 Failure to comply with Safety Code or the provisions relating to report on accidents and to grant of maternity benefits to female workers shall make the CONTRACTOR liable to pay Company Liquidated Damages an amount not exceeding Rs.50/- for each default or materially incorrect statement. The decision of the ENGINEER-IN-CHARGE in such matters based on reports from the Inspecting Officer or from representatives of ENGINEER-IN-CHARGE shall be final and binding and deductions for recovery of such Liquidated Damages may be made from any amount payable to the CONTRACTOR from all the provisions of the Mines Act, 1952 or any statutory modifications or re-enactment thereof the time being in force and any Rules and Regulations made there under in respect of all the persons employed by him under this CONTRACT and shall indemnify the EMPLOYER from and against any claim under the Mines Act or the rules and regulations framed there under by or on behalf of any persons employed by him or otherwise.

122 Preservation of place:

- 122.1 The CONTRACTOR shall take requisite precautions and use his best endeavors to prevent any riotous or unlawful behaviour by or amongst his worker and others employed or the works and for the preservation of peace

and protection of the inhabitants and security of property in the neighborhood of the WORK. In the event of the EMPLOYER requiring the maintenance of a Special Police Force at or in the vicinity of the site during the tenure of works, the expenses thereof shall be borne by the CONTRACTOR and if paid by the EMPLOYER shall be recoverable from the CONTRACTOR.

123 Outbreak of infectious diseases:

123.1 The CONTRACTOR shall remove from his camp such labour and their facilities who refuse protective inoculation and vaccination when called upon to do so by the ENGINEER-IN-CHARGE's representative. Should Cholera, Plague or other infectious diseases break out the CONTRACTOR shall burn the huts, beddings, clothes and other belongings or used by the infected parties and promptly erect new huts on healthy sites as required by the ENGINEER-IN-CHARGE failing which within the time specified in the Engineer's requisition, the work may be done by the EMPLOYER and the cost thereof recovered from the CONTRACTOR.

124 Use of intoxicants:

124.1 The unauthorised sale of spirits or other intoxicants, beverages upon the work in any of the buildings, encampments or tenements owned, occupied by or within the control of the CONTRACTOR or any of his employee is forbidden and the CONTRACTOR shall exercise his influence and authority to the utmost extent to secure strict compliance with this condition. In addition to the above, the CONTRACTOR shall abide by the safety code provision as per C.P.W.D. safety code and Indian Standard Code framed from time to time.

PROFORMA FOR CONTRACT AGREEMENT**LOA No.: BCPL /** _____**Dated:** _____

Contract Agreement for the work of ----- of Brahmaputra Cracker & Polymer Ltd. (BCPL) made on ----- between (Name and Address) -----, hereinafter called the "CONTRACTOR" (which term shall unless excluded by or repugnant to the subject or context include

its successors and permitted assignees) of the one part and BCPL hereinafter called the "EMPLOYER" (which term shall, unless excluded by or repugnant to the subject or context include its successors and assignees) of the other part.

WHEREAS

A. The EMPLOYER being desirous of having provided and executed certain work mentioned, enumerated or referred to in the Tender Documents including Letter Inviting Tender, General Tender Notice, General Conditions of Contract, Special Conditions of Contract, Specifications, Drawings, Plans, Time Schedule of completion of jobs, Schedule of Rates, Agreed Variations, other documents has called for Tender.

B. The CONTRACTOR has inspected the SITE and surroundings of WORK specified in the Tender Documents and has satisfied himself by careful examination before submitting his tender as to the nature of the surface, strata, soil, sub-soil and ground, the form and nature of site and local conditions, the quantities, nature and magnitude of the work, the availability of labour and materials necessary for the execution of work, the means of access to SITE, the supply of power and water thereto and the accommodation he may require and has made local and independent enquiries and obtained complete information as to the matters and thing referred to, or implied in the tender documents or having any connection therewith and has considered the nature and extent of all probable and possible situations, delays, hindrances or interferences to or with the execution and completion of the work to be carried out under the CONTRACT, and has examined and considered all other matters, conditions and things and probable and possible contingencies, and generally all matters incidental thereto and ancillary thereof affecting the execution and completion of the WORK and which might have influenced him in making his tender.

C. The Tender Documents including the Notice Letter Inviting Tender, General Conditions of Contract, Special Conditions of Contract, Schedule of Rates, General Obligations, SPECIFICATIONS, DRAWINGS, PLANS, Time Schedule for completion of Jobs, Letter of Acceptance of Tender and any statement of agreed variations with its enclosures copies of which are hereto annexed form part of this CONTRACT though separately set out herein and are included in the expression "CONTRACT" wherever herein used.

AND WHEREAS The EMPLOYER accepted the Tender of the CONTRACTOR for the provision and the execution of the said WORK at the rates stated in the schedule of quantities of the work and finally approved by EMPLOYER (hereinafter called the "Schedule of Rates") upon the terms and subject to the conditions of CONTRACT.

NOW THIS AGREEMENT WITNESSETH AND IT IS HEREBY AGREED AND DECLARED AS FOLLOWS:-

1. In consideration of the payment to be made to the CONTRACTOR for the WORK to be executed by him, the CONTRACTOR hereby covenants with EMPLOYER that the CONTRACTOR shall and will duly provide, execute and complete the said work and shall do and perform all other acts and things in the CONTRACT mentioned or described or which are to be implied there from or may be reasonably necessary for the completion of the said WORK and at the said times and in the manner and subject to the terms and conditions or stipulations mentioned in the contract.

2. In consideration of the due provision execution and completion of the said WORK, EMPLOYER does hereby agree with the CONTRACTOR that the EMPLOYER will pay to the CONTRACTOR the respective amounts for the WORK actually done by him and approved by the EMPLOYER at the Schedule of Rates and such other sum payable to the CONTRACTOR under provision of CONTRACT, such payment to be made at such time in such manner as provided for in the CONTRACT.

AND

3. In consideration of the due provision, execution and completion of the said WORK the CONTRACTOR does hereby agree to pay such sums as may be due to the EMPLOYER for the services rendered by the EMPLOYER to the CONTRACTOR, such as power supply, water supply and others as set for in the said CONTRACT and such other sums as may become payable to the EMPLOYER towards the controlled items of consumable materials or towards loss, damage to the EMPLOYER'S equipment, materials construction plant and machinery, such payments to be made at such time and in such manner as is provided in the CONTRACT. It is specifically and distinctly understood and agreed between the EMPLOYER and the CONTRACTOR that the CONTRACTOR shall have no right, title or interest in the SITE made available by the EMPLOYER for execution of the works or in the building, structures or work executed on the said SITE by the CONTRACTOR or in the goods, articles, materials etc., brought on the said SITE (unless the same specifically belongs to the CONTRACTOR) and the CONTRACTOR shall not have or deemed to have any lien whatsoever charge for unpaid bills will not be entitled to assume or retain possession or control of the SITE or structures and the EMPLOYER shall have an absolute and unfettered right to take full possession of SITE and to remove the CONTRACTOR, their servants, agents and materials belonging to the CONTRACTOR and lying on the SITE. The CONTRACTOR shall be allowed to enter upon the

SITE for execution of the WORK only as a licensee simpliciter and shall not have any claim, right, title or interest in the SITE or the structures erected thereon and the EMPLOYER shall be entitled to terminate such license at any time without assigning any reason. The materials including sand, gravel, stone, loose, earth, rock etc., dug up or excavated from the said SITE shall, unless otherwise expressly agreed under this CONTRACT, exclusively belong to the EMPLOYER and the CONTRACTOR shall have no right to claim over the same and such excavation and materials should be disposed off on account of the EMPLOYER according to the instruction in writing issued from time to time by the ENGINEER-IN-CHARGE In Witness whereof the parties have executed these presents in the day and the year first above written.

Signed and Delivered for and behalf
of the CONTRACTOR
(NAME OF THE CONTRACTOR)

Signed and Delivered for and behalf
of the EMPLOYER
BRAHMAPUTRA CRACKER & POLYMER LIMITED

Date : _____

Date : _____

Place: _____

Place: _____

IN PRESENCE OF TWO WITNESSES

1. _____

1. _____

2. _____

2. _____

PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT**(To be stamped in accordance with the Stamp Act)**

Ref.:-----

Bank Guarantee

No.:-----

Date-----

To

BRAHMAPUTRA CRACKER & POLYMER LTD.
 "MAIN FIRE STATION BUILDING" LEPETKATA,
 NH-37, P.O. LEPETKATA, DIBRUGARH,
 ASSAM, PIN – 786 006

Dear Sir (s),

In accordance with Letter inviting Tender under your reference No.-----

M/s-----having their Registered/Head Office at-----
 -----(hereinafter called the Bidder) wish to participate in the said tender for-----

As an irrevocable Bank Guarantee against Earnest Money Deposit for an amount of -----is required to be submitted by the Bidder as a condition precedent for participation in the said Tender which amount is liable to be forfeited on the happening of any contingencies mentioned in the Tender Document.

We, the -----Bank at-----

having our Head Office -----

(Local Address) guarantee and undertake to pay immediately on demand by Brahmaputra Cracker & Polymer Limited., the amount -----without any reservation, protest, demur and recourse. Any such demand made by GAIL, shall be conclusive and binding on us irrespective of any dispute or difference raised by the Bidder.

This guarantee shall be irrevocable and shall remain, valid upto----- (This date should be 180 days (One hundred & eighty days) after the date finally set out for closing of tender). If any further extension of this guarantee is required the same shall be extended to such required period on receiving instructions from M/s----- on whose behalf this guarantee is issued.

In Witness whereof the Bank, through its authorized officer, has set its hand and stamp on this -----
 -----day of -----200 ----- at -----

WITNESS:

(SIGNATURE)

(SIGNATURE)

(NAME)

(NAME)

(OFFICIAL ADDRESS)

Designation with Bank Stamp

Attorney as per

Power of Attorney No.
 Date

:_____

**PROFORMA FOR BANK GUARANTEE FOR SECURITY DEPOSIT
(ON NON-JUDICIAL PAPER OF APPROPRIATE VALUE)**

To:

Brahmaputra Cracker & Polymer Ltd.
"Main Fire Station Building", NH-37, P.O. Lepetkata,
Dibrugarh, Assam, PIN – 786006

Dear Sirs,

M/s _____ have been awarded the work of _____ for Brahmaputra Cracker & Polymer Limited, Dibrugarh – 786006, Assam. The Contracts conditions provided that the CONTRACTOR shall pay a sum of Rs----- (Rupees as Initial / full Security Deposit in the form therein mentioned). The form of payment of Security Deposit includes guarantee executed by Nationalized Bank, undertaking full responsibility to indemnify Brahmaputra Cracker & Polymer Limited, in case of default.

The said-----has approached us and at their request and in consideration of the premises we having our office at ----- have agreed to give such guarantee as hereinafter mentioned.

1. We _____ hereby undertake and agree with you that if default shall be made by M/s ----- in performing any of the terms and conditions of the tender or in payment of any money payable to Brahmaputra Cracker & Polymer Limited, we shall on demand pay to you in such manner as you may direct the said amount of Rupees----- only or such portion thereof not exceeding the said sum as you may from time to time require.
2. You will have the full liberty without reference to us and without affecting this guarantee, postpone for any time or from time to time the exercise of any of the powers and rights conferred on you under the contract with the said -----and to enforce or to forbear from endorsing any powers or rights or by reason of time being given to the said -----which under law relating to the sureties would but for provision have the effect of releasing us.
3. Your right to recover the said sum of Rs----- (Rupees -----) from us in manner aforesaid will not be affected or suspended by reason of the fact that any dispute or disputes have been raised by the said M/s -----and/or that any dispute or disputes are pending before any officer, tribunal or court.
4. The guarantee herein contained shall not be determined or affected by the liquidation or winding up dissolution or changes of constitution or insolvency of the save said but shall in all respects and for all purpose be binding and operative until payment of all money due to you in respect of such liabilities is paid.
5. This guarantee shall be irrevocable and shall remain valid upto-----If any further extension of this guarantee is required the same shall be extended to such required period on receiving instructions from M/s----- on whose behalf this guarantee is issued.
6. We have power to issue this guarantee in your favour under Memorandum and Articles of Association and the undersigned has full power to do under the Power of Attorney dated ----- granted to him by the Bank.

Yours faithfully,

By its Constituted Attorney Signature of a
person duly authorized to sign on behalf of
the Bank.

SPECIAL CONDITIONS OF THE CONTRACT**SCC: Part -A**

JOB: Operation & Maintenance Works towards entire Construction Power Supply (CPS) System & Maintenance of Air Conditioner at BCPL, Lepetkata Site & at BCPL Township, Barbaruah, Dibrugarh

TENDER NO: BCPL/DIB/C&P/SER/20110126/R/DBK

1.0 GENERAL:

- 1.1 *The **Special Condition of Contract** shall be read in conjunction with the General Conditions of Contract, Schedule of rates, specifications, drawings and any other documents forming part of contract, wherever the context so requires. Notwithstanding the sub-division of the documents into these separate sections and volumes, every part of each shall be deemed to be supplementary to and complementary of every other part and shall be read with and into the CONTRACT so far as it may be practicable to do so.*
- 1.2 *Where any portion of the “**General Condition of Contract**” is repugnant to or at variance with any provisions of the Special Conditions of Contract, unless a different intention appears, the provisions of the Special Conditions of Contract shall be deemed to over-ride the provisions of the “**General Conditions of Contract**” and shall to the extent of such repugnancy, or variations, prevail.*
- 1.3 *Wherever it is mentioned in the specifications that the CONTRACTOR shall perform certain WORK or provide certain facilities, it is understood that the CONTRACTOR shall do so at his cost and the VALUE OF CONTRACT shall be deemed to have included cost of such performance and provisions, so mentioned.*
- 1.4 *The materials, design, and workmanship shall satisfy the relevant INDIAN STANDARDS, the JOB SPECIFICATIONS contained herein and CODES referred to. Where the job specification stipulate requirements in addition to those contained in the standard codes and specifications, these additional requirements shall also be satisfied.*

The intending bidder shall be deemed to have visited the site. Non-familiarity with site condition and unawareness of General Condition of Contract will not be considered a reason either for extra claim or for not carrying out work in strict conformity with drawings and specifications.

2.0 LOCATION:

BCPL, PLANT AT LEPETKATA, DBRUGARH, ASSAM

3.0 SCOPE OF WORK:

The Scope of Work shall be as per Special Conditions of Contract (SCC) **Part-B**.

4.0 TIME OF COMPLETION / PERIOD OF CONTRACT:

The Time of Completion/Period of Contract shall be 02 year and as per Special Conditions of Contract (SCC) **Part-B**.

The work shall be executed strictly as per time Schedule given in Tender Document. The period of completion given includes the time required for mobilization as well as testing, rectifications, if any, re-testing and completion in all respects to the entire satisfaction of the Engineer-in-Charge.

5.0 TERMS OF PAYMENT:

Payment will normally be made within 15 days of submission of proper bills to **Engineer-in-Charge** after applicable deduction of Income Tax and any other taxes and duties.

Other terms and conditions related to Payment terms are specified in **SCC Part B**.

6.0 **EARNEST MONEY:**

The bidder must deposit the earnest money as given in the letter/notice inviting tenders failing which the tender is liable to be rejected. Earnest Money can be paid by way of Demand Draft drawn on any Scheduled/Nationalized Bank in favor of “**M/s. Brahmaputra Crackers & Polymers Limited**” payable at **STATE BANK OF INDIA, DIBRUGARH, ASSAM.**

Alternatively, Earnest Money may also be submitted in the form of Bank Guarantee from any Nationalized/Schedule Bank of India. The Bank Guarantee so furnished by the bidder shall be in the proforma prescribed by the OWNER attached with the Tender document. No interest shall be paid by the OWNER on the Earnest Money deposited by the bidder. The Bank Guarantee furnished in lieu of Earnest Money shall be kept valid for a period of **(6) SIX MONTHS** from the date of opening of tender.

BCPL will refund the Earnest Money of the unsuccessful bidders directly to the bidders within a reasonable period of time. Correspondence in this regard may be addressed to BCPL directly by the BIDDERS.

7.0 **INCOME TAX / SALES TAX / WORKS CONTRACT TAX:**

Income Tax deduction shall be made from all payments to the contractors as per rules and regulation in force in accordance with the Income Tax Act prevailing from time to time. Sales Tax, Works Contract Tax and other duties/ levies, as applicable shall be borne by the contractor.

The BCPL will issue the necessary certificate for income tax deduction at source, however, the contractor has to submit detail of their **Permanent Account No. (PAN)** before issue of such certificate. However, if the contractor has not been allotted PAN and has applied for the same to Income Tax department / the authorized agency nominated by Income Tax department, contractor shall submit the copy of application filed for allotment of PAN No. In absence of any of these documents, no TDS certificate shall be issued by BCPL.

Similarly, in case of Works Contract (involving both supply of material and services) Tax will be deducted at source by BCPL towards W. C. Tax at the rate applicable from time to time (presently 4%) and issue necessary certificate to this effect.

8.0 **SERVICE TAX:**

The Quoted rates should be inclusive of all taxes & duties applicable during the contract period except Service Tax and Education Cess thereon. Service Tax and Cess thereon shall be paid extra if applicable on submission of documentary evidence/invoice(s).

9.0 **SECURITY DEPOSIT:**

9.1 Security deposit @ 7.5% of Awarded Contract Value has to be deposited within 10 (ten) days of receipt of LOA/LOI by the contractor. EMD deposited with the tender shall be adjusted towards security deposit/ISD provided it is deposited by Demand Draft/Bankers Cheque.

9.2 No interest shall be payable by the Company to the contractor for the amount of Security deposit.

9.3 Contractor can furnish the total security deposit amount through bank guarantee from any nationalized /Schedule bank in prescribed proforma which shall be valid for 90 days beyond completion of the job or expiry of Defect Liability Period whichever is applicable.

9.4.1 Security Deposit shall be refunded within 90 days after the completion of work or Defect Liability Period whichever is applicable.

10.0 TECHNICAL SPECIFICATION:

As enumerated in Special Conditions of Contract / Scope of Work / Attached Drawing / Details / Schedule of Rates.

11.0 TESTS AND INSPECTION:

11.1 The Contractor shall carry out the various tests as enumerated in the technical specifications of this tender document and the technical documents that will be furnished to him during the performance of the work and no separate payment shall be made unless otherwise specified in schedule of rates.

11.2 All the tests either on the field or at outside laboratories concerning the execution of the work and supply of materials by the Contractor shall be carried out by Contractor at his own cost.

11.3 The Contractor shall provide for purposes of inspection access ladders, lighting and necessary instruments at his own cost for inspection work.

11.4 Any work not conforming to execution drawings, specifications or codes shall be rejected forthwith and the Contractor shall carryout the necessary rectification at his own cost.

11.5 All results of inspection and tests will be recorded in the inspection reports, Proforma of which will be approved by the Engineer-in-Charge. These reports shall form part of the completion documents.

11.6 For materials supplied by Owner, Contractor shall carryout the tests, if required by the Engineer-in-Charge, and the cost of such tests shall be reimbursed by the owner at actual to the Contractor on production of documentary evidence. Contractor shall inspect carefully all equipment before receiving them from Owner for installation purposes. Any damage or defect noticed shall be brought to the notice of Engineer-in-Charge.

11.7 Inspection and acceptance of work shall not relieve the Contractor from any of his responsibilities under this Contract.

12.0 MEASUREMENT OF WORK:

12.1 Measurement of works shall be made in the units mentioned in the Schedule of Rates as per details given in Technical/Standards specifications.

12.2 Wherever details are not available or inadequate in the execution drawings, physical measurements will be taken by the contractor in the presence of the representative of the Engineer-in-Charge. In such cases payment will be made on actual measurements.

13.0 DEFECT LIABILITY PERIOD:

The defect liability period shall be as per “**SCC-Part B**”

14.0 CONSTRUCTION EQUIPMENT AND SITE ORGANIZATION:

14.1 The Contractor shall without prejudice to his overall responsibility to execute and complete the work as per specifications and time schedule, progressively deploy adequate equipment and tools and

14.2 Tackles and augment the same as decided by the Engineer-in-Charge depending on the exigencies of the work so as to suit the work/construction schedule without any additional cost to owner. The bidder shall submit a list of construction equipment he proposes to deploy for the subject work along with deployment schedule. No Construction Equipment shall be supplied by the Owner.

14.3 Subject to the provisions in the tender document and without prejudice to Contractor's liabilities and responsibilities to provide adequate qualified and skilled personnel on the work, contractor shall deploy site organization and augment the same as decided by the Engineer-in-Charge depending on the exigencies of work, without any additional cost to owner. The bidder shall submit the details of minimum site organization proposed by him.

15.0 MOBILIZATION ADVANCE (M.A.):

No mobilization advance is payable for this work.

16.0 COMPENSATION FOR EXTENDED STAY:

No compensation for extended stay is payable to contractor.

17.0 ABNORMALLY HIGH RATED ITEMS (AHR ITEMS):

In items rate contract where the quoted rates for the items exceed 50% of the owners/estimated rates, such items will be considered as Abnormally High Rates Items (AHR) and payment of AHR items beyond the SOR stipulated quantities shall be made at the least of the following rates:

(I) Rates as per SOR, quoted by the contractor.

(II) Rate of the item, which shall be derived as follows:

- a) Based on rates of machine and labor as available from the contract (which includes contractor's supervision, profit, overheads and other expenses).
- b) In case rates are not available in the contract, rates will be calculated based on prevailing market rates of machine, material and labor plus 10% to cover contractor's supervision profit, overhead & other expenses.

18.0 MISCELLANEOUS:

All obligations arising of labor deployment labor laws to meet the necessary statutory requirement would solely lie on the contractor. Contractor would be solely responsible for safety and security of manpower and materials.

19.0 SUBMISSION OF TENDER DOCUMENTS:

Over-writing should be avoided. Any overwriting or cutting should be signed by the bidder. All copies of tender documents along with drawings should be signed and submitted by the bidder.

20.0 SCHEDULE OF RATES:

20.1 The rates quoted by the bidder shall remain firm for any variation and will assume to be inclusive of all taxes & duties excluding Service Tax & Cess thereon.

20.2 No escalation of whatsoever nature shall be paid to the contractor for the entire Contract Period.

21.0 COMPENSATION FOR DELAY:

21.1 In case of delay in mobilization or in completion of work in all respects and to the full satisfaction of Engineer-In-Charge, the Engineer-In-Charge may at his discretion impose a penalty at the rate of 0.5% per week or part thereof limited to 5% of the contract value.

21.2 Alternatively, in case the Engineer-In-Charge feels that the progress of work is dissatisfactory and the work may be delayed beyond the scheduled or contractual completion date, he may at his

discretion get the work done through other agency at the risk and cost of the contractor without prejudice to other rights available to owner under the contract. The decision of the Engineer-In-Charge shall be final and binding in this regard.

22.0 TERMINATION OF CONTRACT:

The Owner/ Engineer-in-Charge reserve the right to terminate the contract on giving one-week notice without assigning any reason.

23.0 CONTRACT AGREEMENT:

If the work is awarded the contractor shall enter into an agreement with BCPL in the prescribed Performa within 10 days of the issue of LOA/LOI whichever is earlier. The agreement shall be executed on non-judicial stamp paper of RS. 100/- .The cost of stamp paper shall be borne by the contractor. The format of agreement can be obtained from the office of the Sr. Manager (C&P), BCPL, DIBRUGARH, ASSAM.

24.0 SUPERVISION OF WORK:

Contractor or his authorized representative shall be available at site all times, during the progress of the work.

25.0 CLEARANCE OF SITE:

25.1 As a part of the contract the contractor shall completely remove all temporary/disposable materials, while execution of work at his own cost and initiative and dispose off the same as directed by Engineer-in-charge.

25.2 The works will not be considered as complete and taken over by the owner, until all the temporary works, labor and staff colonies etc. constructed are removed and the work site cleared to the satisfaction of the Engineer-in-charge, surplus materials and rubbish is cleared off the site completely and the work shall have been measured by the Engineer-in-charge whose measurement shall be binding and conclusive.

25.3 If the contractor fails to comply with the requirements of this clause on or before the date fixed for the completion of the work, the Engineer-in-charge may at the expenses of the contractor remove such, surplus materials and rubbish and disposal off the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall forthwith pay the amount of all expenses as incurred and shall have no claim in respect of any such surplus materials as aforesaid except for any sum actually realized by the sale thereof.

26.0 ADHERENCE TO SAFETY REGULATIONS:

Contractor shall ensure that all safety precautions required one observed at all times during the execution of the job.

27.0 NUISANCE:

The contractor or his representative shall not at any time cause any nuisance on the site or do anything which shall cause unnecessary disturbance to the owners or tenants or occupants or their properties near the site and to the public generally.

28.0 OWNER NOT BOUND BY PERSONAL REPRESENTATION:

The contractor shall not be entitled to any increases on the schedule of rates or any other right or claim whatsoever by reason of any representation, explanation statement or alleged representation explanation statement or alleged representation, promise or guarantees given or called to have been given to him by any person.

29.0 CARE OF WORKS:

From the commencement to completion of the work, the contractor shall take full responsibility for the care for all works including all temporary works any in case any damages, loss or injury shall happen to the work or to a part thereof or to any temporary works from any reason.

30.0 DEFENCE OF SUITS:

If any action in court is brought against the owner or an officer or agent of the owner, for the failure, omission or neglect on the part of the contractor to perform any acts, matters, convenient or things under the contract or damage or injury caused by the alleged omission or negligence on the part of the contractor, his agents, representative or his subcontractors or in connection with any claim based on lawful demand of sub-contractor, shall in such cases indemnify and keep the owner and/or their representatives harmless from all lesson, damages, expenses or decrease arising out of such action.

31.0 ARBITRATION CLAUSE:

31.1 All disputes or differences, whatsoever, arising between the parties hereto pertaining to any part of the contract including its execution or concerning the WORKS or maintenance thereof this CONTRACT or to the rights or to liabilities of the parties or arising out or in relation thereto whether during or after completion of the CONTRACT or whether before or after determination, foreclosure or breach of the CONTRACT (other than those in respect of which the decision of any person is by the CONTRACT expressed to be final and binding) shall after written notice by either party to the CONTRACT be referred for adjudication to a sole arbitrator to be appointed by BCPL as hereinafter provided.

31.2 For the purpose of appointing the Sole Arbitrator referred to above, the Appointing Authority will send within thirty days of receipt of the notice, to the CONTRACTOR a panel of three names which are not connected with the work in question.

31.3 The CONTRACTOR shall on receipt of the names as aforesaid, select any one of the persons named to be appointed as a sole Arbitrator and communicate his names to he Appointing Authority within thirty days of receipt of names. The Appointing Authority shall thereupon without any delay appoint the said person as the sole arbitrator. If the CONTRACTOR fails to communicate his choice for appointment of and Arbitrator, the Appointing Authority shall do it on expiry of 30 days.

31.4 If the Arbitrator so appointed is unable to or unwilling to act or resigns or vacates his office due to any reason whatsoever, another sole Arbitrator shall be appointed as aforesaid.

31.5 The WORK under the CONTRACT shall however, continue during the Arbitration proceedings and no payment due or payable to the CONTRACTOR shall be withheld on account of such proceedings.

31.6 The venue of arbitration shall be Guwahati.

31.7 The award of the Arbitrator shall be final and binding on both the parties.

31.8 Subject to aforesaid the provisions of the Indian Arbitration and Conciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under, and for the time being in force, shall apply to the arbitration proceeding under this clause.

32.0 JURISDICTION:

The CONTRACT shall be governed by and constructed according to the laws in force in INDIA. The CONTRACTOR hereby submits to the jurisdiction of the Courts situated at GUWAHATI for the purpose of disputes, actions and proceedings arising out of the CONTRACT.

33.0 SUMMARY TERMINATION OF CONTRACT DUE TO SUBMISSION OF FALSE DOCUMENT:

- 33.1 Bidders are required to furnish the complete and correct information/documents required for evaluation of their bids. If the information/documents forming basis of evaluation is found to be false/forged, the same shall be considered adequate ground for rejection of the Bids and forfeiture of Earnest Money Deposit.
- 33.2 In case, the information/document furnished by the contractor forming basis of evaluation of his bid is found to be false/forged after the award of the contract, BCPL shall have full right to terminate the contract and get the remaining job executed at the risk & cost of such contractor without any prejudice to other rights available to BCPL under the contract such as forfeiture of Security Deposit, withholding of payments etc.
- 33.3 In case the issue of submission of false document comes to the notice after execution of the work, BCPL shall have full right to forfeit any amount due to the contractor along with forfeiture of Security Deposit furnished by the contractor.
- 33.4 Further, such contractor/bidder shall be blacklisted for future business with BCPL.

34.0 SUBMISSION OF ATTESTED COPIES OF CERTIFICATES/DOCUMENTARY EVIDENCES

- 34.1 Further, the bidders are required to furnish the attested copy (ies) of Power of Attorney/Partnership Deed.
- 34.2 Bidders are required to furnish the attested copy (ies) of documentary evidence in support of meeting the Bidder's Eligibility Criteria.
- 34.3 Non-submission of the attested copies of the certificates/documents will render they bid non-responsive and liable for rejection.

35.0 SUB LETTING OF WORK:

No contractor shall sub let or assign any work in part or whole to any firm, individual, partnership firm, Pvt. Ltd., Company, Proprietorship firm etc without the prior written permission of BCPL. In case the contractor sub lets or assigns the contract in part or whole without the prior written permission of BCPL and any claim referred by any firm / individual to BCPL stating that the main contractor has not paid his or their dues/ payments, in that circumstances, BCPL shall without assigning any reasons, withhold from the payments of contractor, the amount equivalent to the claim amount of sub contractor/ individual/ vendor (s) etc. The same shall be released to the contractor after contractor and labour/ supplier/ sub contractor jointly submits a joint written settlement to BCPL.

36.0 AFFIDAVIT:

The bidder shall submit an affidavit duly notarized to the effect "that the document submitted by him are true and genuine and in case of any discrepancy noticed or observed at any stage the bidder shall be personally responsible not only for the damages or loss to BCPL, but also for criminal proceedings under the relevant laws".

3.5

SPECIAL CONDITIONS OF CONTRACT: (PART-B)

SUBJECT: Operation & Maintenance of Entire Construction Power Supply (CPS) System & Maintenance of Air Conditioners at BCPL, Lepetkata Site & at BCPL Township, Borbaruah, Dibrugarh

1.0 GENERAL INFORMATION:

The special conditions of contract shall be read in conjunction with the general conditions of contract (GCC), schedule of rates, scope of work and any other document forming part of contract, wherever context so requires. Notwithstanding, the sub clauses of the documents in to separate sections every part of each shall be deemed to be supplementary of every other part and shall be read with and into the contract so far as it may be practicable to do so. Where any portion of the special conditions of the contract (SCC) is repugnant to or at variance with any provision of the general conditions of the contract then provision of SCC shall be deemed to override the provisions of the general conditions of contract (GCC) only to the extent of such repugnance or variations. In case of any contradictions the decisions of the Engineer-In-Charge (EIC) will be final and binding on the contractor.

2.0 SITE INFORMATION:

2.1 It is understood that before quoting the rates, the contractor has visited the work site and has acquainted himself fully and with the nature and quantum of the job to be carried out by him. Ignorance of this will not be considered after award of work. The contractor will be responsible to complete the entire job in all respects and any of the work necessary to complete job though specifically not covered in the scope of work.

2.2 Site Conditions:

Maximum Ambient Temperature	:39.8 °C.
Minimum Ambient Temperature	:1°C.
Design Temperature	:40°C.
Max Relative Humidity	:93%
Altitude	:_
Environment	: Humid.
Location	:Lepetkata, Assam.

2.3 Utilization Voltages and Operating Philosophy

(i) Receiving Substation	:33 KV.
(ii) HT distribution	:6.6 KV.
(iii) PCC/ MCC/ Lighting Panel/ Power Panel	
Incoming power supply	: 3 phase 415 V±6% AC, 50 Hz.
(iv) Lighting & Convenience out lets	: 240 V±6% AC, 50 Hz

2.4 The jobs shall be carried out at Entire BCPL Project Site at Lepetkata, Dibrugarh and at BCPL Town Ship, Borbaruah, Dibrugarh.

3.0 WORK SPECIFICATION AND STANDARDS:

3.1 All the specification for the work shall be as per Scope of Work & Schedule of Rates which are self-explanatory. However, wherever required concerned Bureau of Indian Standards shall be referred and the decision of the EIC shall be final and binding on the contractor.

3.2 The job shall conform to the Indian Electricity Rules- 1956, Various Indian Electricity Acts, Relevant standard/Code of BIS and CPWD specifications as applicable. Any other standard not mentioned above put otherwise considered necessary for the satisfactory performance of the job shall also be applicable.

4.0 CONTRACT VALUE

The value of work under this contract shall be as per attached schedule of quantities. Actual work may vary to any extent plus or minus to the attached schedule of rates, minimum value of work is not guaranteed and also quantities indicated in schedule of quantity is only tentative.

5.0 CONTRACT PERIOD:

The contract period shall be valid for period of **24(Twenty four) months** from the date of issue of work order.

6.0 CONTRACT PERFORMANCE BANK GUARANTEE:

The successful bidder has to submit a contract performance bank guarantee (BG) for an amount of **7.5 %** of the contract value with BCPL as per the relevant clause of GCC. The BG should be valid for a period of 03 months beyond defect liability period (DLP). The contract performance BG (CPBG) shall be refunded after 03 months of the expiry of contract and on completion of DLP. The contractor may submit CPBG in the form of Bank guarantee, valid at least 03 months after the expiry of contract period in the format attached in the tender document. The EMD shall be released after submission of CPBG.

7.0 VALIDITY OF QUOTED RATES:

The rates quoted accepted shall remain valid for the entire contract period and no escalation whatsoever, shall be permissible after award of the contract.

8.0 TAXES AND DUTIES

The quoted rates shall include all taxes, duties, service tax, employer's contribution share of P.F, insurance charges and all other levies etc. as applicable. BCPL shall not entertain any such claim, whatsoever, on this account.

9.0 MEASUREMENT AND BILLING:

9.1 All the works in progress shall be jointly measured by the representative of BCPL and contractor and shall be recorded in the measurement book by engineer in charge or his authorized representative.

9.2 The contractor will submit monthly bill in quadruplicate in approved proforma to the engineer in Charge giving abstract and detailed measurement for the various items executed.

9.3 Payment of monthly account running shall be regarded as payment by way of advance against the final payment. Payment shall be made for actual quantity executed.

10.0 TERMS OF PAYMENT:

10.1 Payment for monthly running account bill shall be made to the contractor within 15 days from the date of submission of the bill by the contractor subject to submission of proof of deposition of employees as well as employer's PF contribution as per norms.

10.2 All taxes duties, levies shall be deducted from the bill as per the applicable rules, regulations and amendments of the government.

10.3 The basis for payment against various items shall be below:-

10.3.1 For Supply Items:

- 90% on receipt of material at site and inspection.
- 5% on installation, testing & pre-commissioning.
- 5% after completion of all works in all respect and acceptance thereof.

10.3.2 For erection items:

- 80% on completion of installation.
- 15% on testing and pre-commissioning.
- 5% after completion of all works in all respect and acceptance thereof.

10.3.3 For items involving both supply and erection:

- 60 % on receipt of material at site and inspection.
- 20% after erection and alignment.
- 15% after testing and pre-commissioning.
- 5% after completion of all works in all respect and acceptance thereof.

10.3.3 All Other Work/ Services

- 95% on completion of individual items of work on prorata basis as certified in monthly progress bill.

-5% after completion of all works in all respect and acceptance thereof.

11.0 RECOVERY

11.1 Cost of any damage/loss of the property of BCPL, by the contractor shall be recovered from the bill/security deposit of the contractor and decision of BCPL / Engineer-In-Charge in this regard shall be final, binding and conclusive.

11.2 Contractor shall be responsible for safe custody of any equipment handed over to him. In case of loss / theft, the purchase cost of the equipment as per BCPL's record plus 30 % overhead charges shall be recovered from the contractor. BCPL's decision in this regard shall be final, binding and conclusive.

12.0 RATES OF ADDITIONAL WORK AND HOURS OF DUTY.

12.1 Rates for additional altered or substituted work shall be determined by the Engineer-In-Charge and the same shall be binding on the contractor.

12.2 If the rate for any altered, additional or substituted item of work is not specified in the said schedule of quantities, the rate for that item shall be from the rate for the nearest similar item specified therein or prevailing market rate.

12.3 The normal working hour is 8hrs. in a day

14.0 DEFFECT LIABILITY:

Defect liability period shall be six months from the date of issue of completion certificate. Any defect or damage discovered / observed in the work done material supplied by the contractor within this period due to poor workmanship / material shall be rectified / replaced by the contractor free of cost or in case of default BCPL may get the same rectified / replaced by other agency and the expenses so incurred shall be deducted from the contractor's bill / security deposit for which certificate of Engineer-In-Charge shall be final.

15.0 AGREEMENT

Contractor shall have to execute an agreement with BCPL in prescribed agreement form on non-judicial stamp paper of requisite value within 10 days after award and acceptance of the work. The cost of stamp paper shall be borne by the contractor.

16.0 TERMINATION OF THE CONTRACT:

16.1 In case the contractor's performance is not found satisfactory as per the opinion of Engineer-In-Charge, at any point of time during contract period, **the contract may be terminated by giving a 15 days' notice.** Any loss incurred by the company on this account shall be recovered from the contractor. BCPL may engage another agency to complete pending jobs under this contract at the risk and cost of the contractor.

16.2 Without prejudice to any rights under this contract if the contractor dies, the Engineer-In-Charge on behalf of the BCPL shall have the option of terminating the contract without compensation to the contractor.

17.0 SERVICES CARRIED OUT THROUGH OTHER AGENCIES

BCPL reserves the right to get the work done through any other party at the risk and cost of the contractor plus 15% extra towards BCPL's overhead, in case the contractor fails to fulfill his contractual obligation.

18.0 SUB-LETTING AND ASSIGNMENT OF CONTRACT:

The contractor shall not sub-let, transfer; assign the contract to any other party without prior permission of BCPL. However, any such permission consent by BCPL shall not relieve the contractor from any official obligation, duties or responsibilities under the agreement.

19.0 COMPLIANCE OF VARIOUS LABOUR & INDUSTRIAL LAWS:

19.1 The contractor firm concern should be an independent business establishment having its own registration for Provident Fund Account Numbers with the concerned Regional Provident Fund Commissioner (RPFC) under the Employees Provident Fund and Miscellaneous Provisions Act 1952. The contractor will submit the proof of depositing the employees as well as employer's PF contribution periodically. All incidental expenses such as administrative charges, Inspection charges etc. shall be the contractor's liability.

19.2 It shall be the sole liability of the contractor (including the Contracting firm company) to obtain and to abide by all necessary certificates licenses permissions from the concerned authorities as provided under the various labour legislation's including the Labour license obtained as per the provisions of the Contract Labour (Regulation & Abolition) Act, 1970. No work shall be allowed to start without a proper Labour License, if applicable. License should be obtained for maximum number of labours to be deployed on any one day.

19.3 The contractor shall discharge obligations as provided under various applicable statutory enactments' including the Employee Provident Fund & Miscellaneous Provident Act, 1952, the Employees State Insurance (ESI) Act, 1948, the Contract Labour (Regulation and Abolition) Act, 1970. The inter State Migrant workmen (Regulation of employment & conditions of Service) Act, 1979, the Minimum Wages Act, 1948 the payment of Wages Act, 1936, the Workmen's Compensation Act 1923 ,payment of bonus act 1965 and other relevant Acts, Rules and Regulations enforced from time to time. The contractor shall be liable for all payments etc. arising out of enforcement of the said legislation. Further, the contractor should maintain records etc. as required under the Legislation and produce the same for inspection whenever asked for.

19.4 The contractor shall be responsible for required contributions towards P.F. Pension, ESI or any other statutory payments to be made in respect of the contract and the personnel employed for rendering service to BCPL and shall deposit these amounts on or before the prescribed dates.

19.5 The contractor shall be solely responsible for the payment of wages and other dues to the personnel deployed by him latest by 7th of the subsequent month. The contractor shall be directly responsible and indemnify the company against all charges, dues, claims etc. arising out of the disputes relating to the dues and employment of personnel deployed by him. The wages should be disbursed to the contract labours by the contractor only in the presence of Engineer-In-Charge or his authorized representative. The contractor shall maintain proper records of his employees / workmen attendance, wages & over time etc. besides other payments made to them from time to time.

19.6 The contractor shall indemnify the Company against all losses or damages, if any caused to it on account of acts of the personnel deployed by him.

19.7 The contractor / contracting firm should have separate ESI code allotted under the Employees' State Insurance Act 1948. In case ESI is not applicable, contractor before commencement of work shall submit accident insurance Policy under workman's Compensation Act, 1923 covering all his employees to be deployed for execution of the contract to cover the insurance in course of employment at work place. The contractor shall ensure regular and effective supervision and undertaking the contractual obligations.

19.8 The contractor shall take insurance coverage of all his workmen to be deployed at work and submit the copy of the insurance policy (Workmen compensation) to the EIC.

19.9 The contractor shall carry out annual health checkup of his employees and submit health record/Register as prescribed in factory rule and submit to EIC every year

19.10 The contractor shall indemnify BCPL and every member / officers and employees of BCPL also the officers in charge and his staffs against all actions proceedings claims, demands, costs and expenses which may be made against BCPL or Government for in respect of or arising out of any failure by the contractor in the performance of his obligations under the contract. BCPL shall not be liable for or in respect of or in consequence of any accidents or injury to any workmen or other person in the employment of the contractor or his sub-contractor and the contractor shall indemnify and keep indemnified BCPL against costs, charges and whatsoever in respect there of relation their to.

19.11 The contractor labour to be engaged for the contract by the contractor / contracting firm should be on the roll of the contractor's firm.

19.12 The contractor should issue photo-identity and card to all his employees as per prescribed format.

19.13 The contractor should arrange for C & A verification of the personnel deployed by him for the contract.

19.14 The contractor shall engage sufficient no of experienced and qualified manpower to discharge the contractual obligations effectively.

20.0 QULIFICATION AND EXPERIENCE OF CONTRACT PERSONNEL:

20.1 For the smooth execution of the services contracted out herein, the contractor has to deploy personnel with proper qualification as per statutory requirements. The contractor has to deploy qualified and experienced electrician to carry out electrical jobs.

20.2 The contractor shall deploy one experienced supervisor having 33 KV supervisor license for day-to-day job.

20.3 All the Electricians engaged by the contractor must have Electrical License issued by statutory body to carry out Electrical Jobs and should be experienced one in 33 KV Electrical system.

20.4 Contractor has to submit the copy of the educational certificates & Electrical Licenses to the Engineer-in-Charge.

21.0 MOBILISATION / DEMOBILISATION

21.1 All expenses towards mobilization at site and de-mobilization of equipment, workforce, material and clearing the site etc. shall be deemed to be included in the price quoted by the contractor and no extra payment on such expenses shall be entertained.

21.2 The contractor shall make his own arrangement for removal of old as well as unused material from work site to the place indicated by the EIC, after completion of work.

24.0 SUPERVISION OF WORK:

24.1 It is mandatory to depute one qualified supervisor having 33 KV Supervisor License at site for all working days. The supervisor should be able to manage site activities while executing job at site and guide his personnel to carry out the work with proper safety.

24.2 All the personnel engaged by the contractor shall have report to the Contractor's supervisor daily for allocation of job.

25.0 BOARDING & LOADING

Boarding and lodging of contractor personnel during execution of the job shall be provided by the contractor at his own cost.

26.0 TRANSPORTATION:

Transportation of contractor personnel during execution of the job shall be provided by the contractor at his own cost.

27.0 SAFETY AND SECURITY:

27.1 The personnel to be deputed by the contractor shall observe security, fire and safety guidelines/ rules of BCPL while at site.

27.2 No contractor's personnel shall be allowed on duty without wearing applicable safety gears.

Contractor has to arrange helmet, safety belt, safety shoe etc. for its employees.

27.3 Contractor shall comply with all applicable safety laws and other laws including but not limited to contract labour (R&A) Act, 1970 etc. Contractor should be conversant with labour laws and regulations in practice and shall keep the BCPL, harmless and indemnified against any action brought against it for any violation non-compliance of any Act etc.

28.0 GATE PASS/IDENTITY CARDS

28.1 The contractor shall issue photo entry pass for their personnel to be deployed inside plant, which they shall be required to display prominently during the period of their stay within the company premises.

28.2 The contractor shall obtain proper gate pass for entries and exits of all materials and equipments inside the plant.

29.0 ENGINEER-IN-CHARGE (EIC):

29.1 EIC will be authorized to stop the work of the contractor, whenever such stoppage may be necessary to ensure proper execution of the contract. He shall also have authority to reject all work, which do not confirm to the specification.

29.2 The Engineer-in-Charge reserves the right to suspend the work or part thereof of the contractor at any time and no claim whatsoever on this account shall be entertained. In case of any dispute, the contractor may appeal to the Engineer-In-Charge whose decision shall be final and binding.

29.3 The decision of Engineer-In-Charge for determining the category of work with reference to material of an item not mentioned in scope of work shall be final.

30.0 COMPLETION CERTIFICATE & FINAL BILL

30.1 The Engineer-In-Charge shall normally issue to the contractor the completion certificate within one month after receiving an application thereof from the contractor after verifying from the completion documents and satisfying himself that the work has been completed in all respect in accordance with the instructions, specifications of the contract documents.

30.2 The contractor after obtaining the completion certificate is eligible to present the final bill for the work executed by him. The final bill shall be prepared on the basis of the final measurement entered in the measurement book sheets. The final bill shall be prepared in the prescribed format for total work covered by the contract, such bill to be drawn up by applying the applicable rates, specified in the schedule or rates to the relative measured quantities. The final bill shall also include all additional claims of the contractor if any will be considered as conclusive.

31. FINAL CERTIFICATE:

Within fifteen days of the contractor's application after the expiry of the period of defect liability provided in the contract, the Engineer-in-Charge shall issue final certificate to the contractor certifying that the contractor has performed his obligations in respect of the defect period and until, issue of such final certificate, the contractor shall be deemed not to have performed such liabilities notwithstanding issue of the completion certificate or payment of the final bill by BCPL.

32. SCOPE OF WORK:

The brief description of the work is as mentioned below:

Total operation and maintenance of the entire Electrical Construction Power Supply System at Lepetkata Site of Brahmaputra Cracker and Polymer Ltd, including routine / preventive maintenance, immediate rectification of fault/ break down including replacement of faulty items to keep the system sound and operational and maintenance of split type Air Conditioners (1.5/ 2 Ton) at BCPL's Lepetkata Site & BCPL Township at Borboruah, Dibrugarh.

The Job includes but not restricted to:

Operation & maintenance of followings:

A. Operation & maintenance of following Equipments of Entire Construction Power Supply Systems:

- i) All Electrical Equipments at Main Receiving Substations (MRSS) such as Transformer (33/6.6 KV, 5 MVA), HT switchgears, HT cable, battery bank, battery charger, DC control panel, OLTC etc.
- ii) All Electrical Equipments at all Construction Power Substations (CSS #1 to CSS#7) and at Substation 14.
- iii) All power and distribution transformers & neutral grounding resistor.
- iv) All HT/ LT switch gears.
- v) Ring main units.
- vi) All HV/ MV/ LT switchgears.
- vii) Capacitor Banks maintaining minimum power factor above 0.90 lag at all construction substations.
- viii) 4/2/1-pole structures with incoming and outgoing circuits.
- ix) Feeder Pillars.
- x) 6.6 KV overhead Lines.
- xi) 6.6 KV and HV/ MV/LV cabling system of entire construction power system .
- xii) Indoor/ out door Lighting.
- xiii) Earthing Systems Etc.

B. Operation of DG Set:

Operation of 4 nos. DG sets (3 nos.250 KVA and 1 no. 500 KVA) and control panels including **supply**, transportation, storage and refilling of diesel in day tank. Out of these 04 nos of DG sets 01 no of 250 KVA DG set is at BCPL Township , Barbaruah and rest 03 nos are at Lepetkata Project Site of BCPL. Apart from above, contractor has to supply diesel for a 75 KVA DG Set installed at BCPL, Project Site. All these DG sets are installed to provide Back Up power supply.

C. Operation & Maintenance of outdoor Street light and high mast lighting:

Operation & Maintenance of outdoor area lighting system including street lighting, high mast lighting poles with all accessories.

D. Operation & maintenance of power Supply to BCPL's offices at Project Site & indoor lighting:

Operation and Maintenance of Electrical Works i.e, cabling, lighting, earthing and lighting protection system for the Administrative Area comprising of central warehouse, main and auxiliary fire stations, Site office, Product ware house, Ware House, Security Gate Houses, Watch Towers, Substations etc.

E. Maintenance of Split Type Air Conditioners :

Maintenance of split type Air Conditioners (1.5/ 2 ton) installed at BCPL Lepetkata Project site and at BCPL township at Borbaruah, Dibrugarh i.e, preventive maintenance of Air Conditioners, replacement of parts & gas charging etc.

33. Following are included in contractor's scope:

33.1 Deployment of required manpower: Minimum deployment for operation and maintenance of electrical system shall include one supervisor (in general shift only) having 33 KV supervisory license, 3 qualified licensed electricians plus 3 nos. of helpers on each shift basis (three shift per day) for 24 hours. Also, provision for nos. of deployment of electrician in each shift may altered on this minimum deployment depending on the job.

Also, if needed, provision of deployment of more electricians, semi/unskilled workers without any separate payment, in case of routine, preventive and major maintenance works.

For non-deployment of sufficient nos of supervisor, electrician & helpers in case of job demand, recovery of Rs.20,000/ month for supervisor, Rs 10,000/month for electrician & Rs 5000/ month for helpers will be made.

33.2 Contractor shall note that other than above specified minimum deployment, contractor shall deploy one Project Manager having minimum qualification diploma in Electrical Engineering with 5 years' experience in 33 KV for overall co-ordination of the O & M contract and for interaction with client.

33.3 All tools and tackles, testing equipments, including supply of all consumables.

33.4 All transportation.

33.5 All procurement efforts.

33.6 All labour, tools & tackels, Testing equipments etc required for carrying out preventive/ breakdown maintenance of all equipment and system network as per sound engineering, operating and maintenance practices.

33.7 All labour, tools & teckles and other accessories such as Blue Lamp/ Gas Cylinder (if required) required for carrying out making joint of power cable including tracing and localization of cable fault.

33.8 All labour required for termination of HT Cable for both outdoor & indoor termination.

33.9 Minor repair job like cutting/ welding reqd. for maintaining the system.

33.10 Minor civil repair job like cutting/ welding reqd. for maintain the system & Minor Civil repair job like chipping/ plastering reqd. for maintain the system.

33.11 Issue of safety requirements like providing Gloves, safety shoes, Safety Helmets, Safety Belts to the contract employees.

33.12 Co-ordination with contractors at site for construction power supply including joint metering for raising power bill to contractors.

33.13 Transportation, office furniture and all other essential requirements for people deployed by the contractor at site.

33.14 Contractor has to arrange necessary transport facility to its employees inside the project site so that they will be able to attend breakdown maintenance promptly.

34.0 Work Order for Operation & Maintenance of Entire Construction Power Supply System will not be spilt.

35.0 If Hour Meter installed in DG set got defected, contractor has to supply and install new calibrated Hour Meter in DG set at his own cost. **For item at Sl. No.2 & 3, contractor has to Supply required quantity of Diesel to run the respective DG Sets (including supply, transportation, storage and refilling of diesel in day tank). However payment shall be made on running hour basis.**

36.0 Contractor shall carry out routine maintenance as recommended by the equipment supplier and has to attend any breakdown promptly.

37.0 Contractor shall maintain following records of maintenance work:

37.1 Contractor shall maintain records of all the supply items of SOR. Payment against supply item shall be made on actual consumptions.

37.2 Maintenance records:

Contractor shall maintain records of maintenance works indicating planned maintenance schedule for a period of six months.

37.3 Repair records:

Contractor shall maintain records of all faults indicating date and time of occurrence of fault, date and time of repair of fault, list of material consumed etc.

37.4 Diesel Consumption Records.

Contractor has to supply diesel for one 75 KVA DG set installed at offices at Lepetkata Project Site. Contractor shall maintain records of running hours of DG set indicating date and period, diesel consumption etc .for raising invoice. The payment shall be made on calibrated hour meter reading basis. 16 (Sixteen) Litre/ hour consumption of diesel for 75 KVA DG set shall be considered for reconciliation.

Reimbursement for Diesel shall be done on the basis of diesel invoice and consumption of diesel per hour basis (16 Litre per hour). Payment shall be made on actual consumption.

37.5 DG Set Running Hour Records:

For the items at Sl. No.2 & 3 of SOR, Billing shall be done on the basis of running hours of DG sets. Contractor shall maintain records of running hours of DG set indicating date and period for raising invoice. The payment shall be made on calibrated hour meter reading basis. **For items at Sl. No.2 & 3, contractor has to Supply required quantity of Diesel to run the respective DG Sets (including supply, transportation, storage and refilling of diesel in day tank). However payment shall be made on running hour basis.**

37.6 All the records of operation and maintenance to be maintained in hard as well as soft copy.

37.7 All consumables are included in the scope of contractor, which should be readily available with the contractor so that any fault can be repaired in least possible time.

37.8 All records shall be generated as per instruction of EIC and shall be made available to him when demanded.

38.0 Contractor has to carry out filtration of transformer oil (including testing of BDV of transformer oil) as per relevant BIS code and instruction of Engineer-in-Charge. Contractor has to arrange filtration machine with all accessories at his own cost and complete the job in all respect. In case of any test of transformer oil is required to be carried out in some outside laboratory; contractor has carry out the test at his own cost.

39.0 Escalation & De-escalation on Diesel Prices:

Escalation/ De-escalation shall be paid on diesel for the items at Sl. No.2, 3 and 4 of SOR.

For item at Sl. No. 2 of SOR, Diesel Consumption per running hour shall be considered as 65 Litres per hour.

For item at Sl. No. 3 of SOR, Diesel Consumption per running hour shall be considered as 41 Litres per hour.

For item at Sl. No. 4.0 of SOR, Diesel Consumption per running hour shall be considered as 16 Litres per hour.

In case Diesel prices go up or down, payment against running hour of Items at Sl. No. 2 and 3 of SOR shall be made accordingly. However contractor has to submit copy of invoice as proof for escalation/ de-escalation of Diesel Prices. For calculation of escalation/ de-escalation on Diesel Price, present price of Diesel i.e, Rs.42.40 shall be considered as base price.

[For example, if Diesel Price go up by Rs.2.00 from the base price of Rs.42.40 and a DG set run for 100 Hrs from the date of escalation of Diesel Price, escalated price (for items at Sl. no.2 and 3 of SOR) for those 100 hrs shall be done as: **Rs.2.00 X100X diesel consumption per running hour** as mentioned above. Vice versa shall also be applicable in case of de-escalation of diesel price.]

Escalation/ de-escalation shall be paid on Diesel for the Item at Sl. No.4.0 of SOR too. Contractor has to submit copy of invoice as proof for escalation/ de-escalation of Diesel Prices. For calculation of escalation/ de-escalation on Diesel Price, present price of Diesel i.e, Rs.42.40 shall be considered as base price and consumption per hour for particular DG set shall be considered as above.

[For example, if Diesel Price go up by Rs.2.00 from the base price of Rs.42.40 and a DG set run for 100 Hrs from the date of escalation of Diesel Price, billing against Supply of Diesel (for the item at Sl. No.4.0 of SOR) for those 100 hrs shall be done as: Rs.2.00 X100X consumption rate per running hour of that DG Set. Vice versa shall also be applicable in case of de-escalation of diesel price.]

40.0 Contractor has to carry out preventive maintenance of Air Conditioners, replacement of parts & gas charging etc. of spilt type Air Conditioners (1.5/ 2 ton) installed at BCPL Lepetkata Project site and at BCPL township at Borbaruah, Dibrugarh as per instruction of Engineer-in-charge.

41.0 While handing over the system shall be in smooth operating/ running condition.

42.0 Attachments:

- 1) Datasheet of Lighting Fixture Schedule.
- 2) SOR.
- 3) List of Tools & Tackles Req'd.

**SIGNATURE AND SEAL OF
THE CONTRACTOR**

SCHEDULE OF RATES (SOR)**Annexure-I**

**SUBJECT : OPERATION & MAINTENANCE (O&M) FOR CONSTRUCTION POWER SUPPLY AT
BRAHMAPUTRA CRACKER AND POLYMER LIMITED, LEPETKATA**

Sl. No.	Description	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1.0	Operation and Maintenance charges for operation & maintenance of entire Construction Power Supply system equipments at BCPL, Lepetkata, Dibrugarh, Assam, including all plant buildings/non-plant buildings, construction sub-stations (CSS-01 to CSS-07, main receiving station & SS#14), battery bank, battery charger, DC control panel, Ring main units, RTCC, all power and distribution transformers, all HV/MV/LV switchgears, associated cabling, capacitor banks, 4/2/1 pole structures with incoming and outgoing circuits, 6.6 KV feeder pillars, 6.6 KV overhead lines, 6.6 KV and MV/LV cabling system, indoor and outdoor area lighting System including street lighting, high mast lighting with all accessories and flood lighting poles, earthing system, maintaining minimum power factor above 0.90 lagging at all construction sus-stations, deployment of required manpower [minimum deployment for operation and maintenance of electrical system on each shift basis for 24 hours shall include one supervisor and one technician for Air Conditioner (in general shift), 3 electricians with 3 helpers in 3 shifts, adequate numbers of semi/unskilled workers etc. as required], tools and tackles including personal protective equipments for the manpower deployed at site, testing equipments including supply of all consumables, all transportation, all procurement efforts and all labour etc, for carrying out routine preventive and breakdown maintenance of all equipment and system network as per sound engineering, operating and maintenance practices and directions of engineer in charge, (contractor shall note that other than above specified minimum deployment, contractor shall deploy one Project Manager having minimum qualification diploma in electrical engineering with minimum 5 years of experience for overall co-ordination of the O&M contract and for interaction with client):	LS Per Month	24	Do Not Quote Here	Do Not Quote Here
2.0	Operation charges per running hour of DG set of 500 KVA rating including Supply of Diesel (including Supply, loading/ unloading, transportation, refilling of diesel in day tank of DG Set.), periodical cleaning of Day Tank, Radiator etc.	Running Hour	2500	Do Not Quote Here	Do Not Quote Here
3.0	Operation charges per running hour of DG set of 250 KVA rating including Supply of Diesel (including Supply, loading/ unloading, transportation, refilling of diesel in day tank of DG Set.), periodical cleaning of Day Tank, Radiator etc.	Running Hour	8000	Do Not Quote Here	Do Not Quote Here
4.0	Only Supply of Diesel for 75 KVA DG	Litre	12000	Do Not Quote Here	Do Not Quote Here
5.0	Supply of lamps for following lighting fixtures				
5.1	IND-1	Nos.	50.00	Do Not Quote Here	Do Not Quote Here

5.2	IND-3	Nos.	15.00	Do Not Quote Here	Do Not Quote Here
5.3	IND-4	Nos.	150.00	Do Not Quote Here	Do Not Quote Here
5.4	SFD-6	Nos.	200.00	Do Not Quote Here	Do Not Quote Here
5.5	FD9	Nos.	50.00	Do Not Quote Here	Do Not Quote Here
5.6	LB3	Nos.	50.00	Do Not Quote Here	Do Not Quote Here
5.7	HB4	Nos.	10.00	Do Not Quote Here	Do Not Quote Here
5.8	CM-4	Nos.	5.00	Do Not Quote Here	Do Not Quote Here
5.9	ST-1	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
5.10	ST-3	Nos.	10.00	Do Not Quote Here	Do Not Quote Here
5.11	PT-3	Nos.	150.00	Do Not Quote Here	Do Not Quote Here
5.12	FD-6	Nos.	5.00	Do Not Quote Here	Do Not Quote Here
5.13	FD-7	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
5.14	CM-2	Nos.	50.00	Do Not Quote Here	Do Not Quote Here
5.15	ST-8	Nos.	100.00	Do Not Quote Here	Do Not Quote Here
5.16	IND-2	Nos.	25.00	Do Not Quote Here	Do Not Quote Here
5.17	SFD-6	Nos.	100.00	Do Not Quote Here	Do Not Quote Here
5.18	RSD-1	Nos.	4.00	Do Not Quote Here	Do Not Quote Here
5.19	RSD-6	Nos.	50.00	Do Not Quote Here	Do Not Quote Here
5.20	ST-10	Nos.	30.00	Do Not Quote Here	Do Not Quote Here
5.21	HB-3	Nos.	30.00	Do Not Quote Here	Do Not Quote Here
5.22	HB-4	Nos.	200.00	Do Not Quote Here	Do Not Quote Here
5.23	HB-1	Nos.	15.00	Do Not Quote Here	Do Not Quote Here
5.24	HB-2	Nos.	100.00	Do Not Quote Here	Do Not Quote Here
5.25	CFL-3	Nos.	70.00	Do Not Quote Here	Do Not Quote Here
5.26	CFL-4	Nos.	70.00	Do Not Quote Here	Do Not Quote Here
6.0	Supply of Ignitor for the following				
6.1	FD-9	Nos.	40.00	Do Not Quote Here	Do Not Quote Here
6.2	LB-3	Nos.	40.00	Do Not Quote Here	Do Not Quote Here
6.3	HB-4	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
6.4	FD-6	Nos.	50.00	Do Not Quote Here	Do Not Quote Here
6.5	FD-7	Nos.	30.00	Do Not Quote Here	Do Not Quote Here
6.6	HB-3	Nos.	60.00	Do Not Quote Here	Do Not Quote Here
6.7	HB-4	Nos.	70.00	Do Not Quote Here	Do Not Quote Here
6.8	HB-1	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
6.9	HB-2	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
7.0	Supply of Capacitor for the following				
7.1	IND-1	Nos.	40.00	Do Not Quote Here	Do Not Quote Here

7.2	IND-3	Nos.	2.00	Do Not Quote Here	Do Not Quote Here
7.3	IND-4	Nos.	15.00	Do Not Quote Here	Do Not Quote Here
7.4	SFD-6	Nos.	15.00	Do Not Quote Here	Do Not Quote Here
7.5	FD-9	Nos.	30.00	Do Not Quote Here	Do Not Quote Here
7.6	LB-3	Nos.	10.00	Do Not Quote Here	Do Not Quote Here
7.7	HB-4	Nos.	1.00	Do Not Quote Here	Do Not Quote Here
7.8	CM-4	Nos.	1.00	Do Not Quote Here	Do Not Quote Here
7.9	ST-1	Nos.	2.00	Do Not Quote Here	Do Not Quote Here
7.10	ST-3	Nos.	1.00	Do Not Quote Here	Do Not Quote Here
7.11	PT-3	Nos.	15.00	Do Not Quote Here	Do Not Quote Here
7.12	FD-6	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
7.13	FD-7	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
7.14	CM-2	Nos.	35.00	Do Not Quote Here	Do Not Quote Here
7.15	ST-8	Nos.	15.00	Do Not Quote Here	Do Not Quote Here
7.16	IND-2	Nos.	10.00	Do Not Quote Here	Do Not Quote Here
7.17	SFD-6	Nos.	10.00	Do Not Quote Here	Do Not Quote Here
7.18	RSD-1	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
7.19	RSD-6	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
7.20	ST-10	Nos.	40.00	Do Not Quote Here	Do Not Quote Here
7.21	HB-3	Nos.	70.00	Do Not Quote Here	Do Not Quote Here
7.22	HB-4	Nos.	35.00	Do Not Quote Here	Do Not Quote Here
7.23	HB-1	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
7.24	HB-2	Nos.	30.00	Do Not Quote Here	Do Not Quote Here
8.0	Supply of choke for the following	Nos.			
8.1	IND-1	Nos.	60.00	Do Not Quote Here	Do Not Quote Here
8.2	IND-3	Nos.	10.00	Do Not Quote Here	Do Not Quote Here
8.3	IND-4	Nos.	25.00	Do Not Quote Here	Do Not Quote Here
8.4	SFD-6	Nos.	40.00	Do Not Quote Here	Do Not Quote Here
8.5	FD-9	Nos.	15.00	Do Not Quote Here	Do Not Quote Here
8.6	LB-3	Nos.	30.00	Do Not Quote Here	Do Not Quote Here
8.7	HB-4	Nos.	1.00	Do Not Quote Here	Do Not Quote Here
8.8	CM-4	Nos.	1.00	Do Not Quote Here	Do Not Quote Here
8.9	ST-1	Nos.	2.00	Do Not Quote Here	Do Not Quote Here
8.10	ST-3	Nos.	1.00	Do Not Quote Here	Do Not Quote Here
8.11	PT-3	Nos.	15.00	Do Not Quote Here	Do Not Quote Here
8.12	FD-6	Nos.	1.00	Do Not Quote Here	Do Not Quote Here
8.13	FD-7	Nos.	15.00	Do Not Quote Here	Do Not Quote Here

8.14	CM-2	Nos.	50.00	Do Not Quote Here	Do Not Quote Here
8.15	ST-8	Nos.	10.00	Do Not Quote Here	Do Not Quote Here
8.16	IND-2	Nos.	10.00	Do Not Quote Here	Do Not Quote Here
8.17	SFD-6	Nos.	15.00	Do Not Quote Here	Do Not Quote Here
8.18	RSD-1	Nos.	5.00	Do Not Quote Here	Do Not Quote Here
8.19	RSD-6	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
8.20	ST-10	Nos.	20.00	Do Not Quote Here	Do Not Quote Here
8.21	HB-3	Nos.	40.00	Do Not Quote Here	Do Not Quote Here
8.22	HB-4	Nos.	25.00	Do Not Quote Here	Do Not Quote Here
8.23	HB-1	Nos.	5.00	Do Not Quote Here	Do Not Quote Here
8.24	HB-2	Nos.	15.00	Do Not Quote Here	Do Not Quote Here
9.0	Supply of MCB & ELCB of following Ratings:	Nos.			
9.1	DP MCB, 25A, Make:Standard or equivalent.	Nos.	30	Do Not Quote Here	Do Not Quote Here
9.2	SP MCB , 20A, Make: Standard or Equivalent	Nos.	30	Do Not Quote Here	Do Not Quote Here
9.3	4 P, 63A ELCB with 30mA sensitivity, Make: Standard or Equivalent.	Nos.	20	Do Not Quote Here	Do Not Quote Here
10.0	Laying and termination of 3/ 3.5 /4 Core AYYF/CYFY Cables (excluding supply of cable) of following sizes :-				
10.1	OD ≤ 20 mm	Mtr.	1000	Do Not Quote Here	Do Not Quote Here
10.2	20 < OD ≤ 40 mm	Mtr.	1000	Do Not Quote Here	Do Not Quote Here
10.3	40 < OD ≤ 80 mm	Mtr.	1000	Do Not Quote Here	Do Not Quote Here
10.4	□0 < OD	Mtr.	500	Do Not Quote Here	Do Not Quote Here
11.0	Excavation & backfilling for making buried cable trenches of size upto 500X500 mm, including supply and laying of fine river sand & second class bricks for under ground cable laying as per relevant BIS code and instruction of Engineer-in-charge.	Mtr.	1000	Do Not Quote Here	Do Not Quote Here
12.0	Supply of End Termination Kit of following types:			Do Not Quote Here	Do Not Quote Here
12.1	6.6KV, 300 sqmm (indoor) type,	Nos	10	Do Not Quote Here	Do Not Quote Here
12.2	6.6KV, 300 sqmm (outdoor) type	Nos	15	Do Not Quote Here	Do Not Quote Here
12.3	33KV, 300 sqmm (indoor) type	Nos	2	Do Not Quote Here	Do Not Quote Here
12.4	33KV, 300 sqmm (outdoor) type	Nos	2	Do Not Quote Here	Do Not Quote Here
13.0	Supply of cables of following sizes:				
13.1	3C X 1.5 sq mm, PVC insulated multi strand Copper wire, Make: Havells, Finolex or equivalent	Mtr	1000	Do Not Quote Here	Do Not Quote Here
13.2	3C X 2.5 sq mm, PVC insulated multi strand Copper Wire, Make: Havells, Finolex or equivalent	Mtr	1000	Do Not Quote Here	Do Not Quote Here
13.3	3.5 C X35 sq,mm,PVC insulated,armoured Aluminium cable,1.1 KV ,Make Havell/Nicco/Polycab/Universal or eequivalent	Mtr	500	Do Not Quote Here	Do Not Quote Here

13.4	3.5 C X 50 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV, Make: Havell/Nicco/Polycab/Universal or equivalent.	Mtr	500	Do Not Quote Here	Do Not Quote Here
13.5	3C X 6 sq mm, PVC insulated multi strand copper wire, Make: Havells, Finolex or equivalent	Mtr	200	Do Not Quote Here	Do Not Quote Here
13.6	3C X 10 sq mm, PVC insulated multi strand copper wire, Make: Havells, Finolex or equivalent	Mtr	200	Do Not Quote Here	Do Not Quote Here
14.0	Supply of straight through cable jointing kits with all accessories for following sizes of cable.				
14.1	for 3.5 C X 35 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV	No.	20	Do Not Quote Here	Do Not Quote Here
14.2	for 3.5 C X 50 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV	No.	20	Do Not Quote Here	Do Not Quote Here
14.3	for 3.5 C X 70 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV	No.	10	Do Not Quote Here	Do Not Quote Here
14.4	for 3.5 C X 185 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV	No.	10	Do Not Quote Here	Do Not Quote Here
14.5	for 3.5 C X 240 sq mm, PVC insulated, armoured Aluminium cable, 1.1 KV	No.	10	Do Not Quote Here	Do Not Quote Here
14.6	for 3.5 C X 300 sq mm, 1.1 KV, PVC insulated, armoured Aluminium cable	No.	30	Do Not Quote Here	Do Not Quote Here
14.7	For 3 C X 300 sq mm, 6.6 KV, XLPE insulated, armoured Aluminium cable	No.	20	Do Not Quote Here	Do Not Quote Here
15.0	Supply of following switches ,sockets and other electrical wiring materials				
15.1	5/15 A switch, Make: Anchor or equivalent.	No.	50	Do Not Quote Here	Do Not Quote Here
15.2	5/15 A Socket, Make: Anchor or equivalent.	No.	50	Do Not Quote Here	Do Not Quote Here
15.3	5/15 A modular switch, Make: Anchor or equivalent	No.	50	Do Not Quote Here	Do Not Quote Here
15.4	5/15 A modular Socket, Make:Anchor or equivalent.	No.	40	Do Not Quote Here	Do Not Quote Here
15.5	Modular Plate, Make:Anchor or equivalent.	No.	40	Do Not Quote Here	Do Not Quote Here
15.6	Electronic Regulator for fan, Make:Anchor or equivalent.	No.	50	Do Not Quote Here	Do Not Quote Here
15.7	1" casing capping	Mtr	600	Do Not Quote Here	Do Not Quote Here
15.8	Switch board(7" x4")Modular/EquivalentPVC Board	No.	40	Do Not Quote Here	Do Not Quote Here
15.9	Switch board(8" x6")Modular/EquivalentPVC Board	No.	20	Do Not Quote Here	Do Not Quote Here
15.10	20 A Industrial socket, 3 pin type	No.	20	Do Not Quote Here	Do Not Quote Here
15.11	Spike Buster/Power strip, with 6 o/g sockets of 6 Amp, Make : Anchor or equivalent.	No.	10	Do Not Quote Here	Do Not Quote Here
15.12	GI screw	Pkt	100	Do Not Quote Here	Do Not Quote Here
15.13	PVC Wall Plug (Gutka)	Pkt	100	Do Not Quote Here	Do Not Quote Here
15.14	GI Saddle	No.	200	Do Not Quote Here	Do Not Quote Here
15.16	L,T,external, Internal,Coupler etc.	No	200	Do Not Quote Here	Do Not Quote Here
16.0	Wiring with 3 X 1.5/ 3 X 2.5 sq. mm PVC insulated multi strand Copper wire exculding supply of wire & other accessories.	Metre	1000	Do Not Quote Here	Do Not Quote Here
17.0	Supply & replacement of following items for ceiling fan upto 1400 mm				

	sweep				
17.1	Bearing(ZZ),make: SKF/FAG	No.	30	Do Not Quote Here	Do Not Quote Here
17.2	Shaft	No.	3	Do Not Quote Here	Do Not Quote Here
17.3	Blades(Set of 03nos)	No.	3	Do Not Quote Here	Do Not Quote Here
17.4	Plastic holder with connector for capacitor	No.	20	Do Not Quote Here	Do Not Quote Here
17.5	4 μ fd capacitor ,230 volt for Exhaust fan	No.	10	Do Not Quote Here	Do Not Quote Here
18.0	Rewinding of following 1 Phase AC motors including supply of all required material. The insulation class of the material used for rewinding shall be as per the original design of the motor .Transportation of burnt motor from site to Motor rewinding shop and delivering it back to site shall be in contractor's scope .				
18.1	Rewinding of burnt Ceiling fan motor	No.	30	Do Not Quote Here	Do Not Quote Here
18.2	Rewinding of burnt exhaust fan motor	No.	15	Do Not Quote Here	Do Not Quote Here
18.3	Rewinding of water supply pump motors upto 1.1 HP rating	No.	10	Do Not Quote Here	Do Not Quote Here
19.0	Supply and filling of Engine Oil (15W40 conforming to the API CG-4 or API CH-4) for DG Set	Ltr	200	Do Not Quote Here	Do Not Quote Here
20.0	Supply of MCCB of following rating:			Do Not Quote Here	Do Not Quote Here
20.1	MCCB, 4 pole, 63 Amps, 20 KA, Make:Schneider or equivalent.	No.	40	Do Not Quote Here	Do Not Quote Here
20.2	MCCB, 4 pole, 125 Amps, 25 KA, Make:Schneider or equivalent.	No.	20	Do Not Quote Here	Do Not Quote Here
20.3	MCCB, 4 pole, 250 Amps, 50 KA, Make:Schneider or equivalent.	No.	10	Do Not Quote Here	Do Not Quote Here
20.4	MCCB, 4 pole, 400 Amps, 50 KA, Make: Schneider or equivalent.	No.	10	Do Not Quote Here	Do Not Quote Here
21.0	Supply of Transformer Oil	Ltr	1000	Do Not Quote Here	Do Not Quote Here
22.0	Filtration & topping up of Transformer Oil.	Ltr	12500	Do Not Quote Here	Do Not Quote Here
24.0	Preventive Maintenance, Gas Charging & Replacement of parts of Split type Air Conditioner (1.5 Ton & 2 Ton) installed at BCPL, Lepetkata Project Site and at BCPL Township at Borbaruah, Dibrugarh:				
24.1	Preventive maintenance of Split Type Air Conditioner (1.5/2 Ton) including cleaning of Indoor & Outdoor Unit. The job is to be carried out as per instruction of Engineer In-charge	No.	71	Do Not Quote Here	Do Not Quote Here
24.2	Replacement of Compressor for 1.5 ton AC	No.	5	Do Not Quote Here	Do Not Quote Here
	Replacement of Compressor for 2 ton AC	No.	1	Do Not Quote Here	Do Not Quote Here
24.3	Replacement of Fan motor	No.	5	Do Not Quote Here	Do Not Quote Here
24.4	Rewinding of Fan motor	No.	5	Do Not Quote Here	Do Not Quote Here
24.5	Replacement of PCB	No.	5	Do Not Quote Here	Do Not Quote Here

24.6	Replacement of running capacitor	No.	15	Do Not Quote Here	Do Not Quote Here
24.7	Replacement of Oscillating motor	No.	10	Do Not Quote Here	Do Not Quote Here
24.8	Gas Charging	Kg	20	Do Not Quote Here	Do Not Quote Here
24.9	Replacement of Copper Tube	Metre	10	Do Not Quote Here	Do Not Quote Here
24.10	Replacement of Insulation Tape	Metre	30	Do Not Quote Here	Do Not Quote Here
24.11	Replacement of Start Capacitor	No.	10	Do Not Quote Here	Do Not Quote Here
24.12	Replacement of Air Blower.	No.	3	Do Not Quote Here	Do Not Quote Here
24.13	Replacement of Fan Blade	No.	4	Do Not Quote Here	Do Not Quote Here
24.14	Replacement of Start Relay	No.	5	Do Not Quote Here	Do Not Quote Here
25.0	Supply of DO Fuse for Overhead HT Line of following ratings:			Do Not Quote Here	Do Not Quote Here
25.1	DO Fuse for 6.6 KV, 50 A/80A/100A	No	100	Do Not Quote Here	Do Not Quote Here
25.2	DO Fuse for 33 KV, 50 A/70A	No	20	Do Not Quote Here	Do Not Quote Here

Note:-

- 1) FOR ITEMS AT SL. No.2 & 3, CONTRACTOR HAS TO SUPPLY REQUIRED QUANTITY OF DIESEL TO RUN RESPECTIVE DG SETS. ESCALATION & DE-ESCALATION ON DIESEL PRICES SHALL BE PAID AS PER SCC PART-B.
- 2) FOR ITEM AT SL. NO. 2 OF SOR, DIESEL CONSUMPTION PER RUNNING HOUR SHALL BE CONSIDERED AS 65 LITRES PER HOUR. THE COST OF SUPPLY OF DIESEL MUST BE INCLUDED IN THE OPERATION CHARGES PER RUNNING HOUR OF DG SET.
- 3) FOR ITEM AT SL. NO. 3 OF SOR, DIESEL CONSUMPTION PER RUNNING HOUR SHALL BE CONSIDERED AS 41 LITRES PER HOUR. THE COST OF SUPPLY OF DIESEL MUST BE INCLUDED IN THE OPERATION CHARGES PER RUNNING HOUR OF DG SET.

LIST OF TOOLS AND TACKLES:

1.	Hand Drilling machine of 6mm size with masonry and straight shank steel drill bits: 1 Nos.		
2.	Megger, 1000v	-	1 Nos.
3.	Megger, 5000 V	-	1 Nos.
3.	Multimeter	-	4 Nos.
4.	Tong tester	-	4 Nos.
5.	Hand gloves of 33000v	-	2 Nos
6.	Safety belts	-	2 Nos.
7.	Hydrometer	-	3 Nos.
8.	Screwdriver set taparia	-	6 Sets
9.	Cutting Pliers, taparia	-	6 Nos.
10.	Ring/DE spanner set, taparia	-	3 Set
11.	Box spanner set	-	3 Nos.
12.	Allen key set, Taparia	-	3 Set
13.	Hammer	-	3 Nos.
14.	Tester 500v, Taparia	-	One to each Technician.
15.	Chisel Taparia	-	5 Nos.
16.	Single & double test lamp	-	3 Nos.
17.	Insulation removal knives	-	6 Nos.
18.	9 ft. stool type ladder	-	1 Nos.
19.	Gum boots	-	2 Sets
20.	Earth Megger	-	1 Nos.
22.	Torque Wrench	-	3 nos.
23.	Burner Lamp	-	3 nos.
24.	Cable cutting knife	-	3 set
25.	Crimping tool kit (hand)	-	1 set
26.	Crimping tool kit (hydraulic)	-	1 set
27.	Hack saw	-	3 nos.

Annexure -III**Documents to be attached with RA Bill**

Sl No.	Document	Periodicity	Availability Status
A	Copy of labour license (applicable, if contractor is engaging more than 20 workers)	With first bill	
B	Copy of comprehensive insurance cover (CAR policy/Workmen's Compensation Policy, whichever is applicable)	With first bill	
C	Copy of Contract Agreement	With first bill	
D	Gate Pass Details	With first bill	
E	Copies of Forms under Contract Labour (R&A) Act, 1970		
E.1	Register of persons in Form XIII	Every month	
E.2	Muster Roll in Form XVI	Every month	
E.3	Register of Wages in Form XVII	Every month	
F	Copies of Forms under Factories Act, 1948		
F.1	Form 11	Every month	
F.2	Form 12	Every month	
F.3	Form 13	Every month	
F.4	Form 14	Every month	
F.5	Form 15	Every month	
F.6	Form 16	Every month	
G	Copies of Forms under Employees' Provident Fund & Miscellaneous Provisions Act, 1952		
G.1	PF Challan	Every month	
G.2	Form 12A	Every month	
G.3	Form 2 (for new joiners)	Every month	
G.4	Form 11(revised) - for new joiners	Every month	
G.5	Form 3A	Every month	
G.6	Form 5	Every month	
G.7	Form 10	Every month	
G.8	Form 5A	With first bill	
G.9	Form 9	With first bill	
G.10	Form 6A	At the end of financial year	

DATA SHEETS FOR LIGHTING FIXTURE

For

Operation & Maintenance Works of Entire
Construction Power Supply System
For BCPL

BCPL

FIXTURE TYPE	DESCRIPTION	WATTAGE	MANUFACTURERE TYPE DESIGNATION
	and serrated Al. cross louvers suitable for 2x36 W compact fluorescent lamps.		
SFD16	Widespread mirror optics decorative ceiling/pendent luminaries suitable for 1x36 W fluorescent lamps.	1x36 W	Philips TCS 498/136 Bajaj BJPMS 136
RSD1	Wide spread, mirror optics decorative recess mounting fixture for use in areas with strip false ceiling having a reflector made of high purity aluminum sheet and fitted with serrated Al. cross louvers, suitable for 1x36 W fluorescent lamp.	1x36 W	Philips TBS-185/136 Bajaj BJMM-136 Crompton CRFA-14HSB
RSD2	Wide spread mirror optics decorative recess mounting fixture having a reflector made of high purity aluminum sheet and fitted with serrated Al. cross louvers across the mirror system for minimizing glare, suitable for 2x36 W fluorescent lamp.	2x36 W	Philips TBS-90 Bajaj BJLM-236 Crompton CRFD-24HSB
RSD6	Recess mounting luminaries with mirror system housing and dispersive anodised aluminum reflector for use in areas with strip false ceiling type suitable for 2x36W fluorescent lamp.	2x36 W	Philips TBS 285/236(DL) Darklite Crompton CRFD 24HSB Bajaj BJDL 236
RSD7	Same as above but with 4x18 W fluorescent lamp.	4x18W	Philips TBS 300/418M1 Crompton CRFL 42HSB Bajaj BJDL 418
RSD9	Recess mounting decorative fixture suitable for 4x18 W fluorescent lamp with dished opal acrylic cover.	4x18 W	Philips TBC-305/418(0) Crompton CRP 42H/TW Bajaj BJMP 420
RSD10	Recess mounting down-lighter fixture with 60/100W incandescent lamp.	1x60 W/ 1x100 W	Philips DN 622 Crompton DDLV 103C Bajaj BJDR 100
RSD12	Same as RSD6 but for single 36 W fluorescent lamp.	1x36 W	Bajaj BJDL 136 Philips TBS 185/136 (DL) Crompton CRFD 14 HSB
RSD13	Similar to RSD1 but suitable for 4x18W fluorescent lamps.	4x18 W	Philips TBS-305/418 Crompton CRFD 42HSB Bajaj BJMM 420
LB1	Low bay sheet steel fixture, with wide distribution mirror system, bracket mounting suitable for 70 W sodium vapour lamp.	1x70W	Philips SGK-27 Bajaj BJRLB-70SV Crompton LSA 7IH
LB2	Same as LB1 but with wire guard.	1x70W	Philips SGK-27 Crompton LSA 7IH Bajaj BJRLB 70SV/WG
LB3	Medium bay fixture made of sheet steel finished with stove enamel light grey. The housing is closed with clear toughened glass fitted with a robust MS frame with anodised aluminum reflector and complete with integral control gear, suitable for 125 W HPMV lamp.	1x125W	Bajaj BJRLB Crompton LMA 11121H/BC Philips HGK 27
HB1	Industrial high bay fixture with anodised aluminum reflector, suitable for 250 W HPMV lamp complete with integral ballast, capacitor etc.	1x250 W	Philips HDK-225HPL250 Crompton IMB1325IH Bajaj BJHBI-250
HB2	Similar to HB1 but with 400 W HPMV lamp	1x400 W	Philips HDK-225HPL400 Crompton IMB1340IH/P Bajaj BJHBI-400

FIXTURE TYPE	DESCRIPTION	WATTAGE	MANUFACTURERE TYPE DESIGNATION
IND1	Mounting rail type fixture suitable for 1 x 36 W fluorescent lamp made of stove enamel finish MS sheet steel housing.	1x36 W	Philips-TMC 501/136 Crompton-IGP13 14HSB Bajaj-BJIR-136, 140
IND2	Similar to IND1 but suitable for 2x36W fluorescent lamps.	2x36 W	Philips-TMC 501/236 Crompton-IGP13-24HSB Bajaj-BJIR-236
IND3	Industrial type fixture suitable for 1x36W fluorescent lamp made of stove enamel finish MS sheet steel housing and vitreous enamelled white reflector.	1x36 W	Philips-TKC 203/136 Crompton-IGE-1314/ RSE14 Bajaj-BJIV-136
IND4	Similar to IND3 but suitable for 2x36W fluorescent lamps.	2x36 W	Philips-TKC-203/236, Crompton-IGE1324/ RSE24 Bajaj BJIV-236
IND5	Similar to IND3 but with white epoxy powder coated from inside and outside with reflector.	1x36 W	Philips-TKC-203/136 Crompton-IGP-1314 /RPC14 Bajaj BJIE-136
IND6	Similar to IND5 but suitable for 2x36W fluorescent lamps.	2x36 W	Philips-TKC-203/236 Crompton-IGP 1324 /RPC24 Bajaj BJIE-236
SFD3	Pendent mounting decorative fixture suitable for 1x36W fluorescent lamp with opal acrylic cover	1x36 W	Philips TCS-19/136 Crompton-CPA 1114 HSB
SFD4	Ceiling/pendant mounting fixture suitable for 2x36 W fluorescent lamps with opal acrylic translucent diffuser and high import black polystyrene end plates.	2x36 W	Philips-TCS-19/236 Crompton-CPA 1124 HSB Bajaj BJP-236
SFD5	Ceiling/pendent mounting decorative fixture suitable for 2x36W fluorescent lamps with serrated Al. cross louvres.	2x36 W	Philips TCX-398 / 236 Bajaj BJSM-02/236 Crompton CMLM 24H/TW
SFD6	Wide spread decorative ceiling/pendent mounting fixture made of white stove enamelled sheet steel housing and aluminum mirror optic system to achieve wide light distribution and having a serrated Al. cross louvres suitable for 2x36 W fluorescent lamps.	2x36 W	Philips TCS-306/236 Bajaj-BJPMS-236, Crompton CSBW 1124 HSB
SFD9	Ceiling mounting decorative fixture suitable for 4x18 W fluorescent lamps with dished opal acrylic cover.	4x18 W	Crompton CSP 42H/TW Bajaj BJMP-420
SFD10	Similar to SFD9 but with prismatic louvre.	4x18 W	Crompton CRL 42H/TW/P Bajaj BJML-420
SFD12	Ceiling/wall mounting fixture with prismatic glass cover.	1x60 W/ 1x100 W	Crompton IBH-1110BC PHILIPS FXC101 Bajaj BJDB-100
SFD13	Wide spread mirror optics with decorative finish on ends. Ceiling/ pendant luminaries fitted with aluminum reflector and having serrated cross louvers suitable for 2x36 W fluorescent lamps.	2x36 W	Philips TCS 31/236 White Bajaj BJSM 236 Crompton CSBW 11 24HSB
SFD14	Widespread mirror optics decorative recess/surface mounting luminaries fitted with aluminum reflector and having serrated Al. cross louvers suitable for 2x36 W fluorescent lamps.	2x36 W	Philips TCS 306/236 Bajaj BJCM 236 Crompton CRFG 24HSB
SFD15	Widespread mirror optics ceiling mounted luminaries with high purity aluminum reflector	2x36 W	Bajaj BLSM 236 <i>CFIP 2</i> Crompton CRDI 236

FIXTURE TYPE	DESCRIPTION	WATTAGE	MANUFACTURERE TYPE DESIGNATION
HB3	Similar to HB1 but with a gasketed front glass cover.	1x250 W	Philips HPK-225/HPL250 Crompton IMB-1325IH/P Bajaj BJEHB-250MV
HB4	Similar to HB2 but with a gasketed front glass cover.	1x400 W	Philips HPK 225/HPL 400 Bajaj BGEHB-400MV/TE Crompton IMB-1340IH/P
HB5	Similar to HB1 but with 150W SON lamp.	1x150 W	Philips HPK-225 50N150 Bajaj BGEHB-150 SV Crompton SHB-1315 IH/P
HB6	Similar to HB1 but with 250W SON lamp.	1x250 W	Philips HPK-225 50N 250 Bajaj BGEHB-250 SV Crompton SHB-1325IH/P
HB7	Similar to HB1 but with 400 W SON lamp.	1x400 W	Philips HPK 225 50N 400 Bajaj BGEHB 400 SV Crompton SHB-1240IH
CM2	Chemical resistance fixture suitable for 2x36 W fluorescent lamp.	2x36 W	Philips TMX-95/236 Crompton IFV-1124HSB Bajaj BJI-236 VP
CM3	Similar to CM2 but suitable for 2x18W fluorescent lamps with reeded light stabilized clear acrylic cover (for use in indoor areas with high humidity and corrosive vapours).	2x18 W	Philips TDC-10/218 Bajaj BJI-218FG
CM4	Similar to CM3 but with 2x36W fluorescent lamps.	2x36 W	Philips TDC-10/236 Crompton IPFC-24HSB Bajaj BJI-236FG
CM5	Ceiling/pendent mounting drip proof and dust tight fixture suitable for 2x36 W fluorescent lamps with aluminum housing, stove enamelled grey outside and white inside with gasketed clear acrylic cover.	2x36 W	Philips TPW-11/236 Crompton IDJ-1124HSB Bajaj BJI-236
CM6	Dust & Vapour proof fixture suitable for 1x40W fluorescent lamp with glass sheet cover.	1x40W	Crompton IPFC 14HSB Bajaj BJI-136FG
COMPACT FLUORESCENT LAMP (CFL)			
CFL1	Wall/ceiling mounting fixture suitable for 9W CFL with opal acrylic diffuser.	1x9 W	Crompton TLN 91L Philips FWN 012 (OPAL) Bajaj BJEXL 19
CFL2	Recess mounted luminaries, fitted with anodised aluminum reflector suitable for 9W CFL.	1x9 W	Philips FBS-185 Crompton DDLV9 Bajaj BMR 109
CFL3	Ceiling mounted decorative luminaries, with mirror louvers suitable for 2x11 W CFL.	2x11 W	Crompton TLE 211 Philips FCS-518/211 Bajaj BJMS 211
CFL4	Recess mounted decorative luminaries, with mirror louvers suitable for 2x11W CFL.	2x11 W	Crompton TLD 211 Philips FBS-518/211 Bajaj BJMR 211
CFL8	Similar to CFL4 but suitable for 2xPL-L 36W CFL lamp	2x36 W	Philips FBS 300/236 P5HF Bajaj BMMR 236 CFL
OUTDOOR TYPE FIXTURES			
ST1	Street lighting fixture suitable for 2x36W fluorescent lamps made of stove enamelled grey aluminum canopy and acrylic transparent cover.	2x36 W	Philips TRC-33/236 Crompton SFE Bajaj BJSLA-236/240
ST2	Similar to ST1 but suitable for 2x18W fluorescent lamp.	2x18 W	Philips TRC-33/218

FIXTURE TYPE	DESCRIPTION	WATTAGE	MANUFACTURERE TYPE DESIGNATION
ST3	Street lighting fixture suitable for 125W HPMV lamp with cast aluminum housing stove enamelled grey outside and white inside, a pair of anodised aluminum reflectors and highly transparent clear acrylic sheet cover with hinge and toggle fastening, neoprene gaskets and integrated prewired ballasts etc.	1x125 W	Crompton MSC-1125 IH Bajaj BJMSD-125MV Philips HRP-48
ST4	Similar to ST3 but suitable for 250W HPMV lamp.	1x250 W	Crompton MSS-1525IH Bajaj BJMIP-250MV
ST8	Similar to ST3 but suitable for 70W HPSV lamp.	1x70 W	Philips SRP-48 Crompton SSC-1207 IH/WI Bajaj BJMSC-70SV
ST9	Similar to ST10 but suitable for 70W HPSV tubular lamp.	1x70 W	Crompton SSC-1207 IH/WI Bajaj BJMSC-70SV Philips SRY 066/70
ST10	Single piece die-cast aluminum body street light fixture with bowl type Al. reflector and with clear acrylic cover suitable for 150 W SON tubular lamp.	1x150 W	Philips SRP 501 Bajaj BGEST 150 Crompton SSG 1315 IH
PT1	Post top lantern suitable for 80W HPMV lamp with necessary control gear and housing attachment. (Integral type).	1x80 W	Crompton MPT-118IL Bajaj BJPTI-80MV Philips HPC-201/80
PT2	Similar to PT1 but suitable for 125W HPMV lamp. (Integral type).	1x125 W	Crompton MPT-112IL Bajaj BJPTI-125 Philips HPC 102/125
PT3	Similar to PT1 but suitable for 70W HPSV lamp. (Integral type).	1x70 W	Crompton SPT-1107IL Bajaj BJPTI-70 Philips SPC-101/70
PT5	Similar to PT4 but suitable for 9W CFL.	1x9 W	Philips FGC-100 Crompton CFBL-9 Bajaj BRBOL 111
BK1	Bulk head fitting with cast aluminum alloy body having stove enamelled finish (silver grey outside, white inside) and complete with prismatic front glass, wire guard, tropicalised gasket and BC lamp holder suitable for 100W GLS lamp.	1x100 W	Crompton IBH-1110BC Bajaj BJDB-100 Philips FXC 101
BK2	Similar to BK1 but with pressed aluminum body, finished stove enamelled grey outside white inside with frosted front glass fitted with tropicalised gasket and without wire guard.	1x100 W	Philips-FXC-101 Crompton IBH-1110BC
BK3	Industrial well glass fixture with cast aluminum alloy mounting piece and a sheet aluminum canopy stove enamelled white inside and grey outside with heat resistant glass and wire guard suitable for upto 200W GLS/160 W MLL.	1x100 W	Philips NDC-203 Crompton IWV-1120BC/ES Bajaj BJVW 200
BK4	Similar to BK3 but suitable for 125 W HPMV lamp with necessary control gear and housing attachment.	1x125 W	Philips NDC-203 Crompton IWV-1210BC/ES/VE Bajaj VWI 125 MV
BK5	Similar to BK3 but with additional vitreous enamelled reflector.	1x100 W	Philips NDC-203 Crompton IWV 20BL/Y Bajaj VWI 125/VE
FD1	Flood lighting fixture suitable for 250W HPMV lamp comprising of anodised aluminum housing and reflector with adjustable lamp holder, heat resistant front glass cover fixed to reflector by aluminum ring and rubber gasket	1x250 W	Bajaj BJEF-18(S) Philips MNF 14/250 Crompton FMD 1525

FIXTURE TYPE	DESCRIPTION	WATTAGE	MANUFACTURERE TYPE DESIGNATION
	(IP-54 enclosure).		
FD2	Similar to FD1 but suitable for 400W HPMV lamp.	1x400 W	Philips MNF 14/400 Bajaj BJEF-18 (S) Crompton FMD 1525
FD4	Flood lighting fixture suitable for 2x400W HPMV lamps made of cast aluminum with cooling fins, anodised reflector gasketed heat resisting glass front cover, easy relamping facility (without disturbing the beam direction) protector scale for quick day light adjustment.	2x400 W	Philips MNT-001 Crompton FHD-1224 Bajaj BJEF-22CA/ BGENF 22
FD6	Flood light fixture of cast aluminum housing and spun aluminum reflector heat resistant glass cover and adjusting facility suitable for 1x250W HPSV lamp. (IP-54 enclosure).	1x250 W	Philips MNF-14/25 Crompton-FMD 1525 Bajaj BJEF 18 (S)
FD7	Similar to FD6 but with 2x250W HPSV lamp.	2x250 W	Philips SNT-001/250 Bajaj BJEF-22 CA/ BGENF 22 Crompton FHD-1524
FD8	Similar to FD6 but with 1x400W HPSV lamp.	1x400 W	Philips MNF-14/400 Crompton FBD-14 Bajaj BJEF 215
FD9	Similar to FD6 but with 2x400W SON tubular lamp.	2x400 W	Philips SNT-001 / 400 Bajaj BJEF-22CA/ BGENF 22 Crompton FHD-1524
FD10	Similar to FD6 but suitable for 1x250W SON tubular lamp.	1x250 W	Philips SNF-14/250 Bajaj BJEF-14CAT Crompton FAD-1314
FD11	Similar to FD6 but suitable for 2x250W SON tubular lamp.	2x250 W	Philips SNT-001 / 250 Bajaj BJEF-22CA/ BGENF 22 Crompton FHD-1524
FD12	Similar to FD6 but suitable for 1x400W SON tubular lamp.	1x400 W	Philips SNF-14/400 Bajaj BJEF-14CAT Crompton FAD-1314
FD13	Similar to FD6 but suitable for 2x250W HPMV lamp.	2x250 W	Philips SNT-001 / 250 Bajaj BJEF-22CA/ BGENF 22 Crompton FHD-1524
FD14	Integrated flood lighting fixture of die-cast aluminum housing with ALGLAS reflector, heat resistant toughened clear glass cover suitable for 150 W HPSV lamp.	1x150 W	Bajaj BGEMF 1505 V Crompton FAMH 1215 IH
AV1	Neon aviation obstruction lighting fixture complete with neon lamp, designed to give omni directional steady 'ON' red colour light.	1x100 W	Bajaj BJAOL-1
AV2	Weatherproof LED cluster based aviation obstruction light complete with LEDs (Twin type)	Medium Intensity	

**FLAMEPROOF/INCREASED SAFETY TYPE
LIGHTING FIXTURE (ZONE-1 AND 2)**

FLP-1	Flameproof and weatherproof well glass lighting fixture for use in zone-1 classified areas with 100/200W incandescent lamp.	1x100 W / 1x200W	
FLP-2	Same as FLP-1 but with 160W ML blended lamp.	1x160 W	
FLP-3	Same as FLP-1 but with 80W HPMV lamp and separate control gear.	1x80 W	
FLP-3a	Same as FLP-3 but with integral control gear.	1x80 W	
FLP-4	Same as FLP-1 but with 125W HPMV lamp and separate control gear.	1x125 W	
FLP-4a	Same as FLP-4 but with integral control gear.	1x125 W	
FLP-5	Same as FLP-1 with 250W HPMV lamp and separate control gear.	1x250 W	
FLP-5a	Same as FLP-5 but with integral control gear.	1x250 W	
FLP-5b	Flameproof & WP Well glass lighting fixture with 400 W HPMV lamp.	1x400 W	
FLP-6	Flameproof and weatherproof flood lighting fixture with 500W incandescent lamp.	1x500 W	
FLP-7	Same as FLP-6 but with 250W HPMV lamp.	1x250 W	
FLP-8	Flameproof bulk head lighting fixture with 100W incandescent lamp.	1x100 W	
FLP-9	Same as FLP-6 but with 400 W HPMV lamp.	1x400 W	
FLP-10	Flameproof and weatherproof fluorescent lamp fixture suitable 2x36/40W fluorescent lamps with integrated choke box housing mounting clamps etc.	2x36/40 W	
FLP-11	Same as FLP-10 but for 2x20W fluorescent lamps.	2x20 W	
FLP-12	Flameproof and weatherproof LED cluster based aviation obstruction light complete with LEDs (Twin type)	Medium Intensity	
Exe-1	Weatherproof well glass increased safety lighting fixture for use in zone-2 classified areas with 100/200W incandescent lamp.	1x100 W	
Exe-2	Same as Exe-1 but with 160W blended lamp.	1x160 W	
Exe-3	Same as Exe-1 but with 80W HPMV lamp and separate control gear.	1x80 W	
Exe-3a	Same as Exe-3 but with integral control gear.	1x80 W	
Exe-4	Same as Exe-1 but with 125 W HPMV lamp and separate control gear.	1x125 W	
Exe-4a	Same as Exe-4 but with integral control gear.	1x125 W	
Exe-5	Same as Exe-1 but with 250 W HPMV lamp and separate control gear.	1x250 W	
Exe-5a	Same as Exe-5 but with integral control gear.	1x150 W	
Exe-6	Increased safety & WP Well glass lighting fixture for use in zone-2 classified areas with 400 W HPMV lamp.	1x400 W	
FLP IIC-1	Flameproof & WP Well glass lighting fixture with 200 W incandescent lamp for use in IIC classified areas.	1x200 W	

FLP IIC-2	Flameproof & WP Well glass lighting fixture with 80 W HPMV lamp for use in IIC classified areas.	1x80 W	
FLP IIC-3	Flameproof & WP Well glass lighting fixture with 125 W HPMV lamp for use in IIC classified areas.	1x125W	
FLP IIC-4	Flameproof & WP Well glass lighting fixture with 250 W HPMV lamp for use in IIC classified areas.	1x250 W	

NOTES:

1. All fixtures shall be complete with lamps.
2. All fluorescent/Mercury vapour/ Sodium Vapour fixtures shall be high power factor (Min. 0.9) type.
3. All fluorescent fixtures shall be fitted with low loss type (i.e. limited to 9W loss) ballast.
4. All 36 W fluorescent lamp can be replaced by 40W with the consultation of site engineer-in-charge.
5. All mirror optics luminaries should be epoxy powder coated.
6. Make of fixtures shall be embossed on the body.