



**NOTICE INVITING TENDER**

**FOR**

**PILING WORKS**

**FOR**

**BORED CAST-IN-SITU CONCRETE VERTICAL PILES**

**AT**

**GORAKHPUR, UTTAR PRADESH**

**NIT NO. : PNPM/EM-250/E/G-201**

**PREPARED AND ISSUED BY**



**PROJECTS & DEVELOPMENT INDIA LTD.**  
**(A Govt. of India Enterprise)**  
**PDIL Bhawan, A-14, Sector-1,**  
**NOIDA-201301, U.P., India**

***June, 2018***

 पी डी आई एल <b>PDIL</b>	<b>PROJECTS &amp; DEVELOPMENT INDIA LIMITED</b>	EM-250/E/G-201/P-I/LIB	0	 भारतीय रेलवे एवं मालवा परिवहन <b>HURL</b>
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## **LETTER INVITING BID**

**NIT NO. : PNP/EM-250/E/G-201**

**SUBJECT : PILING WORKS FOR BORED CAST-IN-SITU CONCRETE VERTICAL PILES  
AT GORAKHPUR, UTTAR PRADESH**

### **(OPEN DOMESTIC COMPETITIVE BIDDING)**

Dear Sir(s),

Projects and Development India Limited (PDIL), hereinafter referred to as CONSULTANT on behalf of Hindustan Urvarak & Rasayan Ltd. (HURL), hereinafter referred as OWNER, has the pleasure of inviting eligible bidders to submit Bid ONLINE through Central Public Procurement (CPP) Portal in Single Phase Two Bid System, for the subject Project in compliance with the NIT. The entire set of Bidding documents is also placed on the website at HURL website [www.hurl.net.in](http://www.hurl.net.in), PDIL website [www.pdil.in](http://www.pdil.in), and CPP Portal <http://eprocure.gov.in/cppp/>

### **BRIEF SCOPE OF WORK:**

Piling Works for Bored Cast-In-Situ Concrete Vertical Piles. The Scope of Work consists of mainly but not limited to the followings:-



Following are the Plants/Area where piling works are envisaged :

1.	Administrative Building	10.	Weigh Bridge
2.	Technical Building	11.	Fire Water Pump House
3.	Canteen	12.	Warehouse & Central Workshop
4.	Central Lab & First Aid	13.	Utility Sub-Station
5.	Urea Silo	14.	Effluent Treatment Plant
6.	Bagging Plant	15.	DM Plant
7.	Wagon Loading Platform	16.	Instrument Air
8.	Conveyor gantry and transfer tower	17.	Inert Gas
9.	OSBL Pipe Rack		

### **REFER PART-II, TECHNICAL PART FOR DETAILED SCOPE OF WORK**



**NIT Document consists of:**

**PART-I : COMMERCIAL PART**  
**PART-II : TECHNICAL PART**

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH LETTER INVITING BID	EM-250/E/G-201/P-I/LIB	0	
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**SALIENT FEATURES OF NIT :**

1.	<b>NIT NO.</b>	<b>PNPM/EM-250/E/G-201</b>
2.	Issue Date	18.06.2018
3.	Last Date & Time for Submission of Technical & Commercial Bid and Priced Bid (ONLINE through CPP)	17.07.2018, at 12:00 hrs. (IST)
4.	Date & Time of opening of EMD and Technical and Commercial Bid	18.07.2018, 12:00 hrs. (IST) onwards, at PDIL, Noida
5.	Earnest Money Deposit (EMD)	Rs.57,50,000.00 (Rupees Fifty Seven Lakhs Fifty Thousand only)
6.	Submission of EMD, in Original, at PDIL Noida	On or before Bid Submission Date i.e. 17.07.2018.
7.	Time Schedule	<b>16 Months</b> from the Effective Date of Contract
8.	Address for Communication with	
8.1.	Projects & Development India Limited (PDIL)	Projects & Development India Limited, Project Management Department PDIL Bhawan, A-14, Sector-1, Noida, U.P., India  Kind Attention: Mr. Sumit Kumar Project Manager Tel no. : 0120-2529842, Extn. 374 Fax no. : +91-120-2529801 E-mail : <a href="mailto:sumit.kumar@pdilin.com">sumit.kumar@pdilin.com</a>
8.2.	Hindustan Urvarak & Rasayan Limited (HURL)	Hindustan Urvarak & Rasayan Ltd., Core-2, 2 <sup>nd</sup> Floor, Scope Minar, Laxmi Nagar District Centre, Delhi-92  Kind Attention : Mr. Manish Goyal Senior Project Manager Tel no. : 011-22502267 Email : <a href="mailto:goyalm@hurl.net.in">goyalm@hurl.net.in</a>
8.3.	Contact Person for Site visit	Contact Person: Mr. Subodh Dixit Senior Project Manager, HURL Fertilizer Plant (FCI), Gorakhpur Mob.: +91-551-2261758 E-mail: <a href="mailto:subodhdixit@hurl.net.in">subodhdixit@hurl.net.in</a>
8.4.	NIT overview on websites	"Letter Inviting Bid" & "Instruction to Bidders" is available at following websites: HURL ( <a href="http://www.hurl.net.in">www.hurl.net.in</a> ) PDIL ( <a href="http://www.pdilin.com">www.pdilin.com</a> ) CPP Portal ( <a href="http://www.eprocure.gov.in">www.eprocure.gov.in</a> )

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The bidder shall submit the bid ONLINE through Central Public Procurement (CPP) Portal. However, Earnest Money Deposit (EMD) in Original / Documentary evidences regarding EMD Exemption along with No Deviation Certificate and Integrity Pact shall be submitted at PDIL, Noida on or before Bid Submission Date.

MSEs (Micro & Small Enterprises) are also exempted from submission of EMD in accordance with the provisions of PPP-2012. MSEs (Micro & Small Enterprises) are exempted from submission of EMD in accordance with the provisions of PPP-2012. However, Traders/Dealers/Distributors/Stockiest/Wholesaler are not entitled for exemption of EMD.

OWNER/CONSULTANT reserves the right to accept/reject any or all Bids without assigning any reason whatsoever.

Bids complete in all respects should reach on or before the Bid Due Date and time. **Bids through Fax / E-mails will not be accepted.** OWNER / CONSULTANT take no responsibility for delay, loss or non-receipt of Bid sent by post/courier. Please be noted that all the dates mentioned herewith are firm and OWNER / CONSULTANT expect strict adherence since this is a priority project.

Transfer of Bidding Document is not permissible.

Bidder may depute their representative with proper authorization letter to attend Technical and Commercial opening of bids.



Eligible bidders are requested to confirm their intention, within seven (07) days from the placement of NIT at CPP Portal, to participate in subject bidding through a letter or fax message

Thanking you,

For & on behalf of  
Hindustan Urvarak & Rasayan Limited





**(SUMIT KUMAR)**  
**Project Manager**  
**PDIL, Noida**

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SECTION - 3.0	HEALTH, SAFETY AND ENVIRONMENT (HSE) MANAGEMENT
SECTION - 4.0	SCHEDULE OF RATES (SOR)



# PART-I

## COMMERCIAL

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# PART-I : COMMERCIAL

## SECTION – 1.0

### INSTRUCTIONS TO BIDDERS



0	09.05.2018	FOR TENDER	SK	KJ	RRK
REV.	DATE	PURPOSE	PREPARED	REVIEWED	APPROVED



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## INSTRUCTION TO BIDDERS

### 1.0 INTRODUCTION

1.1. Government of India has formed a joint venture company of M/s. National Thermal Power Corporation Ltd. (NTPC), M/s. Coal India Limited (CIL), M/s. Indian Oil Corporation Ltd. (IOCL) & FCIL/HFCL by name M/s Hindustan Urvarak & Rasayan Ltd. (HURL) hereinafter also referred to as “OWNER”, for setting up a brown field Ammonia Urea Complex along with its associated offsite & utility facilities at existing fertilizer complex of FCIL, Gorakhpur, in the State of Uttar Pradesh.

1.1.1 Projects & Development India Ltd. (PDIL) has been retained as Consultant for providing Engineering Consultancy Services and Project Management Services for the aforesaid project.

### 1.2 LOCATION OF THE PROJECT SITE

The existing Gorakhpur Fertilizer unit of FCIL is located at about 12 km north from Gorakhpur town in eastern part of Uttar Pradesh on NH-28. It has good connectivity both by road and rail. The nearest airport Gorakhpur Air Port which is 21 km from Gorakhpur Fertiliser unit and has flights to and from Delhi via Lucknow and Kolkata via Patna.

### 2.0 SCOPE OF PROPOSAL

Piling Works for Bored Cast-In-Situ Concrete Vertical Piles. The Scope of Work consists of mainly but not limited to the followings:-



Following are the Plants/Area where piling works are envisaged :

1.	Administrative Building	10.	Weigh Bridge
2.	Technical Building	11.	Fire Water Pump House
3.	Canteen	12.	Warehouse & Central Workshop
4.	Central Lab & First Aid	13.	Utility Sub-Station
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6.	Bagging Plant	15.	DM Plant
7.	Wagon Loading Platform	16.	Instrument Air
8.	Conveyor gantry and transfer tower	17.	Inert Gas
9.	OSBL Pipe Rack		

### **REFER PART-II, TECHNICAL PART FOR DETAILED SCOPE OF WORK**

### 3.0 BIDDING DOCUMENTS

The bidder is expected to examine the bidding documents, including all instructions, Pre-Qualification Criteria, Forms, Annexure, Terms and Conditions of Contract, Specifications, Drawings and other documents and to fully familiarize itself with the requirements of the bidding documents. Failure to furnish all the information required by the Bidding

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Documents or the submission of a bid not substantially responsive to the Bidding Documents in every respect may result in the rejection of the Bid.

In case of any inconsistency, in the interpretation of meaning of any part of this Tender Documents, the BIDDER shall give his best endeavor to resolve the inconsistency by expressing his assumption through his proposal to OWNER.

#### **4.0 AMENDMENT OF BIDDING DOCUMENTS**

Bidders shall examine the Bidding documents thoroughly and inform the OWNER of any apparent conflict, discrepancy or error.



At any time prior to the deadline for submission of bids as well as upto priced bid opening, the OWNER may, for any reason whether at its own initiative or in response to a clarification or modification requested by any prospective Bidder(s), modify the Bidding documents, if required.

Notice of issuance of any Amendment to the bidding document (Corrigendum/Addendum/Amendment) if any, shall be hosted on PDIL website and shall not be advertised in press. The same shall also be notified in the websites of any one or more of the JV companies comprising HURL (viz. IOCL, NTPC, CIL & FCIL/HFCL). Bidders are therefore advised to visit the website regularly for downloading the details of amendment to bidding document. The Bidders will be required to acknowledge notification of any such amendment to the Bidding documents. Bidders shall confirm the inclusion of Addendum/Corrigendum in their bid and shall follow the instructions issued along with addendum/corrigendum

In order to afford Bidders reasonable time to take the amendment, issued prior to submission of Bids, into account in preparing their Bids, OWNER may, at its discretion, extend the deadline for the submission of Bids.

#### **5.0 LANGUAGE OF THE BID**

The Bid prepared by the Bidders and all correspondence and documents relating to the Bid exchanged by the Bidder and the CONSULTANT/ OWNER shall be written in the English language and all units shall be in Metric system. Any printed literature furnished by the Bidder may be written in another language, provided that such literature is accompanied by an English translation, in which case, for purpose of interpretation of the Bid, the English translation shall govern.

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## 6.0 TIME SCHEDULE



- 6.1 Bidder shall be required to complete the WORK under the CONTRACT in accordance with the following:

<b>Project Completion Date</b>	<b>16 Months from Effective Date of Contract</b>
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- 6.2 The “**Effective Date of Contract**” shall be the date of issuance of LOI (Letter of Intent) by the Owner.
- 6.3 The basic consideration and essence of the Contract is the strict adherence to the time schedules for performing the specified works as stipulated in the Contract.

## 7.0 SIGNATURE ON BIDS

- 7.1 The Bid must contain the name, designation and place of business of the person or persons making the Bid and must be signed and sealed, on each page, by the Bidder with his usual signature. The names of all persons signing should also be typed or printed below the signature. The Bidder shall submit authority letter / Power of Attorney / Board Resolution in favour of the authorized signatory(s) of the Bid. The Bidder's name stated on the proposal shall be the exact legal name of the Bidder.
- 7.2 Bids by bodies corporate/ limited Companies must be signed with the legal name of the Corporation/Limited Company by the President, Managing Director or by the Company Secretary or any other person or persons holding Power of Attorney for signing their Bid.
- 7.3 Power of Attorney issued by the Board of Directors / CEO / MD / Company Secretary of the Bidder/ all partners in case of Partnership Firm / Proprietor in favor of the authorized employee(s) of the Bidder, in respect of the particular tender for signing the Bid and all subsequent communications, agreements, documents etc. pertaining to the tender and to act and take any and all decision on behalf of the Bidder, is to be submitted. The authorized employee(s) of the Bidder shall be signing the Bid and any consequence resulting due to such signing shall be binding on the Bidder.
- 7.4 Bid shall contain no cuttings, erasures or overwriting except as necessary to correct errors made by the Bidder in which case each such corrections or other changes in the Bid documents shall carry the initials of the person(s) signing the Bid.
- 7.5 Bids not conforming to the above requirements of signing may be disqualified.

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## 8.0 PRE-QUALIFICATION CRITERIA (PQC)

Evaluation of Technical and Commercial offers shall be carried out for only those Bidders who shall meet the Pre-qualification Criteria.

## 8.1 TECHNICAL CRITERIA

- 8.1.1 The Bidder, meeting the requirements, must have executed **Similar Works\*** during last seven (07) years ending last day of the month previous to the one on which applications are invited, should be either of the following:

One completed Work with contract value not less than **INR 36 Crore**

OR

Two completed Works each works with contract value not less than **INR 23 Crore**

OR

Three completed Works each works with contract value not less than **INR 18 Crore**

**\*Similar Works means: Installation & Testing of Bored Cast-in-Situ Concrete Vertical Piles.**

To meet the criteria (8.1.1) above, the bidder shall submit attested photo copies as a documentary proof of the following documents-



- Work Orders with full technical details including Detailed Scope of the Work and Completion Period.
- Completion/Acceptance Certificate from End User/Owner regarding satisfactory completion indicating LOA / Work Order no., Name of Work, Contract Value, Scope of Work, Contract period and actual Date of Completion.

For clause 8.1.1, a Job executed by a Bidder for its own plant/ project cannot be considered as experience for the purpose of meeting PQC of the tender. However, jobs executed for Subsidiary / Fellow subsidiary / Holding company will be considered as experience for the purpose of meeting PQC subject to submission of tax paid invoice (s) duly certified by Statutory Auditor of the Bidder towards payments of statutory tax in support of the job executed for Subsidiary / Fellow subsidiary / Holding company. Such Bidders to submit these documents in addition to the documents specified to meet PQC.

## 8.2 FINANCIAL CRITERIA

- 8.2.1 Average Annual financial turnover during three (03) financial years i.e. 2016-17, 2015-16 and 2014-15 of the bidder meeting the requirement as per clause above experience criteria should be at least **INR 13 Crore.**

- 8.2.2 Net Worth of the Company should be positive during financial year ending 31st March 2017.

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- 8.2.3 The Bidder will submit Solvency certificate not more than six months old from the date of issue of NIT from their Banker for a value not less than **INR 18 Crore** or minimum credit ratings of “A” from ICRA/CRISIL etc OR equivalent reputed institutions, OR financing/credit limits from bank of value not less than **INR 18 Crore** valid as on date of issue of ITB.

To meet the criteria (8.2.1 & 8.2.2) above, bidder shall submit Audited Annual Statements (Balance Sheet and Profit & Loss account) of the company for three (3) financial years i.e. 2016-17, 2015-16 and 2014-15.

### 8.3 AUTHENTICATION OF ALL DOCUMENTS SUBMITTED AGAINST PQC

All documents in support of Technical criteria of PQC to be furnished by the bidders shall necessarily be:

Duly certified / attested by Notary Public with legible stamp.

In support of Financial criteria of PQC, bidder is required to submit following

Shall submit “Details of Financial capability of Bidder” in prescribed format (as per Annexure-1.21), duly signed & stamped by a Chartered Accountant.



Further, a copy of Audited Annual Financial Statements submitted in bid shall be duly certified / attested by Notary Public with legible stamp.

Note : The Authentication of PQC Documents of the Bidders Qualified after Techno-commercial (unpriced) Evaluation may be checked through Original documents.

### 9.0 EARNEST MONEY DEPOSIT (EMD) AND COMPLIANCE TO ALL THE PROVISIONS OF THE BIDDING DOCUMENT/NIL DEVIATION

#### 9.1 EARNEST MONEY DEPOSIT (EMD)

- 9.1.1 Bids must be accompanied with 'Earnest Money Deposit (EMD) / Bid Security' in the form of 'Demand Draft' or 'Banker's Cheque' or 'Bank Guarantee'. The amount of EMD shall be as indicated in the LIB (Letter Inviting Bid). The Bidder shall furnish as part of his Bid, EMD in the form of a Bank guarantee.
- 9.1.2 In case EMD is submitted in form of BG, then the EMD offered shall be an irrevocable Bank Guarantee, issued by any scheduled nationalized bank on a non judicial stamp paper of appropriate value, on a stamp paper of appropriate value. Proforma of the Bank guarantee is enclosed as Annexure-1.11.
- 9.1.3 The Bank Guarantee shall be valid for a period of three (3) months beyond validity of the Bid. The amount shall be as indicated in the Letter Inviting Bid for this NIT. The Bank Guarantee shall be extended suitably if there is a delay in awarding the contract. The relevant extension shall be on Bidders' account.

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OR

EMD can also be furnished in the form of Demand Draft in favour of **M/s. Hindustan Urvarak & Rasayan Limited, payable at Delhi** for value as outlined in the Letter Inviting Bid for this NIT.

EMD will not carry any interest.

9.1.4 MSEs (Micro & Small Enterprises) are exempted from submission of EMD in accordance with the provisions of PPP-2012. MSEs (Micro & Small Enterprises) are exempted from submission of EMD in accordance with the provisions of PPP-2012. However, Traders/Dealers/Distributors/Stockiest/Wholesaler are not entitled for exemption of EMD.

9.1.4.1 The bidders shall submit the following documents in support of claiming the exemption of EMD:



- Documentary evidence that the bidder is a Micro or Small Enterprises registered with District Industries Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or MSEs who are having Udyog Aadhaar Memorandum or any other body specified by Ministry of Micro, Small and Medium Enterprises.
- The above document submitted by the bidder shall be duly certified (in original) by Notary or the Statutory Auditor of the bidder or a practicing Chartered Accountant (not being an employee or a Director or not having any interest in the bidder's company/firm) where audited accounts are not mandatory as per law or duly notarized by any Notary Public in the bidder's country.
- If the bidder does not provide the appropriate document or any evidence to substantiate the above, then it will be presumed that they do not qualify for any preference admissible in the Public Procurement Policy, 2012.

## 9.2 COMPLIANCE TO ALL THE PROVISIONS OF THE BIDDING DOCUMENT / NIL DEVIATION

The Bidders are advised that while making their Bid and quoting prices, all conditions may appropriately be taken into consideration. No deviation, whatsoever, is permitted by the Owner to the provisions of Bidding Documents and its subsequent Amendment(s) / Clarification(s) / Addenda / Errata if any, issued by the Employer. Bidders are required to certify their full compliance to the complete Bidding Documents and its subsequent Amendment(s) / Clarification(s) / Addenda / Errata if any, issued by the owner by submitting the 'No Deviation Certificate' as per Annexure-1.3 in the tender documents. In case the Certificate as per Annexure-1.3 duly signed and stamped is not furnished, the bid shall be rejected.

Acceptance of above shall be considered as Bidder's confirmation that any deviation to the Bidding Documents found anywhere in their Bid Proposal, implicit or explicit shall stand unconditionally withdrawn, without any cost implication whatsoever to owner, failing which the bid shall be rejected and bid security shall be forfeited



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- 9.2.3 Bidders shall submit their EMD in original / Documentary evidences regarding EMD Exemption along with No Deviation Certificate and Integrity Pact, at following address.

**The envelope shall be super scribed with:**

**“PILING WORKS FOR BORED CAST-IN-SITU CONCRETE VERTICAL PILES”**

PROJECTS & DEVELOPMENT INDIA LTD.  
(A Govt. of India Enterprise)  
PDIL BHAWAN, A-14, SECTOR-1,  
NOIDA-201301, U.P., INDIA

Kind Attention: Mr. Sumit Kumar, Project Manager  
EPBX No. + 91-120-2529842 / 43 / 47 / 51 / 53 / 54 Extn. 374  
Fax no. + 91-120-2529801 / 91  
E-mail : [sumit.kumar@pdilin.com](mailto:sumit.kumar@pdilin.com)

- 9.3 The bid must be accompanied by EMD in original along with No Deviation Certificate and Integrity Pact. The Owner/Consultant allows only those bids to be opened whose EMD in Original / Documentary evidences (as per clause no. 9.1.5) in support of claiming EMD exemption for MSEs has been received by the owner before the Techno-Commercial bid opening.
- 9.4 The EMD of unsuccessful Bidders will be returned by OWNER/CONSULTANT without any interest to the unsuccessful Bidders as promptly as possible on acceptance of Bid of the successful Bidder or when the Bidding process is cancelled by OWNER/CONSULTANT, whichever is later. Bidders may indicate the name and address in whose favour the said EMD shall be returned.
- 9.5 The successful Bidder's EMD will be discharged upon the Bidder accepting and signing the Contract and furnishing the Security cum Performance Bank Guarantee.
- 9.6 The EMD shall be forfeited and appropriated by OWNER/CONSULTANT in regard to the NIT without prejudice to any other right or remedy to OWNER under the following conditions:
- If a Bidder withdraws his Bid during the validity or extended validity period.
  - If the bid is varied or modified in a unilaterally by the bidder during the validity or extended validity period.
  - Any effort by the bidder to influence the Owner on bid evaluation, bid comparison or contract award decision.
  - In the case of a successful Bidder, if the Bidder fails to duly sign the CONTRACT within the stipulated timeframe, and/or meet the stipulations for signing the CONTRACT within the said timeframe.



OR

If the successful bidder is seeking modifications to the agreed terms and conditions after issue of Letter of Intent (“LOI”) and prior to signing of the Contract.

OR

If the successful bidder fail to furnish Security cum Performance Bank Guarantee within 30 days of issuance of the LOI.



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## 10.0 COST OF BIDS

The Bidder shall bear all costs associated with the preparation and submission of the Bid, and OWNER / CONSULTANT will, in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

## 11.0 MODIFICATION AND WITHDRAWAL OF BIDS



- 11.1 The Bidder may modify or withdraw its Bid after the Bid's submission, but before the last date and time of Bid submission as specified in this NIT provided that written notice of the modification or withdrawal is received by OWNER/ CONSULTANT prior to the deadline prescribed for submission of Bids.
- 11.2 A withdrawal notice may also be sent by E-mail in signed and scanned form not later than the deadline for submission of Bids.
- 11.3 In case any clarifications are sought by the OWNER/CONSULTANT after opening of tenders, then the replies of the Bidder should be restricted to the clarification sought. Any modification of a Bid by the Bidder (including a modification which has the effect of altering the value of the said Bid) after opening of Technical and Commercial Bids without specific reference by the OWNER shall render the Bid liable to be rejected without notice and without further reference to the Bidder.
- 11.4 No bid may be withdrawn in the interval between the deadline for the submission of bids and the expiration during the validity or agreed extension validity period duly agreed by the bidder. Withdrawal or unsolicited modification of a bid during this interval shall result in the Bidder's forfeiture of its EMD.

## 12.0 INFORMATION REQUIRED WITH THE BID

- 12.1 All technical information shall be furnished as per Part-II, Technical. In addition, the bidder shall ensure that Technical and Unpriced Commercial Bid has been submitted.
- 12.2 Requirement of Manpower / Equipment / Tools & Tackles for timely completion of the project.
- 12.2.1 Bidder shall furnish tentative month wise manpower requirement till completion of the job.
- 12.2.2 Bidder shall also furnish a tentative break up of equipments, tools & tackles for timely execution of job.

## 13.0 PRELIMINARY EXAMINATION

- 13.1 Full compliance to the complete provisions of the Bidding Documents and its subsequent Amendment(s) / Clarification(s) / Addenda / Errata if any, issued by the owner will be checked first in terms of para clause 9.2 above and other requirements of the bidding documents in respect of No deviation Certificate and Integrity pact. In case these documents duly signed and stamped are not found in separate envelope / techno-commercial bid and / or they are not found as per format of the bidding document, the bidder will be asked to furnish the same as per the format required as per the bidding document before price bid opening. Failure to comply with this requirement, the bid shall be rejected.



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- 13.2 The Owner/Consultant will examine the bids to determine whether they are complete, whether any computational errors have been made, whether the documents have been properly signed, whether validity of the Bid is in conformity with ITB and whether the bids are generally in order.
- 13.3 Prior to the detailed evaluation, the Owner/Consultant will determine the substantial responsiveness of each Bid with reference to the bidding documents. For purpose of this article a substantially responsive Bid is one, which conforms to all the terms and conditions of the bidding documents without material deviations. The Owner/Consultant's determination of a Bid's responsiveness is to be based on the contents of the Bid itself, without recourse to extrinsic evidence.
- 13.4 A Bid determined as substantially non-responsive is liable to be rejected by the Owner/Consultant and may not subsequently be made responsive by the Bidder by correction of the non-conformity.
- 13.5 The Owner/Consultant may waive any minor informality or non-conformity or irregularity in a Bid, which does not in their opinion constitute a material deviation.
- 13.6 Under two stage bidding system, after a preliminary screening based on both technical and un-priced commercial evaluation, Bidders will be short-listed. In the event that any clarifications are required, then such clarifications shall be obtained from such short listed bidders only. Based on the clarifications, the technically acceptable Bidders shall be asked to submit the revised price.

#### **14.0 LOCAL CONDITIONS**

- 14.1 It will be imperative on each Bidder to fully make aware himself of all local conditions and factors which may have any effect on the execution of the works covered under these specifications and documents. Bidder shall inspect the site, examine and obtain at its cost and responsibility, all information required and satisfy himself regarding all matters and things such as access to site, communications, transport, right of way, the type and number of equipment and facilities required for the work, availability of local labour, materials and their rates, local working conditions, weather, flood levels, sub-soil conditions, natural drainage, and all information that may be necessary for preparing its Bid, performance of work and other obligations and related matters. By submitting the Bid the Bidder shall be deemed to have acknowledged and agreed that ignorance of the site and other said conditions shall not be basis for any claim for compensation or extension of time or loss of profits etc. and the OWNER shall not be liable on account thereof in any manner whatsoever to the Bidder or any person claiming through or under the Bidder.
- 14.2 Bidders must before submission of their Bids, acquaint themselves with all applicable regulatory and other legal requirements pertaining to insurance and health, safety and environment requirement in India and rules related to work permit and visa requirements in India or in any way or manner affecting the performance of Scope of Work, the Contractor and the Plant operation and performance including social security, safety, pollution control, permits, licenses, and the other statutory requirements and regulations. The submission of a Bid by the Bidder will be construed as evidence that such an examination was made and the Bidder shall not raise at any time later any claims/disputes against the Owner and the Owner shall not be liable for the same in any manner whatsoever.

14.3 Deleted

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14.4 The Owner shall not entertain any request for clarification from the bidder, regarding such local conditions.

14.5 The Bidder shall be deemed to have prepared the Bid on the basis of its independent judgment and to have made all necessary allowances and provisions to ensure that the PROJECT will meet all technical specification prescribed hereunder in the tender document and will be entirely suitable for the purpose for which it is intended. Accordingly, at the time of submission the Bid Price will, without extra price and/or extension of time, be held to include everything implicitly or otherwise required or necessary for the proper and timely completion of the WORK in accordance with the CONTRACT. Further, in case of any contract awarded under these specifications and documents, neither any change in the time schedule of the Contract nor any financial adjustments arising thereof shall be permitted by the Owner, which are based on the lack of such clear information or its effect on the cost of the works to the Bidder.

14.6 Visit to site at BIDDER's cost and expense.

#### 15.0 PRICE BASIS & CURRENCY OF BIDS

15.1 The Bidder shall quote in Indian Rupees only.

15.2 The price/rate to be quoted by the Contractor shall be fixed and firm shall be valid until completion of the Contract to be executed with the successful Bidder pursuant hereto and shall not be subject to variation/escalation on any account except as otherwise specifically provided in the Contract documents.

15.3 Site is located at Gorakhpur, U.P., India and the bidder are required to check & confirm before bidding for applicability of all taxes & duties for the procurement of supply and service by them for the execution of contract.

15.4 The Bidders shall quote in their proposals, the firm price for the entire scope of work as per Schedule of Prices, **(Refer Section-4.0 of Part-II, Technical)**, inclusive of all taxes, duties, levies etc. except GST. GST amount will be quoted separately which will be reimbursed at actual by the owner limited to the GST amount indicated by the bidder in their bid.

15.5 All bank charges of bidders bankers shall be to the Bidder's account and all Bank charges of Owner's bankers shall be to Owner's account.

15.6 Income Tax, or any other tax and surcharge as applicable shall be deducted at source from the bills of the contractor and a certificate to that effect shall be issued by the Owner.



#### 16.0 CONSORTIUM BIDS

Joint Venture / Consortium Bids are not acceptable.

#### 17.0 NUMBER OF BIDS

17.1 A bidder shall on no account submit more than one bid either directly or indirectly.

17.2 A bidder shall be deemed to have submitted an indirect bid if a subsidiary of the bidder is also a direct or indirect bidder in an independent bid or if the bidder or its subsidiary has

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with its consent been indicated as a sub-contractor in any other bid or even if not so indicated has entered into any arrangement (whether disclosed or undisclosed) with any other bidder or with a sub-contractor of that bidder for the performance of any work for that other bidder upon an award of the work to that other bidder.

- 17.3 If a bidder makes more than one bid and/or directly or indirectly participates in another bid as contemplated under 17.2 above, all the bids of the bidder, including the bid of the bidder in whose bid the first named bidder has directly or indirectly participated, may be considered as cartel bids and may be rejected. If the factum of such bid(s) is discovered after the notification of award, the resultant contract shall be liable to be terminated pursuant to the provisions for termination contained in the General Conditions of Contract.

## 18.0 CONFIDENTIALITY OF DOCUMENTS

Bidders shall treat the bidding documents and contents therein as strictly confidential.

## 19.0 TAXES AND DUTIES



- 19.1 The Prices/Rates shall include all taxes & duties, levies etc. including but not limited to custom duty, personnel and corporate tax, except GST. GST amount will be reimbursed at actual by the owner limited to the GST amount quoted by the bidder in their bid.
- 19.2 Bidders are required to ascertain themselves the prevailing rates of applicable taxes & duties including income tax rates as applicable on the scheduled date of submission of price bids and Owner would not undertake any responsibility whatsoever in this regard. However, due to any subsequent change in law, liability of the Owner as regards to payment of duties and taxes would be governed by Clause 39.0 of Special Conditions of Contract on subsequent legislation.
- 19.3 Please note that the responsibility of payment of above taxes thereupon lies with the Service Provider only. Contractor providing taxable service shall issue an Invoice as per the law, a Bill or as the case may be, a Challan which is signed, serially numbered and in accordance with GST rules. The invoice shall also contain the following:

- (a) Name, Address & GST Registration No. of such Person/Contractor
- (b) Name & Address of the Person/Contractor receiving Taxable Service
- (c) Description, Classification & Value of Taxable Service provided like HSN/SAC Code.
- (d) GST Amount & Cess thereupon, if any.

Payments to Service Provider for claiming GST amount will be made provided the above formalities are fulfilled. Further, OWNER may seek copies of challan and certificate from Chartered Accountant for deposit / submission of Return of GST thereupon collected from Owner.

Any changes in statutory rules and regulations under GST regime shall be followed by Contractor.

***Refer Annexure-1.20 of Part-I, Commercial for General Guidelines for Goods & Service Tax (GST).***

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## 20.0 DETERMINATION OF BID'S RESPONSIVENESS

20.1 The Owner's determination of a bid's responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence. If a bid is not substantially responsive, it will be rejected by the Owner, and may not subsequently be made responsive by the Bidder by correction of the nonconformity.

20.2 It is important that Bidder clearly demonstrates his experience and capability, giving OWNER/CONSULTANT a high level of confidence that if awarded, the Bidder will be able to perform the works within the stipulated Time Schedule and quoted rate/price and meeting all other requirements listed in the Bidding document.

20.3 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 incomplete/incorrect, the same may be considered as adequate ground for rejection of the Bid.

20.3 Examination of bids and determination of responsiveness.

20.3.1 The owner's determination of bid's responsiveness is based on the content of the bid only. Prior to the detailed evaluation of Bids, the Owner will determine whether each Bid:-



- (a) Meets the "Pre-Qualification Criteria" of the Bidding Documents;
- (b) Has been properly signed;
- (c) Is accompanied by the required 'Earnest Money';
- (d) Is substantially responsive to the requirements of the Bidding Documents; and
- (e) Provides any clarification and/or substantiation that the Owner may require to determine responsiveness pursuant to Clause-20.3.2 of this ITB

20.3.2 A substantially responsive Bid is one which conforms to all the terms, conditions and specifications of the Bidding Documents without material deviations or reservations or omissions for this purpose Owner defines the foregoing terms below:-

- (a) "Deviation" is departure from the requirement specified in the tender documents.
- (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirement in the tender documents.
- (c) "Omission" is the failure to submit part or all of the information or documentation required in the tender document.

20.3.3 A material deviation, reservation or omission is one that,

- (a) If accepted would,
  - i) Affect in any substantial way the scope, quality, or performance of the job as specified in tender documents.
  - ii) Limit, in any substantial way, inconsistent with the Tender Document, the Owner's rights or the tenderer's obligations under the proposed Contract.
- b) If rectified, would unfairly affect the competitive position of other bidders presenting substantially responsive bids.

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- 20.3.4 The Owner shall examine all aspects of the bid to confirm that all requirements have been met without any material deviation, reservation or omission.
- 20.3.5 If a Bid is not substantially responsive, it may be rejected by the Owner and may not subsequently be made responsive by correction or withdrawal of the material deviation, reservation or omission.

## 21.0 SUBMISSION OF BIDS

- 21.1 The Bid shall be submitted in electronic format (through CPP portal) as per time schedule mentioned in the Letter Inviting Bid.



The Bidder shall submit Bid Security / EMD in physical form only at the address mentioned at Clause 9.0 of Instruction to Bidders.

## 21.2 Instruction for Online Submission of Bid



**Instructions to the Bidders to submit the bids online through the Central Public Procurement Portal for e-Procurement at <https://eprocure.gov.in/eprocure/app>**

- 1) Possession of valid Digital Signature Certificate (DSC) and enrolment/registration of the contractors/bidders on the e-procurement / e-tender portal is a prerequisite for e-tendering.
- 2) Bidder should do the enrolment in the e-procurement site using the “Click here to Enroll” option available on the home page. Portal enrolment is generally free of charge. During enrolment/registration, the bidders should provide the correct/true information including valid email id. All the correspondence shall be made directly with the contractors/bidders through email id provided.
- 3) Bidder need to login to the site thro’ their user ID/ password chosen during enrolment/registration.
- 4) Then the Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by SIFY / TCS / nCode / eMudra or any Certifying Authority recognized by CCA India on eToken / SmartCard, should be registered.
- 5) The DSC that is registered only should be used by the bidder and should ensure safety of the same.
- 6) Bidder may go through the NIT / tenders published on the site and download the required NIT documents/schedules for the tenders he/she is interested.
- 7) After downloading / getting the NIT/ Tender document/schedules, the Bidder should go through them carefully and then submit the documents as asked, otherwise bid will be rejected.
- 8) If there are any clarifications, this may be obtained online thro’ the tender site, or thro’ the contact details. Bidder should take into account the corrigendum published before submitting the bids online.



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- 9) Bidder then logs in to the site through the secured log in by giving the user id/ password chosen during enrolment/registration and then by giving the password of the e-Token / Smart Card to access DSC.
- 10) Bidder selects the tender which he/she is interested in by using the search option & then moves it to the 'my tenders' folder.
- 11) From my tender folder, he / she selects the tender to view all the details indicated.
- 12) It is construed that the bidder has read all the terms and conditions before submitting their offer. Bidder should go through the tender schedules carefully and upload the documents as asked otherwise, the bid will be rejected.
- 13) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document/schedule and generally, they can be in PDF/xls/rar/zip/dwf formats. If there is more than one document, they can be clubbed together and can be provided in the requested format. Each document to be uploaded through online for the tenders should be less than 2 MB. If any document is more than 2MB, it can be reduced through zip/rar and the same can be uploaded, if permitted. Bidders Bid documents may be scanned with 100 dpi with black and white option. However of the file size is less than 1 MB the transaction uploading time will be very fast.
- 14) If there are any clarifications, this may be obtained through the site, or during the pre-bid meeting if any. Bidder should take into account the corrigendum published from time to time before submitting the online bids.
- 15) The Bidders can update well in advance, the documents such as certificates, annual report details etc., under My Space option and these can be selected as per tender requirements and then send along with bid documents during bid submission. This will facilitate the bid submission process faster by reducing upload time of bids.
- 16) Bidder should submit the EMD as specified in the tender. The original should be posted/couriered/given in person to the Tender Inviting Authority, within the bid submission due date & time for the tender. Scanned copy of the instrument should be uploaded as part of the offer.
- 17) While submitting the bids online, the bidder reads the terms & conditions and accepts the same to proceed further to submit the bid packets.
- 18) The bidder has to select the payment option as offline to pay the Tender FEE/ EMD as applicable and enter details of the instruments.
- 19) The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise submitted bid will not be acceptable.
- 20) The bidder has to digitally sign and upload the required bid documents one by one as indicated. Bidders to note that the very act of using DSC for downloading the bids and uploading their offers shall be deemed to be a confirmation that they have read all sections and pages of the bid document including General conditions of contract without any exception and have understood the entire document and are clear about the requirements of the tender requirements.



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- 21) The bidder has to upload the relevant files required as indicated in the cover content. In case of any irrelevant files, the bid will be rejected.
- 22) If the price bid format is provided in a spread sheet file like BoQ\_xxxx.xls, the rate offered should be entered in the allotted space only and uploaded after filling the relevant columns. The Price Bid / BOQ template must not be modified/ replaced by the bidder; else the bid submitted is liable to be rejected for this tender.
- 23) The bidders are requested to submit the bids through online e-tendering system to the Tender Inviting Authority (TIA) well before the bid submission end date & time (as per Server System Clock). The TIA will not be held responsible for any sort of delay or the difficulties faced during the submission of bids online by the bidders at the eleventh hour.
- 24) After the bid submission (i.e. after Clicking “Freeze Bid Submission” in the portal), the acknowledgement number, given by the system should be printed by the bidder and kept as a record of evidence for online submission of bid for the particular tender and will also act as an entry pass to participate in the bid opening date.
- 25) The time settings fixed in the server side & displayed at the top of the tender site, will be valid for all actions of requesting, bid submission, bid opening etc., in the e-tender system. The bidders should follow this time during bid submission.
- 26) All the data being entered by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered will not viewable by unauthorized persons during bid submission & not be viewable by any one until the time of bid opening.
- 27) Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 28) The confidentiality of the bids is maintained since the secured Socket Layer 128 bit encryption technology is used. Data storage encryption of sensitive fields is done.
- 29) The bidder should logout of the tendering system using the normal logout option available at the top right hand corner and not by selecting the (X) exit option in the browser.

**Note:** A bidder shall submit only one bid in the same bidding process. A Bidder who submits more than one bid will cause all their bids disqualified in the said bidding process.

- 21.3 The Bidder is expected to examine all instructions, forms, terms and conditions in the NIT. The NIT together with all its attachments thereto, shall be considered to be read, understood and accepted by the Bidders. Failure to furnish all information required or submission of a Bid not responsive to the NIT in every respect will be at the Bidder's risk and may result in the rejection of the Bid.



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21.4 **Pre-qualification Bid and Technical & Commercial Bid** in two Sections, as specified below.

**SECTION-I : PRE-QUALIFICATION BID (Refer Clause 8.0)**

i.	Letter of Submission
ii.	Pre Qualification Criteria in favour of <b>Experience Criteria as per Exhibit-1</b> along with Copies of Work Orders, Certificates from End User/OWNER and completion certificates in support of prequalification requirement.
iii.	Pre Qualification Criteria in favour of <b>Financial criteria as per Exhibit-2</b> along with copies of Work Orders, Completion/ Acceptance certificates and Annual audited Report for the last three financial years. Annual Reports shall be a verifiable statement of annual accounts certified by a Chartered Accountant or Public Accountant in the form of printed annual reports or similar document.
iv.	<b>Format for Financial Capability of Bidder</b> as per Annexure-1.21
v.	<b>Solvency Certificate</b> from Bidder's bankers as per Annexure-1.18. Date of Issue of this certificate should not more than six months old from the date of issue of NIT.

**SECTION-II : TECHNICAL AND COMMERCIAL BID**

i)	Photocopy of Earnest money Deposit (EMD)
ii)	Power of Attorney of Bid Signatory from the Competent Authority
iii)	Tender Acceptance Letter as per Annexure-1.1
iv)	Commercial Questionnaire as per Annexure-1.2
v)	No Deviation Certificate as per Annexure-1.3
vi)	Details of Similar Works Executed as per Annexure-1.4
vii)	Current Commitments of the Bidder as per Annexure-1.5
viii)	Deployment Schedule of Supervisory Personnel as per Annexure-1.6
ix)	Deployment Schedule of Construction Equipment as per Annexure-1.7
x)	Details of Equipment Proposed to be used for this work as per Annexure-1.8
xi)	Contents of Bid and Check List as per Annexure-1.9
xii)	A declaration shall be submitted as per Annexure-1.14 to the effect that Bidder have or had not been banned or blacklisted/del-listed by any PSU / Government Organizations.
xiii)	Declaration by Bidder regarding Bidding Document as per Annexure-1.16
xiv)	Photocopy of Integrity Pact as per Annexure-1.17
xv)	EFT details as per Annexure-1.19
xvi)	A declaration shall be submitted to the effect that Bidder submitting their Bid is not under liquidation, court receivership or similar proceedings as per Annexure-1.22

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xvii)	Declaration by bidder for Past Safety Record as per Annexure-1.23
xviii)	Bidder to furnish PAN Number, TIN Number, PF/ESI Number, GST Number, Labor License Registration Number, Latest Income Tax Clearance Certificate / ITR etc. along with the bid.
xix)	<b>Price confirmation copy</b> - A Photocopy of the Schedule of Prices, to be submitted strictly as per <b>Section-4.0 of Part-II, Technical</b> , prices being blanked out and in place indicating “ <b>Quoted</b> ” against each head, shall be submitted duly signed and stamped.
xx)	Master Index along with a copy of complete set of Bidding Documents of all technical and commercial amendments/addendums if any issued, duly signed and stamped on each page as a token of having received and read all parts of the bidding document and having accepted and considered the same in preparing their bid.
xxi)	Any other information required in the Bidding Documents or considered relevant by the Bidder.

For convenience, the Bid shall be compiled in the form of Specific Sections conforming to the above. In case of non-submission of above documents or submission of incomplete documents, the OWNER/CONSULTANT reserves the right not to evaluate such offers further and not to enter into correspondence in this regard after opening the Technical and Commercial Bid.

## 21.5 PRICED BID

21.5.1 Priced Bid shall consist of in the following manner:



- (i) Preamble to Price Bid.
- (ii) Priced Bid, duly filled in and completed in all respects, as per **Section-4.0 of Part-II, Technical** given in the Bidding Documents.

21.5.2 Priced Bid shall be submitted duly signed and stamped on each page. This part shall not contain any condition whatsoever failing which the Bids shall be liable to be rejected. In case of any correction, the bidder shall put its signature and its stamp. Eraser fluid will not be allowed for making any correction.

**If the bidder fails to quote for any item in the price bid, it will be implied that such item is included elsewhere in the quoted prices. Also, wherever bidder has indicated “Not Applicable” / “Nil” and the same is required during execution of the contract it will be considered as included in the price.**

21.5.3 Prices must be strictly filled in format for “Schedule of Rates as per Section-4.0 of Part-II, Technical” 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.

21.6 The Priced Bid shall also indicate total prices in figures as well as in words. The prices should be strictly quoted as specified in **Section-4.0 of Part-II, Technical** otherwise the Bid may be rejected. The priced Bid containing any comments, remarks, conditions

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deviations etc, which is not indicated in the Technical and Commercial Bid, is liable to be rejected.

## **22.0 DEADLINE FOR SUBMISSION OF BIDS:**

- 22.1 Bids must be submitted not later than the time and date as specified in the Letter inviting Bid.
- 22.2 The OWNER/ CONSULTANT may extend this deadline for the submission of Bids by amending the NIT documents in accordance with Clause No. 4.0 above. In such case all rights and obligations of the OWNER and Bidders under this NIT shall be subject to the extended deadline.
- 22.3 Any bid received after the deadline specified in the NIT or as extended shall be liable to be rejected.

## **23.0 OPENING OF BIDS**

- 23.1 Owner / Consultant will open Bids in the presence of Bidder's representatives who choose to attend at Date and time specified on cover page of NIT or as informed by Owner / Consultant. The Bidder's representative(s) present during the Bids opening shall sign a Bids opening record sheet evidencing their attendance.
- 23.2 The Bidder's name, modifications, Bid withdrawal and such other details, as the Owner / Consultant at its discretion may consider appropriate, will be announced during Bids opening. The owner allow only those bids to be opened whose EMD in original has been received by the owner before the Techno-Commercial bid opening.
- 23.3 The Bids shall be opened and evaluated in two stages:

### **23.3.1 STAGE-I: OPENING & REVIEW OF EMD, PRE-QUALIFICATION BID, TECHNICAL AND COMMERCIAL BIDS**



On the date of Public Bid opening as indicated on the Letter Inviting Bid of this NIT, cover containing EMD shall be opened and reviewed.

The OWNER / CONSULTANT will review the Bank Guarantee (BG) submitted by Bidder against EMD, with respect to:

- its value,
- validity &
- issuing Bank.
- the format attached with the tender document.

In case, the Bidder has not submitted the EMD or the BG submitted by the Bidder is not as per the requirement of NIT with respect to the above mentioned parameters, the Bids submitted by them may be rejected.

If the EMD submitted by the Bidder is found to be in order with respect to above mentioned parameters but if there is a minor deviation with respect to the format enclosed with the NIT, the OWNER /CONSULTANT may at its discretion inform the Bidder who shall have to rectify the same before the date of opening of the Price Bid. In case the

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Bidder fails to rectify the EMD, its Bids will be rejected and the Bidder will be informed to take back its Bid, including the Price Bid.

EMD exemption will be applicable Micro and Small Enterprises (MSEs) subject to submission of documents as bought out at clause no 9.1.5.

In case of MSEs the certificate will be verified for registration and validity. The certificate shall be valid as on date of opening of bid. If the bidder meets this requirement, their bid will be processed further. If not, the bidder will be asked to submit the EMD. In case the bidder does not submit the EMD within 7 calendar days of HURL/PDIL intimation, then their bid shall be rejected.

Thereafter, OWNER / CONSULTANT will open, Pre-qualification Bid, Technical and Commercial Bids of those Bidders, whose EMD is found to be in order as described here above.

OWNER / CONSULTANT will first review Pre-qualification requirement. Technical and Commercial Bids shall be evaluated only for those bidders whose bid is found to be Pre-qualified based on the Pre-qualification Criteria.

The owner, at its discretion, may hold post bid discussions with any one or all the bidders at a mutually suitable date & time. However, it will not be construed from invitation/ holding of post bid discussions that the bidders have been considered eligible for opening of their Price Bid. The discussion will cover all the aspects of bidder's offer in the Techno-commercial proposal

### **23.3.2 STAGE – II: OPENING OF PRICE BID**

Before opening the Priced Bid of the technically and commercially acceptable Bidders, if required, a meeting with the Bidders shall be arranged. Date and Venue of such meeting shall be informed at the appropriate time.



The date of the opening of the Price Bid shall be intimated to technically and commercially acceptable Bidders. The price bids of such shortlisted Bidders will be opened in the presence of Bidder's representative who chooses to attend, on the date and time to be intimated. The bidder's name, bid price and such other details as the OWNER at its discretion may consider appropriate, will be announced at the opening of price bids.

**The evaluation of the priced Bids shall be done as described under Clause No. 30.0 of the ITB.**

- 23.3.3 If the Bids as judged by the OWNER are unresponsive, the NIT may be declared void and a new procedure for selection of CONTRACTOR as deemed appropriate by OWNER may be adopted.

### **24.0 CORRECTION OF ERRORS**

Bids determined to be substantially responsive will be checked by the Owner / Consultant for any arithmetic errors. Errors will be corrected by the Owner / Consultant as follows:

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- (i) When there is a difference between the rates in figures and words, the rate which corresponds to the amount worked out by the Bidder (by multiplying the quantity and rate) shall be taken as correct.
- (ii) When the rate quoted by the Bidder in figures and words tallies but the amount is incorrect, the rate quoted by the contractor shall be taken as correct and not the amount and the amount shall be re-calculated/ corrected accordingly.
- (iii) When it is not possible to ascertain the correct rate, in the manner prescribed above, the rate as quoted in words shall be adopted and the amount worked out, for comparison purposes.
- (iv) All errors in totaling in the amount column and in carrying forward totals shall be corrected.

The amount stated in the Bid will be adjusted by the Owner / Consultant in accordance with the above procedure for the correction of errors. If the Bidder does not accept the corrected amount of Bid, its Bid will be rejected, and the EMD shall be forfeited.

## **25.0 POLICY FOR BID UNDER CONSIDERATION**

Bids shall be deemed to be "Under Consideration" immediately after they are opened and until such time that the official intimation of award / rejection is made by the OWNER / CONSULTANT to the Bidders. While the bids are under consideration, bidders and/or their representatives or other interested parties are advised to refrain from contacting by any means, the OWNER / CONSULTANT and/or his employees / representatives on matters related to the bids under consideration.

The OWNER / CONSULTANT, if necessary will obtain clarifications on the bids by requesting for such information from any or all the Bidders, either in writing or through personnel contact as may be necessary. The Bidder will not be permitted to change the substance of the bid after the bid had been opened.



## **26.0 DISCUSSIONS WITH BIDDERS DURING TECHNO- COMERCIAL EVALUATION**

After opening of the Bids, to assist in the examination, evaluation and comparison of Bids, OWNER / CONSULTANT may, at its discretion, ask the Bidder for clarification on its Bid. The request for such clarification and the response shall be in writing either through fax or email.

Further OWNER / CONSULTANT may ask BIDDER to visit OWNER's/ CONSULTANT's office for technical, commercial or financial clarifications.

BIDDER is expected to undertake such visits and participate in such meetings as and when called by the OWNER/ CONSULTANT. All costs related to such visits shall be borne by BIDDER.

Consequent upon the discussions, if required OWNER / CONSULTANT may issue final amendment to the bid document. Bidders shall be required to submit their unconditional acceptance to final amendment.

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Bidder may be given a chance to furnish supplementary price bid indicating the price implication in view of final amendment, if any. The price implication (positive/negative) shall be given in the Section-4.0S of Part-II, Technical. Section-4.0S of Part-II, Technical shall be the exact replica of Section-4.0 of Part-II, Technical, ~~SCHEDULE OF RATES~~ super scribed as SUPPLEMENTARY PRICE BID. The same shall be considered for the purpose of evaluation. OWNER/ CONSULTANT's decision in this regard shall be final and binding on the bidders.

After opening of the Price Bid, no change in the quoted rate/price shall be sought, offered or permitted.

## **27.0 EFFECT AND VALIDITY OF BID**

27.1 The submission of any bid connected with these documents and specifications shall constitute an agreement that the Bidder shall have no cause of action or claim against the OWNER/ CONSULTANT for rejection of his bid. The OWNER / CONSULTANT shall always be at liberty to reject or accept any bid or bids at his sole discretion and any such action will not be called into question and the Bidder shall have no claim in that regard against the OWNER/ CONSULTANT.

27.2 The bids should be kept valid for acceptance for a period of 120 Days from the date of opening of Technical and Commercial Bids. A Bid valid for shorter period may be rejected by the Owner as being non-responsive.

Under the exceptional circumstances, prior to expiry of the original Bid validity period, the OWNER/ CONSULTANT may request the Bidder for a specified extension in the period of validity. The request and the responses thereto shall be made in writing or by telefax or by E-mail.

27.3 In the event of OWNER/ CONSULTANT seeking extension of period of validity of the Priced Bids, the validity of EMD shall also be suitably extended.

27.4 A Bidder agreeing to the request of OWNER/ CONSULTANT seeking extension will not be required nor permitted to modify his bid, and will be required to extend the validity of his EMD correspondingly. However, Bidders request for revision/adjustment of Priced Bid under such circumstances may be considered by the OWNER/ CONSULTANT. The provisions of Clause-9.0 regarding discharge and forfeiture of EMD shall continue to apply during the extended period of Bid Validity.



## **28.0 COMPLETE SCOPE OF SUPPLIES / WORK**

28.1 The complete scope of supplies and work/services has been defined in the bidding documents. Only those bidders who take complete responsibility and who bid for the complete scope of supplies and work/services as contained in the bidding document shall be considered for further evaluation subject to meeting Pre-Qualification Criteria.

28.2 If the contractor is required to engage a sub-contractor for any part of work, then such sub-contractors shall have prior proven experience of similar work and shall require specific approval by OWNER.

28.3 If a proposed sub-contractor has been approved by the OWNER, the CONTRACTOR shall not replace such approved sub-contractor with another sub-contractor without obtaining the OWNER's prior approval for the proposed replacement.



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## 29.0 FIRM RATES / PRICE

The price quoted by the Contractor shall be fixed & firm and shall be valid until completion of the Contract, pursuant hereto and shall not be subject to variation / escalation on any account except as otherwise specifically provided in the Contract documents. The rates shall include all taxes & duties, levies etc. except GST. GST shall be paid extra at actual.

## 30.0 EVALUATION AND COMPARISON OF BIDS

### 30.1 General

30.1.1 The OWNER wishes to finalise the award of work of the facilities covered under this bidding documents within a limited time schedule. The bidders are advised to submit their bids complete in all respects conforming to all terms and conditions of the bid document.

30.1.2 Bids shall be evaluated based on the information / documents available in the bid. Hence bidders are advised to ensure that they submit appropriate and relevant supporting documentation along with their proposal in the first instance itself. Bids not complying with the requirements of Bid Documents are liable to be rejected. Bidders are advised to fill up all Annexure carefully and provide reference to all relevant documents given in their bid offer.

30.1.3 Bidders shall quote their prices on firm price basis. **The prices should be strictly quoted as specified in Section-4.0 of Part-II, Technical** otherwise the bid may be rejected. Any conditional discount offered by the bidder shall not be considered for the purpose of evaluation, however, the same shall be considered for purpose of award.

Correction of Errors (if any) shall be done as per clause 24.0 above. The comparison shall be on the basis of summation of the arithmetically corrected PRICE in SCHEDULE OF RATES (i.e. the Total of Section-4.0 of Part-II, Technical). The Owner's evaluation will also include the costs resulting from application of the evaluation procedures described in ITB Clause 30.2. Any adjustments in price that result from the below procedures as per ITB Clause 30.2 shall be added, for the purposes of comparative evaluation only.

30.1.4 The work is not bifurcated. Hence, evaluation of bids shall be done as per clause no. 30.2 below. The order will be placed on overall lowest basis.

30.2 The financial comparison for selection of Lowest (L-1) Bidder / Contractor shall be arrived by using the following methodology:



### 30.2.1 TOTAL EVALUATED PRICE

**Total Evaluated Price shall be derived as follows:-**

**a) Total Price quoted by the bidder plus GST charges (after arithmetical corrections as per clause no. 24.0 if any) in the Schedule of Rates (SOR).**

## 31.0 PRICE VARIATION

The Bidder shall quote firm rate in the “**Schedule of Rates (Section-4.0 of Part-II, Technical)**”. Firm rate shall not be subject to any escalation on any account. Bids with variable prices shall be disqualified.

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### **32.0 REBATE**

- 32.1 No suo-moto reduction in price(s) by Bidders is permissible after opening of the price bid. If any Bidder unilaterally reduces the price(s) / percentage quoted by him in his bid after opening of price bids, such reduction shall not be considered for comparison of prices but shall be binding on the Bidder if he happens to be selected for award of work

### **33.0 CONTACTING OWNER**

- 33.1 A Bidder shall not contact the OWNER/CONSULTANT on any matter relating to his bid from the time of priced bid opening to the time that the Contract is awarded, unless requested to do so in writing. Any effort by a Bidder to influence the OWNER/CONSULTANT in the OWNER's/ CONSULTANT's decisions in respect of bid evaluation or contract award will result in the rejection of that Bid.

### **34.0 AWARD OF CONTRACT**

- 34.1 Subject to ITB Clause 36.0, the OWNER will award the CONTRACT to the successful Bidder whose Technical and Commercial bid has been determined to be qualified, substantially responsive and Price Bid to be the lowest evaluated Bid, further provided that the Bidder is determined to be qualified to perform the CONTRACT satisfactorily.
- 34.2 After selection, Letter of Intent s ("LOIs") as per mode of contracting shall be released by the OWNER to the selected Bidder. The selected bidder will return the duplicate copy duly signed & stamped as token of acceptance within 15 days.
- 34.3 The Bidder shall enter into a Contract Agreement with the OWNER as per clause 35.0, failing which the Bid Security/EMD is liable to be forfeited.



### **35.0 SIGNING OF CONTRACT**

- 35.1 At the same time as the OWNER notifies the successful Bidder that its Bid has been accepted, the OWNER will send to the Bidder a draft of the Contract provided in the Bidding Documents, incorporating all agreements between the parties.
- 35.2 Within Thirty (30) days of receipt of the CONTRACT, the successful Bidder shall sign and date the Contract Agreement and return it to the OWNER. Cost of execution of the Contract, including payment of stamp duty thereon, shall be borne by the Bidder.

### **36.0 OWNER'S RIGHT TO ACCEPT / REJECT BIDS**

- 36.1 The OWNER reserves the right to accept or reject any Bid and to annul the bidding process and reject all Bids at any time prior to award of Contract without thereby incurring any liability to the affected bidder(s) or any obligation to inform the affected bidder(s) of the ground of OWNER's action.
- 36.2 It is observed that many bidders indulge in trading in contracts by entering into undisclosed back-to-back arrangements for the whole or a substantial portion of a CONTRACTOR's obligations under the contract. If a bidder proposes to enter into any such arrangements upon a successful award of work or has in place any such arrangement which will become operative upon the award of work, the bidder must make a complete disclosure of such arrangement or proposed arrangement in its proposal, and all



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provisions applicable to sub-contractor(s) in terms of bidding documents shall apply to such arrangements.

- 36.3 If the existence of such an undisclosed arrangement is reasonably apprehended by the OWNER in the case of a bidder, the OWNER may reject such bidder's bid as not responsive.
- 36.4 If such an undisclosed arrangement is discovered after the award of work, such arrangement(s) shall be deemed to constitute an assignment of contract and a ground of termination pursuant to the provisions of termination under the General Conditions of Contract.
- 36.5 Owner/Consultant reserves the right to accept or reject any tender in whole or part and/or accept other than the lowest quotation without assigning any reason. The whole work may be split up between two or more contractors if considered expedient by the Owner/Consultant on their sole and absolute discretion. The bidder shall have no claim in this regards whatsoever.

### **37.0 CONTRACT SECURITY CUM PERFORMANCE BANK GUARANTEE (CPBG)**



- 37.1 As a Contract Security, a successful Bidder, to whom the work is awarded, shall be required to furnish a Security cum Performance Bank Guarantee in the form attached as Annexure-1.12 within fifteen (15) days of issuance of LOI. This Bank Guarantee shall be an irrevocable Bank Guarantee, issued by any scheduled nationalized bank on a non judicial stamp paper of appropriate value. The Bank Guarantee amount shall be equal to ten per cent (10%) of the TOTAL CONTRACT PRICE and it shall guarantee the faithful performance of the CONTRACT in accordance with the terms and conditions specified in these documents and specifications. The Performance Bank Guarantee shall be valid for a period till Project Completion Date / Preliminary Acceptance of Work by Owner plus Defect Liability period of 12 months plus a claim period of 06 months. In case of breach of contract the guarantee amount shall be payable to the Owner without any conditions whatsoever.
- 37.2 Failure of the successful Bidder to comply with the requirement of Clause 37.1 hereof shall constitute sufficient grounds for forfeiture of Bid Security/EMD without prejudice to its rights and remedies as set forth in this NIT or otherwise in law.

### **38.0 INCOME TAX & CORPORATE TAX**

- 38.1 Income tax deduction shall be made from all payments made to the contractor as per the rules and regulations in force and in accordance with the Income Tax Act prevailing from time to time.
- 38.2 Corporate Tax liability, if any, shall be to the contractor's account.
- 38.3 MENTIONING OF PAN NO. IN INVOICE/BILL

As per CBDT Notification No. 95/2015 dated 30.12.2015, mentioning of PAN no. is mandatory for procurement of goods / services/works/consultancy services exceeding Rs. 2 Lacs per transaction.

Accordingly, supplier/ contractor/ service provider/ consultant should mention their PAN no. in their invoice/ bill for any transaction exceeding Rs. 2 lakhs. As provided in the

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notification, in case supplier/ contractor/ service provider/ consultant do not have PAN no., they have to submit declaration in Form 60 along with invoice/ bill for each transaction.

Payment of supplier/ contractor / service provider/ consultant shall be processed only after fulfillment of above requirement.



## **39.0 GENERAL INSTRUCTIONS**

### **39.1 TRANSFER OF TENDER DOCUMENTS/PROPOSAL**

- 39.1.1 Transfer of Bid submitted by one BIDDER to another is not permitted. No alteration in the essence of a Bid, once submitted, shall be permitted.
- 39.1.2 OWNER/CONSULTANT reserves the right to verify all statements/information submitted to confirm the Bidder's claim on experience on the performance of equipment offered and capabilities of the Bidder to perform the Scope of Work. OWNER/CONSULTANT may inspect similar facilities built by the Bidder. Bidder shall co-ordinate and arrange for visit. However all expenses of such visit of OWNER's Officials / OWNER's Representative will be borne by OWNER.
- 39.1.3 OWNER/CONSULTANT shall not entertain any correspondence with any Bidder on acceptance or rejection of any Bid.
- 39.1.4 Oral statements made by the Bidder at any time regarding any matter including quality, or arrangement of the equipment or any other matter will not be considered and will not be binding on the OWNER/CONSULTANT.
- 39.1.5 Standard catalogue pages and other documents of the Bidder may be used in the Bid to provide additional information and data as deemed necessary by the Bidder.
- 39.1.6 Bidder will furnish the Bid with all relevant information's as called for. Bids with incomplete information are liable for rejection.
- 39.1.7 If at any later date, it is found that documents, information and data submitted by the Bidder in the Bid, and based on which the Bidder has been considered eligible or successful or has been awarded the Contract is incorrect or false to the extent that had the correct or true information been made available to the OWNER at the time of Bid evaluation, the bid would have been declared ineligible or unsuccessful, the Bidder shall be forthwith disqualified or, as the case may be, the contract awarded based on such incorrect or false information shall be cancelled and the EMD/PBG shall be liable to be forfeited.

## **40.0 INTEGRITY PACT**

Bidders are required to unconditionally accept the "Integrity Pact (IP)", as per Annexure 1.17, (executed on plain paper) and submit the same duly signed on all pages by the bidder's authorized signatory along with the No Deviation Certificate, EMD / Documentary evidences in support of EMD exemption for MSEs . In case, Annexure-1.17 duly signed & stamped is not found in the sealed envelope / techno-commercial bid and / or is not found as per the format required as per the bidding document, the bidder will be asked to furnish the same before price bid opening. Failure to comply with this requirement, the bid shall be rejected.

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#### 41.0 RATES FOR EXTRA ITEMS

Rates for additional, altered or substituted work shall be determined by the Engineer-in-Charge as follows:-

- If the rate for the additional, altered or substituted item of work is not specified in the said schedule of quantities, the rate of that item shall be derived from the rate for the nearest similar item specified therein.
- If the rate for any additional, altered or substituted item of work cannot be determined in the manner specified in sub-para (a), then such item of work shall be carried out at the rate entered in the C.P.W.D. Delhi Schedule of Rates, 2016. The contractor to quote the % above or below the rates as mentioned in CPWD Schedule of Rates Delhi 2016.
- If the rate for any additional, altered or substituted item of work can not be determined in the manner specified in sub para (a) to (b), the contractor shall within 7 days of the date of receipt of the order to carry out the said work, inform the Engineer-in-charge of the rate which he proposes to Claim for such item of work, supported by analysis of the rate claimed by the rate of labour and materials. In the event of the contractor failing to inform the Engineer-in-Charge within the stipulated period of time and rate which he proposes to claim, the rate for such item shall be determined by the labour and materials and quantum of labour and materials as per actual observation, provided all these elements are justifiable, plus 15% to cover the contractor's profit and over head.
- If any altered, additional or substituted item of work ordered comprises of more than one part/sub item and each part/sub item could be priced in different manners according to the principles laid in sub para a to c, the decision of the Engineer-in-Charge as the appropriate principle of pricing applicable to the particular part/sub item shall be final.
- No deviation from specifications stipulated in this contract shall be made or additional items of work shall be carried out by the contractor unless the rates of such substituted, altered or additional items have been approved in writing by the Engineer-in-Charge failing which Owner shall not be liable to pay any claim on this account.

#### 42.0 BIDDER TO QUOTE FOR ALL ITEMS



The bidders shall quote their rates with reference to each item and must tender for each and all the items shown in the attached schedule of quantities.

#### 43.0 BIDDER TO SIGN ALL PAGES

All pages of the tender documents shall be signed and stamped by the bidder.

#### 44.0 ERASURES AND ALTERATIONS

Tenders containing erasures and alterations in the tender documents may be rejected. All rates shall be indicated both in words and figures. Where there is a difference between the rates quoted in words and figures, the rates given in words shall prevail.

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#### 45.0 INCOMPLETE AND LATE TENDER

Unsolicited/Incomplete/late tenders are liable to rejection without any further reference.

#### 46.0 EXECUTION OF CONTRACT

The successful bidder shall be required to execute contract with Owner within reasonable time.





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## PART-I : COMMERCIAL

### SECTION – 2.0



### GENERAL CONDITIONS OF CONTRACT

0	04.04.2018	FOR TENDER	SK	KJ	RRK
REV.	DATE	PURPOSE	PREPARED	REVIEWED	APPROVED

 <div>पी डी आई एल <b>PDIL</b></div>	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH <b>GENERAL CONDITIONS OF CONTRACT</b>	EM-250/E/G-201/P-I/ Sec.-2	0	 <div>हरियाणा उर्वरक एवं रासायनिक निगम <b>HURL</b></div>
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## GENERAL CONDITIONS OF CONTRACT

### ARTICLE-1: DEFINITIONS



In this contract the following words shall have the meaning herein assigned to them respectively.

- a. **i-“Tenderer”** means any person, firm or company invited to submit their tenders; including their authorised representative for the work.
- ii-“Bid/Tender”** shall mean offer/proposal/document that the bidder/tenderer submit in the required and specified form in accordance with the provisions of NIT duly signed by the bidder or authorized signatory under the seal of firm document, LOI.
- b. **“The Work”** means all duties, responsibilities and obligations to be discharged by the Contractor pursuant to the Scope of Work and Technical Specifications mentioned in the contract.
- c. **“The Contractor’s Equipment”** means all machinery, apparatus, materials and equipment to be provided by the Contractor pursuant to the Contract for and in connection with the work but not forming or intending to form a permanent part of Plant.
- d. **“Site”** shall mean the plants location at Gorakhpur for which this Purchase Order/Contract has been issued and where the Equipment / Works to be erected / executed. The location of plant site is in Gorakhpur, Uttar Pradesh.
- e. **“Date of Completion”** means the date specified in the body of the contract hereto or such later date as may be agreed to in writing from time to time by the Owner/Consultant.
- f. **“Month”** shall mean English Calendar month.
- g. **“Contractor” or “Supplier” or “Vendor”** shall mean any person, firm or company awarded the work through Letter of Intent and accepted by him/them.
- h. **“Purchaser / Owner / HURL”** shall mean **HINDUSTAN URVARAK & RASAYAN LIMITED (HURL)** having their site at Gorakhpur, Uttar Pradesh, India.
  - i) **“Consultant”** shall mean M/s Projects & Development India Ltd (PDIL) having their office at A-14, Sector-1, Noida, Dist.-Gautam Budh Nagar, UP- 201301, India is acting for and on behalf of M/s. Hindustan Urvarak & Rasayan Limited (HURL) for providing Consultancy Services for the Project.
  - ii) **“Engineer-In-Charge”** shall mean person designated as such By HURL or his duly authorized representative and includes those who are expressly authorized to act for and on its behalf respectively for operation of the contract and who will be in-charge of the works and under whose supervision and direction the work shall be carried out.

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- i. **“Principal Rotating Equipment”** shall mean those items of equipment comprising of centrifugal compressors, steam turbines, high pressure boilers feed pumps, from 3300 volts electric motors, turbine generator, diesel generator and gear boxes associated with any of these equipment.
- j. **“Goods”** means all of the Equipment, machinery, and/or other materials which the Supplier/Contractor is required to supply/execute to the purchaser under the Purchase Order/Contract.
- k. **“Services”** means supervision to installation, commissioning, provision of technical assistance, training and other such obligations of the Supplier covered under the Purchase Order.
- l. **“Subcontract”** shall mean Order/Contract placed by the Supplier/Contractor, for any portion of the Order or Work, after necessary consent of Owner/Consultant.
- m. **“Subcontractor”** or “Sub Vendor” or “Sub Supplier”- shall mean any person or persons or firm or their legal representatives, successors, assignees to whom part of Order has been sub-let by the Supplier/Contractor.
- n. **“Battery Limit”** shall mean the area within which Plant/Equipment are to be located.
- o. **“Plant”** shall mean entire assembly of the Equipment within specified Battery Limit.
- p. **“Drawings”** shall mean and include Engineering drawings, sketches showing plants, sections and elevations related to the Purchase Order/Contract together with modifications and/or revisions thereto.
- q. **“Specifications”** shall mean and include schedules, detailed description, statement of technical data, performance characteristics, standards (Indian as well as international) as applicable and specified in the Purchase Order/ Contract.
- r. **“Engineer”** shall mean the Engineer or Executive-in-charge at Site nominated by Owner/Consultant.
- s. **“Inspector”** shall mean any person or outside agency nominated or agreed by Owner/Consultant to inspect Equipment stage-wise as well as final inspection, before despatch, at Supplier's/Contractor's work and on receipt at Site as per the terms of the Purchase Order/ Contract.
- t. **“Tests”** shall mean such process or processes to be carried out by the Supplier as are prescribed in the Purchase Order/Contract or considered necessary by Owner/Consultant or their representatives in order to ascertain quality, workmanship, performance and efficiency of Equipment or part thereof.





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- u. **“Approval”** shall mean and include the written consent, either manuscript, type - written or printed statement, under signature or seal, as the case may be, of the Owner/Consultant or their authorized representative on documents, drawings or other particulars in relation to the Purchase Order.
- v. **“LOI/Work Order/Contract”** means the agreement entered into between Owner/Consultant and the Supplier, as recorded in the Purchase Order form, signed by the Owner & accepted by Supplier, including all attachments and Annexure thereto and all documents incorporated by reference therein together with any subsequent modifications thereof in writing.
- w. **“Contract Price”** means the price (excluding GST) payable to the Supplier/Contractor under LOI/Work Order/Contract for the full and proper performance of his contractual obligations.
- x. **“Schedule of rates”** shall mean the rates/percentage quoted by the tenderer with his tender/bid and which have been finally accepted by Owner.
- y. **“Effective date of Contract”** shall be the date of Issuance of Notification of Award (Letter of Intent) by Fax/Email/Letter unless otherwise agreed.
- Z1 **“Act/code”** shall mean any law, rules, regulations, notification, issued and passed by Central/State or local authority for the time being in force in India.
- Z2. **“Completion period”** shall mean the period of date on/by which the work shall be completed in all respect as agreed to between Owner and the contractor.
- Z3 **“Project”** shall mean the work under the contract.

## ARTICLE-2: CONTRACTOR’S SERVICES

- a. The Contractor shall supply material under scope and provide, execute, complete and maintain the work in Accordance with the Contract. The contractor shall also perform the services described in various sections of Invitation to Tender.
- b. The contractor undertakes to cooperate with the Consultant/Owner and other contractor’s appointed by the Owner for the Plant and agrees to exchange technical information as may be reasonably asked for to obtain most efficient and economical Plant for owner.
- c. The contractor shall be responsible for ensuring that the positions, levels and dimensions of the work are correct according to the Contract notwithstanding that he may have been assisted by the Consultant in setting out the said positions, levels and dimensions. Any discrepancies shall be promptly intimated to the Owner/Consultant for his final decision.
- d. The work to be done under the contract shall be executed with all due diligence and in the manner specified in the Contract and to the satisfaction of the Owner/Consultant. The

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contractor hereby undertakes that work shall be ready for tests on completion not later than the date of completion.



- e. The contractor shall carryout all such tests as are specified in the Contract and/or required in accordance with good engineering practices or directed by Owner/Consultant for ensuring the quality and performance of the equipment and materials supplied and work done under the contract at his own cost.
- f. Contractor shall arrange for all handling, safe storage and security of all the equipment/ material issued to him for erection.
- g. Contractor shall arrange all tools, tackles, cranes and other material handling equipment's, welding equipment and cables, welding rods, scaffoldings (metallic only), consumable stores, safety equipment & appliances and all other equipment/accessories required for execution of work including erection and testing. These shall not be removed from the site without the written permission of the Owner.
- h. Contractor shall bear all postage/courier, telephone/fax, telegraph and other communications etc. expenditure during his work at the site.
- i. Contractor shall provide necessary supervisory staff and inspectors, erection engineers, skilled and unskilled labour, clerical staff, watch and ward staff, store keepers, drivers, etc. required in connection with the execution of the contract.
- j. Contractor shall provide all amenities, including but not limited to, accommodation/ conveyance to his staff and labour employed by him for the work at the site.

### ARTICLE-3: CONTRACT PRICE

- a. The Owner shall pay to the Contractor sum not exceeding to what is set out in the Letter of Intent /Work Order/Contract, reduced or increased by such sums (if any) as under the Contract are to be taken into account in ascertaining the Contract Price. The Contractor shall take written permission from Owner for carrying out works beyond stipulated contract value as and when such situation arises.
- b. The contractor shall credit the Owner with the sums which may become allowable or due under the Contract at the times and in the manner hereinafter specified.
- c. The prices shall be fixed for the duration of the contract and shall not be subject to escalation of any description including extension of time, if any granted by owner on any ground, what-so-ever it may be.

### ARTICLE-4: OWNER'S REPRESENTATIVE/CONSUTLANT

- a. All instructions and orders to the Contractor shall, except as herein otherwise provided, be given by the Owner through his nominated representative(s).

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- b. All the work shall be carried out under the direction of and to the satisfaction of the Owner/Consultant.
- c. The contractor shall proceed with the work in accordance with decisions and orders given by Owner/Consultant in accordance with the contract provided that:
  - i. If the contractor being given any decision, instruction or order other than in writing and if the contractor without any undue delay require it to be confirmed in writing, such decision, instruction or order shall not be effective until written confirmation thereof has been received by the contractor, and
  - ii. If the contractor after receiving any decision, instruction from the Owner/Consultant in writing or written confirmation thereof, intimates within fourteen days any dispute or questions the decision, instruction, or order by written notice to the Owner/Consultant giving his reasons for so doing, either party shall be at liberty to refer the matter to arbitration pursuant to Article-35 hereof, but such an intimation shall not relieve the contractor of his obligations to proceed with the work in accordance with the decision, instruction, or order in respect of which the intimation has been given.

#### **ARTICLE-5: CONTRACTOR TO INFORM HIMSELF FULLY**



The contractor shall be deemed to have carefully examined the specifications, schedules and drawings and also to have satisfied himself as to the nature and character of the work to be executed and, the Site conditions and other relevant matter in detail, before entering in to the contract. No claim whatsoever, if subsequently made in this regard, shall be entertained by the owner/consultant.

#### **ARTICLE-6: FINANCIAL GUARANTEE FOR SECURITY AND PERFORMANCE**

- A) The Contractor shall provide the Owner with the financial guarantee for the due and faithful performance of the contract for a sum equal to 10% (ten percent) of the contract value or the sum as defined in the body of the contract. Such guarantee shall be in the form of a Bank Guarantee from any Scheduled/ Commercial Bank recognised by Reserve Bank of India on the format attached herewith. Contractor shall inform the Owner/Consultant name and address of its banker along with Fax Number and E-Mail.

The Bank Guarantee shall be furnished within 15 days of placement of letter of intent and shall be valid until expiry of the maintenance period referred to in Article - 31.

- B) For increase of 20% in contract value, performance guarantee originally submitted shall remain valid. For increase beyond 20% additional guarantee to cover total increase from original contract value shall be submitted by the contractor.

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- C) The validity of performance guarantee shall be suitably extended in accordance with final date of completion of work plus 12 months maintenance period from the date of certified final completion of work plus 6 months (claim period).
- D) The proceeds of performance security shall be appropriated by the Owner/Consultant as compensation for any loss resulting from the Supplier's/Contractor's failure to complete its obligations under the Purchase Order without prejudice to any of the rights or remedies the Owner/Consultant may be entitled to as per terms and conditions of Purchase Order/Contract.

## ARTICLE-7: DRAWING AND DESIGNS



- a. The drawings and detailed technical specification shall be supplied in stages, after the award of work, keeping in view the site requirements.
- b. All drawings, designs, specifications and other documents furnished by the Owner/Consultant to the contractor, including all features whether patented or patentable or not, or whether separately or collectively shown, are the exclusive property of the Owner and shall be confidential and shall not be lent or reproduced in whole or in part nor used for any purposes other than in execution of the Contract without the previous written consent of the Owner/Consultant. Such drawings, designs and other documents are loaned by the Owner/Consultant to the Contractor and subject to return on demand.
- c. Where with the written permission of the Owner/Consultant the Contractor reproduces any drawing or design in whole or part, the contractor shall stamp it as follows:

This drawing/design, including all patented and patentable features separately or collectively shown is reproduced from a drawing/design which has been furnished by the (Owner/Consultant) and is not to be reproduced or used for any purpose other than those specifically permitted in writing by the (Owner/Consultant).

- d. Any reproduction of any such drawings, designs, specification or any other document shall be equally subject to return on demand or on completion of work as the clause (b) above, whichever is earlier.

## ARTICLE-8: PATENT AND OTHER RIGHTS

- a. The contractor shall fully indemnify the Owner against any action, claim or demand, costs or expenses, arising from or incurred by reason or any infringement or alleged infringement of any letters, patent, registered design, trade mark of name copy right or other protected right in respect of the work or method of using, fixing, or working the Equipment's authorised or recommended by the Contractor.
- b. The Owner warrant on their part that any design or instructions furnished or given by him for performance of work hereunder to the contractor shall not be such as will cause the

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contractor to infringe any letters patent, registered design, trademarks or copy right in the performance of the contract.

In the event of any action being brought or any claim or demand being made against owner on account of any such matter as aforesaid, the Contractor shall immediately be notified and he shall at his own expenses fully cooperate with Owner and shall do all that the Owner may reasonably require in defence in such action or to resist such claim or demand.

## ARTICLE-9: ROYALTIES



All payments and royalties payable in respect of any letters, patent and other rights whether payable in one lump-sum or by installments or otherwise are included in the Contract Price. Owner/consultant shall not be liable to pay such dues or sums.

## ARTICLE-10: ASSIGNMENT AND SUBLETTING

- a. The Contractor shall not without the consent in writing of the Owner/Consultant assign or transfer the contract or benefits or obligations or any part thereof to or enter into any sub-contract with any other person. Any such consent shall not relieve the Contractor from his obligations under the Contract.
- b. If any sub-contractor engaged upon the work with due permission from Owner/Consultant at the site executes any work which in the opinion of the Owner/Consultant is not of the requisite standard (the opinion of the Owner/ Consultant being final in this regard), the Owner/Consultant may by written notice to the Contractor require the Contractor to terminate such sub-contract, and contractor shall upon the receipt of such instructions terminate such sub-contract at the risks and cost of the Contractor, and shall keep Owner/Consultant indemnified against all the consequences.

## ARTICLE-11: GUARANTEE

- a. All Equipment supplied and work done by the Contractor pursuant to the Contract shall be guaranteed by the Contractor to be in accordance with the specifications contained in the contract, new and of the best quality and workmanship and to be of expert design conforming to generally accepted Indian/International standard to be of sufficient size and capacity and of proper materials so as to fulfill in all respects requirements specified in regard thereto.
- b. If at any time during the execution of the work or during the maintenance period specified in Article-31 hereof, the Owner/Consultant shall decide that any equipment supplied or work done by the contractor fails in any respect to conform to the guarantees given by the contractor in paragraph (a) hereof, the Owner/Consultant may as soon as reasonably practicable, give the contractor a notice in writing of the respects in which the equipment supplied or the work fails to conform to the such guarantee and the contractor shall thereupon, at his own expense, replace any equipment and carry out any further work that

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may be necessary to ensure that the equipment supplied and the work done conforms to such guarantee.



- c. If the contractor fails within a reasonable time not exceeding 15 days from the date of notice in this behalf from the Owner/Consultant to take such steps as may be necessary to fulfill his obligations under paragraph (b) hereof then the Owner/Consultant may, at the expense of the contractor shall conform to such guarantee.
- d. If any replacement of equipment or the work done by the contractor pursuant to this article shall be of such a nature as to effect the efficiency or performance of the whole or any portion thereof, Owner/Consultant may give notice to the contractor in writing requiring that a test or tests shall be carried out at the expense of the contractor and in accordance with the technical standards prescribed by Bureau of Indian Standards.

## ARTICLE-12: VARIATIONS AND OMISSIONS

- a. The contractor shall not; alter any of the work except as directed in writing by the Owner/Consultant but the Owner/Consultant shall have the full power from time to time during the execution of the contract by notice in writing to direct the contractor to alter, amend, omit, add to, or otherwise carry out any of the work, and the contractor shall carry out such variations, and be bound by the contract so far as applicable as though the said variations were stated in the contract. In any case, in which, the contractor has received any such direction from the Owner/Consultant which either then, or in the opinion of the contractor, will later involve an increase or decrease in the contract price, the contractor shall within seven (7) days of such direction, advise the Owner/Consultant in writing to that effect. The Owner/ Consultant shall thereupon approve in writing such variations which are to be given effect together with the amount of increase or decrease in the contract price on that account. The contractor shall then give effect to such variations. The difference in cost, if any, occasioned by any such variations, shall be added to or deducted from the contract price and paid in the same way as the contract price.
- b. If in the opinion of the contractor any such variation is likely to prevent or prejudice him from fulfilling any of obligations under the contract, he shall notify the Owner/ Consultant thereof, in writing and the Owner in consultation with consultant shall decide forth with whether or not such variations; shall be carried out. If the Owner/ Consultant amends his instructions in writing, the said obligations shall be modified to such an extent as may be agreed in writing between the owner and the contractor, provided however, that the contractor may not call upon the owner to agree to any such variations as would in any way, have the effect of modifying the obligations of the contractor under the provisions of Article-8 and 11 hereof.

If any variation in the scope of work necessitates any extension in the time for completion, the provisions of Article-25 here of shall apply.



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### ARTICLE-13: EXECUTION OF WORK IN INCLEMENT WEATHER



The contractor shall, during inclement, weather, carryout the work in accordance with the contract and the contractor shall not be entitled to any additional payment over and above the contract price by reason of his being unable to carry out the work owing to inclement weather.

It is presumed that the Contractor has familiarized himself with the weather conditions prevailing in the area therefore in such weather parameters if it appears to the Engineer –in –charge (EIC) that certain weather condition may damage the work or specified quality of the work can be achieved without stoppage of the work, the EIC in such conditions may require the Contractor to stop the work till such time as he thinks fit and appropriate. It is understood by the contractor that no compensation will be admissible on this count. However in exceptional circumstances at the recommendation of the EIC, Consultant/owner may grant reasonable extension of Time.

### ARTICLE-14: CONTRACTOR'S DEFAULT

If the contractor shall fail or neglect to execute the work with all diligence and expedition, or shall refuse or neglect to comply with any reasonable orders given to him in writing by the Owner /Consultant in connection with the work, or shall contravene the provisions of the contract, the Owner/Consultant may give notice in writing to the contractor specifying the time within which to make good such failures, neglect or contravention. Should the Contractor fail to comply with the notice within the time specified in the notice, then the Owner either on its own or in consultation with the consultant shall be at liberty forthwith to make good such failure, neglect or contravention and to execute such part of the work as the contractor may have failed or neglected to do, all without prejudice to other rights the owner may have under contract, to take the work wholly or in part out to the contractor's hands and enter into contract with any other person, firm or company to complete the work or any part thereof, and in such events the owner shall have free use of all contractor's hands and enter into contract with any other person, firm or company to complete the work or any part thereof, and in such events the owner shall have free use of all contractor's equipment and other things that may be at any time on the site in connection with the work, without being responsible to the contractor, for fair wear and tear thereof, and to the exclusion of any right of the contractor over the same, and the owner shall be entitled to retain any balance amount which may be otherwise due under the contract to the contractor or such part thereof as may be necessary to the payment of the cost of executing the said part of the work or of completing the work as the case may be and of meeting claims of third parties against the owner and arising from or in consequence of the contractor's failure, neglect, refusal or contravention as aforesaid, if the cost of completing the work or executing a part thereof or of meeting claims of third parties as aforesaid shall exceed the balance due to the contractor under this contract the owner shall have right to recover the balance from amounts payable to the contractor under any other contract or from his performance guarantee. The contractor shall not resort to unilateral stoppage of



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work due to any reason whatsoever. If he does so, it shall be treated as default and breach of contract.



## ARTICLE-15: BANKRUPTCY AND WINDING UP

If the contractor shall become bankrupt or insolvent or have a liquidator/receiver appointed over his company, or 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 reconstruction, or carry on its business under a receiver for the benefit of its creditors or any of them, the owner shall be at liberty -

- a. to terminate the contract forthwith by notice in writing to the contractor or to The Receiver or Liquidator or any person in whom the contract may become vested, and to act in the manner provided in Article-14 hereof as referred to in such Article and the work had been wholly taken out of contractor's hands or
- b. to give such receiver, liquidator, or other person the option of carrying out the contract subject to his providing guarantee for the due and faithful performance of the contract to the extent of work desired by the owner and upto the amount to be agreed within; the over all contract value.

## ARTICLE-16: INSPECTION AND TESTING

- a. The representatives of the Owner and the consultant shall be entitled at all reasonable time to inspect the work or any part thereof. The contractor shall provide all necessary assistance to the Owner/Consultant and shall make available all such tools to enable the owner/consultant may require carrying out such tests/inspection. The contractor shall uncover any part of the work or make openings for inspection as the Owner/Consultant direct and shall reinstate and make good such part to the reasonable satisfaction of the Owner/Consultant. The contractor shall ensure that his sub-contractors and vendors also provide such facilities for inspection and tests by the Owner/Consultants that have been mentioned in this clause.
- b. On receiving notice from the contractor that the work is ready for inspection, the Owner/Consultant shall without unreasonable delay, attend for the; purpose of inspecting the said work. The Owner/Consultant reserves the right to waive participation in any test requirements, which however shall not absolve the contractor of his liabilities herein. When the tests have been completed satisfactorily, the contractor shall furnish the test certificates for owner/consultant's signatures within two days of completion of such tests.
- c. The owner/consultant shall have the right, according to his judgment and specifications to for-bid the use and the dispatch of all such materials which, during tests and inspections, fail to comply with requirements.

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- d. The contractor shall not dispatch any equipment without the completion of final inspection by the owner/consultant. The waiver from participation in the final inspection shall be made by the owner only.
- e. Whenever it is necessary to cover up any work in respect of which previous inspection is desired and the contractor has been notified accordingly by the owner/consultant in writing, the contractor shall give notice in writing to the owner/consultant before the work is covered up. No such work shall be covered up or built upon unless it has been inspected and approved by the owner/Consultant or unless the owner's consent in writing to this was being done without his previous inspection and approval has been obtained in advance.
- f. Inspection/waiver by Owner/Consultant shall not, however, relieve the contractor of its obligations including guarantees and warranty obligations hereunder.

#### **ARTICLE-17: ORIGIN OF MATERIALS**

- a. The Owner shall have the right, at any time, to call upon the contractor for evidence of origin of raw materials and parts of equipment.
- b. All equipment supplied or used shall be new and of first class and quality of the grade specified.

#### **ARTICLE-18: MILL CERTIFICATES**



All mill certificates covering physical and analytical tests are to be produced as called for by the owner/consultant at no extra cost.

#### **ARTICLE-19: FLAME PROOF ELECTRICAL EQUIPMENT**

Where the equipment include flame-proof electrical equipment to a recognized Indian Standard or code of practice, then the contractor shall forward copies of the relevant certificates to the owner at no extra cost.

#### **ARTICLE-20: TEST CERTIFICATES**

The contractor will, if so required by the owner/consultant supply specified numbers of test certificates and/or materials analysis certificates. Reports from recognized agencies of repute (The agencies shall be approved by consultant/owner). In case of any doubt the contractor shall repeat the test at his own cost.



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## ARTICLE-21: ACCESS TO AND POSSESSION OF THE SITE

- a. Subject to paragraph (c) hereof, access to and possession of the site shall be afforded to contractor by the owner/consultant in reasonable time.
- b. In the execution of the work, no persons other than contractor's employees or labours shall be allowed on the site, except by the written permission of the owner, but facilities to inspect the work at all times shall be afforded to the owner/consultant and his representatives and other authorized officials or representatives of the owner/consultant.
- c. The access to and possession of the site referred to in paragraph (a) hereof shall not be exclusive to the contractor but only such as shall enable him to execute the work. The contractor shall afford to the owner/consultant, and to other contractors authorized by owner/consultant every reasonable facility for the execution of work concurrently with his own.
- d. Unless otherwise provided in the contract, the owner shall give contractor facilities as far as possible for carrying out the work on the site continuously during the normal working hours as fixed by the owner, the owner may, after consulting with the consultant direct that the work shall be done at other times if it shall be practicable in the circumstances for the work to be so done.
- e. Construction Water shall be provided at a single point to the contractor at free of cost.
- f. Construction Power shall be provided on chargeable basis at a single point to the contractor and unit rate for the power shall be Rs.10 per unit.

## ARTICLE-22: CONTRACTOR'S EQUIPMENT

- a. The contractor shall, at his own risk and expenses, provide all equipment necessary to execute and complete the work, If any equipment is available with owner at the site, the contractor may, with the written consent of the owner, use the same on payment of necessary charges as fixed by the owner.
- b. All contractors' equipment shall be used solely for the purpose of the work at site and shall not be removed from site by the contractor, without the permission in writing of the Owner, and the contractor shall be liable for the loss or destruction thereof or damage thereto. If there shall be any due owing or accruing to owner, from the contractor any money in respect of this contract, the owner shall be at liberty, at the cost of the contractors, to sell and dispose of any such (Contractors) equipment, as the owner shall think fit, and to apply the proceeds in or towards the satisfaction of such money as aforesaid.



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## ARTICLE-23: CONTRACTOR'S REPRESENTATIVES AND WORKMEN AT SITE

- a. The contractor shall employ one or more competent and authorized representative whose name or names with specimen signature shall have previously been communicated in writing to the owner/consultant by the contractor, to superintend and carrying out the work. The said representative shall be present at site during working hours and any orders or instructions which the owner/consultant may give to the said representative shall be deemed to have been received by the contractor.
- b. The consultant and/or owner shall be at liberty to serve by notice in writing to the contractor to object to any representative or person employed for execution or otherwise for the work, who, in the opinion of the owner/consultant, misconduct himself or is incompetent or negligent. On receipt of such notice, the contractor shall remove such person from the site forthwith.
- c. The consultant and owner shall be given the opportunity to approve the employment of casual labour hired for the work.
- d. The contractor and his employees shall abide by the site working rules.
- e. The contractor shall immediately notify the owner/consultant in writing of any labour dispute affecting the work. Such notice shall describe the nature of labour dispute and the actions being taken by the contractor to settle the disputes.
- f. The contractor shall keep the owner/Consultant indemnified from and against all personal and third party claims whatsoever (inclusive of all costs incurred between attorney and client) arising out of any act, omission or intermission on part of contractor, any sub contractor or agent, sub-agent, consultant or employee of the contractor or any sub-contractor whether committed, omitted or arising within or without the scope of the contract, sub-contract agency or employment, as the case may be.

## ARTICLE-24: LIABILITY FOR ACCIDENTS, DAMAGE AND INSURANCE



- a. The contractor shall, during the execution of the work, properly cover up and protect any part of the work liable to injury by exposure to the weather and; shall take every reasonable precaution against accident or injury to the work from any cause.
- b. All contractors' equipment shall be at the sole risk of the contractor.
- c. The contractor will insure all his personnel employed for the execution of the work against any personal injury that may be sustained by them as a result of the execution of the work and present satisfactory evidence to the owner/consultant that such insurance is in force.
- d. The contractor shall be responsible for workman's compensation insurance and all other statutory requirements in regard to the personnel in the contractor's employment.

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- e. Owner will be taking storage / erection policy. The contractor at his own cost shall arrange, secure and maintain all insurance that may be pertinent to the works and obligatory in terms of law to protect his interest and interest of the owner against all points including accident insurance in the joint names of contractor and the owner. Contractors All Risk Insurance Policy covering a) fire & lightening / lighting, b) accident damage during construction for example due to dropping or falling or defective workmanship and materials, lack of skill, negligence, malicious act or human error, c) water damage, flood, storm, tempest inundation, earthquake, d) Collapse, collisions, impact e) theft and burglary, malicious damage) subsidence, land slide, rock slide. The period of insurance cover shall be from commencement of work upto completion and handing over of the work to the owners. The sum insured should represent the completed value of work done including cost of all materials etc.

## ARTICLE-25: TIME FOR COMPLETION

- a. The terms and conditions agreed upon with respect to this agreement shall be subject to 'Force Majeure'. 'Force Majeure' shall be deemed to be only cause beyond the reasonable control of the contractor or the owner, as the case may be, which prevents or impedes the due performance of the agreement and which by the due diligence the affected party is unable to avoid or overcome through its individual concerted effort. For the purpose of this Article, Force Majeure shall mean and be limited to the following:
- i) Any war or hostilities;
  - ii) Any riots or civil commotion;
  - iii) Any earthquake, flood, tempest, lightening or other natural physical disaster;
  - iv) Any accident fire or explosion not caused by the negligence of the contractor;
  - v) Any legal strike / lock-out or other industrial disturbance (only those exceeding 10 continuous days in duration) affecting the performance of the contractual obligation.
  - vi) Any law or order of any Government Department or other authority which delays or impedes the contractor in the execution of the work.
- b. If either party is prevented or inordinately delayed in the performance of any of its obligations under the agreement by Force Majeure and if affected party gives written notice to the other party specifying the matter constituting Force Majeure with necessary evidence that a contractual obligation is thereby prevented or delayed, and the further period which it is estimated that such prevention or delay will continue, then the effected party shall be excused the performance or delayed performance as the case may be of such obligations as from the date of such notice for so long as may be justified.
- c. Any occurrences of Force Majeure shall be informed in writing within seven days of occurrence otherwise it shall not be deemed as force majeure. Such Force Majeure shall be effective from the date of receipt of such notice from either party. Continuance of Force Majeure shall be informed every week.
- d. If by virtue of the proceeding paragraphs either party shall be excused the performance or punctual performance of any obligation for a continuous period of six months the parties

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shall consult together with a view to agreeing what action should in the circumstances be taken and what amendments to the terms of the contract ought to be made.

- e. For variation in the scope of work resulting into additional 25% in estimated contract value, no extension in completion time shall be admissible. Notwithstanding any other provision in the contract, the Owner/Consultant may at any time of its own initiative or at the request of the contractor, if satisfied of the existence of any ground (s) may extend the completion period by duration as deemed reasonable. The decision of the Owner/Consultant in this regard shall be final and binding upon the contractor.
- f. Within (7) seven days from the date of receipt of LOI/work Order the contractor shall submit to the owner/consultant for approval in respect of each job site or groups of work or a detailed Progress schedule in graphical or other suitable form giving dates of starting and finishing of various operations and works related to the work providing sufficient margin to cover for contingencies and for final testing and consequential repair etc., if any required. The owner/consultant and contractor shall thereafter within seven days settle the progress schedule and the progress schedule so settled shall be the approved progress schedule and shall form part of the contract with attendant obligations upon contractor to commence the various works/operations involved on or before the date(s) mentioned in; the progress schedule and to conclude the said work(s)/ operation(s) on or before date mentioned in this behalf in the approved progress schedule, and default by contractor to commence or complete within prescribed date(s) any work or operation shall be deemed to be a breach of contract by the contractor to which the provisions of clause 30 relating to termination of contract shall be applicable, but without prejudice to any other rights or remedies that owner may have in this behalf.
- g. **PREDETERMINED AGREED DAMAGES FOR DELAY**

If for reasons not attributable to the owner or due to conditions not constituting force majeure as defined in this contract the work is not completed in accordance with the provisions hereof within and in accordance with the Time Schedule hereto/the TIME FOR COMPLETION, it is clearly understood and agreed that the Owner shall be entitled to and the contractor shall pay to the Owner the following as mutually agreed damages for delay (which are a genuine pre-estimate made by the parties of the loss which the Owner would have suffered on account of such delay in completion of the work) after taking into consideration all circumstances and not as penalty and without the owner being required to establish and prove the actual loss/damage suffered by the owner on account of such delay :

- The pre estimated mutually agreed damages for delay pursuant hereto shall be payable at the rate of 1/2% (half percent) of total contract value per week or part thereof's delay in completion of the work subject to a maximum of 5% of final Contract value . It is expressly agreed by and between the owner and the contractor that no prior notice will be required to be given by the owner to the contractor, before effecting recovery of compensation amount from their bills/other due if any.
- Notwithstanding anything to the contrary contained in this Contract and without prejudice to the rights of the Owner under this CONTRACT and the entitlement to the



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said pre-estimated mutually agreed compensation for delay and in addition and not in derogation or substitution thereof the owner shall be entitled to terminate this contract in whole or in part without being liable to the contractor in any manner whatsoever or to have the uncompleted portion of the work to be executed/performed pursuant hereto by the contractor completed/ executed/performed at the risk and cost of the contractor in the event of, and despite 30 days notice in writing the contractor failing to complete/execute/perform all or any part of the work to be completed / executed / performed pursuant hereto by the contractor within and in accordance with the Time Schedule hereto/the TIME FOR COMPLETION as extended in accordance with the provisions hereof or by the owner.



## ARTICLE-26: COMPLETION TEST

Completion test if applicable shall be carried out as per technical specification in Contract / BIS.

## ARTICLE-27: TAKING OVER

- a. taking over shall be done at one stage after completion of the entire job except where desired by owner otherwise. Only one completion certificate shall be issued after completion of all jobs.
- b. Within 15 days of carrying out final inspection of the works at any job site covered by the contract, the contractor shall clear the job site covered by the contract, the contractor shall clear the job site of all scaffolding, wiring, pipes, surplus materials, contractor's labour's equipment and machinery and shall, demolish, dismantle and remove all contractor's site offices and quarters and other temporary works, structures and constructions and other items and things whatsoever brought upon or erected at the job site or any land allotted to the contractor by the owner and not incorporated in the permanent works and shall remove all rubbish from the job site and the land allotted to contractor and shall clear level and dress the job site and said land to the satisfaction of the owner/consultant and shall put the owner in undisputed custody and possession of the job site and all land allotted by the owner to the contractor, and unless the contractor shall have fulfilled the provisions of this clause the works shall not be deemed to have been completed.
- c. The contractor shall submit following documents as desired by owner before completion certificate is issued:
  - i) The Technical Documents according to which the work was carried out;
  - ii) Complete set of working drawings showing therein corrections and modifications (if any) made during the course of execution of the works, signed by the owner;
  - iii) Certificates of final levels as set for various works, signed by the owner;
  - iv) Final Test Certificate;
  - v) Certificates of owner; of satisfactory fulfillment of the provisions as above hereof;
  - vi) List of owner supplied surplus materials returned to owner's stores, signed by the owner;



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- vii) Materials-at-site accounting for owner supplied materials, signed by the owner;
  - viii) List of the scrap materials returned to store, signed by the owner.
  - ix) Discharge certificate in respect of owner supplied equipment and machinery signed by the owner.
  - x) Any other certificate/document which owner/consultant may find necessary.
- d. The issue of completion certificate shall be without prejudice to the owner's rights and contractor's liabilities under the contract, including the contractors liability for the defect liability period nor shall the issue of a completion certificate in respect of the works or work at the job site be construed as a waiver of any right or claim of the owner against the contractor in respect of work or the works at the job site in respect of which the completion certificate has been issued.
- e. Upto and until issue of the completion certificate as provided for herein above in respect of the works or the works at job site the relative work(s) shall be and remain at the risks of the contractor in all respects, including (but not limited to) accident, fire, lightning, earthquake, flood, store, tempest, riot, civil commotion and /or war.

## **ARTICLE-28: SUSPENSION OF WORK ON INSTRUCTION OF OWNER/ CONSULTANTS**

- a. The Contractor shall on the written order of the owner/consultant, delay or suspend the progress of the work for such time or times and to such extent and in such manner as owner/consultant may specify.
- b. All reasonable expenses incurred by the contractor by reason of such delay or suspension by the owner/consultant otherwise than in consequence of some default on the part of the contractor shall be added to the contract price, provided that no claim shall be made under this article unless the contractor has within 7 days, after the event giving rise to the claim, give notice in writing to the owner/consultant of his intention to make such claim. However, no compensation for suspension of work by the consultant or the owner shall be payable to the contractor if the period of suspension is 30 days or less.
- c. If in the opinion of the contractor the suspension shall necessitate any extension in the time of completion, the provision of article no. 25 hereof and related article in respect of extension of time shall apply.

## **ARTICLE-29: CANCELLATION OF CONTRACT**

- a. The owner shall be entitled at any time at its discretion to cancel the contract if, in the opinion of the owner, the cessation of the work becomes necessary owing to any cause whatsoever, and a notice in writing from the owner to the contractor of such cancellation and the reason(s) therefore shall be conclusive proof of such cancellation and the reasons thereof.
- b. Upon cancellation of the contract, the owner shall take over from the contractor the approved materials lying at job site on the date of the cancellation at the rate(s) for such material(s) as specified in relative item(s) of the schedule of rates, and if the rate(s) for any



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material(s) be not (in the opinion of the owner which shall be final) specified in the schedule of rates at market rate(s) for such material(s) current on the date of the cancellation. The decision of the owner/consultant as to the approved materials lying at site on the date of cancellation and the quantities and market rate(s) thereof shall be final and binding upon the contractor.

- c. The contractor shall not be entitled to any compensation in addition to the payment for the work actually performed by rates as a result of such cancellation notwithstanding that such cancellation may have resulted in the performance of quantities of work below the quantities indicated in the form of schedule of rates and/or of a value below the total contract value indicated in the work order.

### ARTICLE-30: TERMINATION

- 1
  - (a) The Owner may, for breach of any provision of the contract by the contractor at any time by notice in writing to the contractor, terminate the contract.
  - (b) In the event of termination pursuant to paragraph(s) of this Article-
    - i) The contractor shall carry out instructions of the owner in connection with such termination including the cancellation of orders and the termination of contracts which the contractor may have placed with others.
    - ii) The owner shall pay the contractor for all materials used and work executed pursuant to the contract, but unpaid at the date of such termination together with any costs necessarily incurred by the contractor in connection with the work as a result of such termination provided that owner shall not be liable for any indirect loss, any business loss or damage or loss of profit suffered by the contractor as a result of such termination.
    - iii) For the purpose of determining the amount due to the contractor joint measurements shall be taken for the work completed and material supplied as on the date of termination. Bill prepared by the contractor on the basis thereof shall be deemed to be the final bill.
  - (c) The contractor shall upon receiving notice from the owner in accordance with paragraph (a) of this Article, notify the owner within a reasonable time of the sums for materials used and work executed as mentioned in paragraph (b) (ii) of this Article. These sums and all terms and conditions of termination pursuant to this Article may be agreed in writing between the owner and the contractor.
2. In the event of any breach of the provisions of the agreement or default in the performance of the obligations by the contractor not being remedied by him within 30 days of receipt of notice in that behalf from the owner, the owner shall be entitled to terminate the contract forthwith without prejudice to its other rights and remedies hereunder, by a communication in writing to the contractor and as such on termination the contractor shall be liable to pay to the owner for all loss and damages and sums that may be suffered and incurred by the

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owner including the additional costs incurred in rectifying default and/or completing unfinished work notwithstanding anything contrary contained in this contract.

3. Upon termination of the contract pursuant to this Article, obligations of the parties hereto shall cease except as to the liabilities of either party to the other for obligations accrued prior to the date of such termination.
4. Within 15 days of completion of measurements, the contractor shall clear the job site of all scaffolding, wiring surplus materials, labours, construction tools, equipment & machinery and shall dismantle, demolish and remove site office, labours quarters etc. or any other thing instructed by owner. Should the contractor fail to comply with the instructions of owner in this regard, owner shall be entitled to take undisputed possession of site and take action for site clearance at the risk and cost of contractor.

## ARTICLE-31: MAINTENANCE PERIOD

### FOR ALL WORKS

- i) The contractor guarantees that the work shall perform in accordance with the contract. He shall protect the work until the completion of same as certified in writing by the owner/consultant.
- ii) He shall also maintain in good and substantial repair, fair wear and tear expected, the whole of the works until the expiration of the maintenance period of 12 months after the certified completion of the works as whole and he shall also be liable for the soundness and stability thereof, and be responsible for injury to any person or property owing to any settlement, failure, defect, damage or fault due to any cause whatsoever other than earthquake or fire during this period. This liability and responsibility shall not be affected or removed by any certificate of satisfaction or for payment of money which the owner/consultant may at any time give or have given. Moreover, the contractor shall at his own cost, restore such settlement, failure, defect, damage or fault without charge to the owner or the owner may restore such settlement; failure, defect or damage at the contractor's risk and cost. In any case, the contractor shall be liable for and shall pay and make good to the owner or other person or parties being entitled thereto, all losses, costs and expenses they or any of them may put to or be liable to be by reason or in consequence of the settlement, failure, damage or defect and the owner may deduct the amount of losses, cost or expenses from any sum due or to become due to the contractor, or may recover the same from his performance guarantee.
- iii) The defects or other faults which may appear within the said maintenance period and which in the opinion of the owner/consultant who shall be the sole deciding authority in this respect have arisen from material or workmanship not in accordance with the contract, shall be rectified by the contractor at his own cost to the satisfaction of the owner/consultant within the period mentioned in the notice to be issued by the owner/consultant specifying the defects and directing the rectification thereof. Failing this rectification the owner will be at liberty to rectify the said defects by and through any other agency at their sole discretion entirely at the risk and cost of the contractor. In the event of

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such rectification being carried out by the owner on default of the contractor Owner shall deduct from the contractor's dues such sum of money as may be certified by the owner/consultant for the rectification for the said defects. The certificate of the owner/consultant in this respect as aforesaid shall be final, binding and conclusive to the contractors, Provided always that the liability of the contractor under this condition shall not extend beyond the maintenance period as aforesaid except as regards the defects and faults which the owner/consultant may have previously given notice to the contractor to rectify.

## ARTICLE-32: PAYMENT DUE FROM THE CONTRACTOR



All costs, damages or expenses for which the contractor is liable under the contract may be deducted from any money due or becoming due to the contractor on any account whatsoever or may be recovered by action at law or arbitration.

## ARTICLE-33: PAYMENTS

Payment Terms shall be applicable as per Annexure-1.10 of Part-I, Commercial Part.

## ARTICLE-34: OBSERVANCE AND COMPLIANCE OF STATUTORY RULES/ LAWS

- a. The rights and obligations of owner and contractor and provisions of the agreement shall be governed by the Indian Laws.
- b. The contractor will be fully responsible for all matters arising out of the performance of the contract and shall comply at his own expenses with all the laws/ enactment's/ orders/ regulations/ statutory obligations, whatsoever, of the Government of India/State Govt./any Statutory or non-statutory authority. The contractor hereby agrees to indemnify and keep harmless the owner/consultant against all liabilities in this respect. The contractor shall be fully and exclusively responsible for the work, conduct, supervision and control of all their own personnel and personnel employed by the sub-contractor engaged by them and owner/consultant shall in no way be responsible for supervision, control etc. of these personnel. Since the contractor shall have full and exclusive supervision and control over the contract awarded to him, and the people engaged for this purpose, the contractor or his sub-contractor, as the case may be, shall be the principal employer under the contract labour (Regulation & Abolition) Act. 1970 and the contractor shall register himself as such; and the owner/consultant shall have no responsibility and liability on this account.
- c. The contractor shall observe all safety rules so that no harm or damage is done to the owner's employees or property. The owner/consultant shall have their right to object to any unsafe practices followed by the contractor or their subcontractors. If on account of the contractor or sub-contractor, owner's property or personnel are likely to suffer any damage in such cases any directions, issued by owner/consultant shall be complied with by the contractor and their sub - contractors.



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- d. The contractor shall at all times be responsible for work under the supervision and control of all its personnel in connection with the work awarded to him under this contract, whether the personnel are employed by the contractor or by any sub-contractor engaged by him.
- e. If, in the opinion of owner, any employee or employees of the contractor or his sub-contractor is found to be suffering from any disease, infections or otherwise or if any employee of the contractor or his sub-contractor is found to commit any misconduct including use of intoxicants or on account of any other reasonable cause, owner/consultant at its sole discretion may if require, the contractor to remove such employee(s) without questioning the decision of the owner/consultant in this respect and owner will be entitled to restrain such employee(s) from entering the premises.
- f. The contractor shall engage sufficient number of personnel with suitable qualification and experience so that the work and job assigned to the contractor are completed as per the specifications and within the time schedule.
- g. Contractor shall be responsible to keep himself informed of all the statutory laws, rules and Regulations of Central Government, Municipality etc. Contractor shall be responsible to secure compliance with all central and state laws as well as the rules, regulations, bye-laws and orders of the local authorities and statutory bodies as may be in force from time to time.
- h. Contractor shall be responsible to ensure that no loss or damage is caused to the adjoining property around the battery limits of the project. In case of any damage or loss to adjoining property which is attributable to them, the contractor shall make good the loss or damage at his own cost.
- i. **PAYMENT OF WAGES BY THE CONTRACTOR**

The wages of every labourer employed by the contractor under this contract shall be paid by him before the expiry of 7 days after the last day of the month in respect of which the wages are payable (i.e. wages of the previous month). The minimum wages rates. As notified from time to time by the Government as per the minimum wages act. 1948 and/or such other authority will have to be paid by the contractor to all his workers. The payments shall be disbursed against muster roll in the presence of the owner's representative and the same shall be affected during working hours in the factory premises. In case of any default/delay, the company will have the right to disburse the due payments to the contractor's workmen and the amount so disbursed together with any other expense incurred by the company to meet the contractor's pending bills/security deposit, if any besides, the owner shall also have the right to cancel the contract forthwith.

- j. **PROVIDENT FUND:**

The contractor will also strictly observe the provisions of employees provident fund act. The contractor shall have their own P.F. code. The contractor shall have to submit documentary evidence of his P.F. code otherwise bid not be considered. The contractor shall be required

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to submit documentary proof requiring remittance of P.F. of their workers during execution of work otherwise their bills not be cleared.

- k. Contractor shall be responsible to observe and comply with all statutory requirements including Contract Labour Act 1970, Minimum Wages Act 1948, ESI Act 1948, Employees Provident Fund Act 1952, Labour Laws and Regulation and subsequent amendment etc. in vogue of Central Government. Owner/Consultant shall be kept indemnified against any action brought against it for any violation/ non compliance of any Act, Rules and Regulations including contribution under ESI Act, 1948, EPF Act 1952, Wages Act 1948, Payment of Wages Act 1936, payment of Bonus Act 1965, Payment of Gratuity Act 1972 etc. and subsequent amendments etc. All expenses for compliance of above Acts and Regulations shall be borne by the contractor. Contractor shall submit documentary evidence against statutory dues like PF, ESI, Bonus etc. for the personnel deputed at site. Deputation of workers on duty and payment of their wages and other benefits (i.e. ESI contribution, PF contribution, overtime, bonus etc.) shall be strictly as per the notification of the Central Government from time to time and all other applicable statutory acts, rules and regulations in force and as amended from time to time.
- l. The contractor will provide access to their records so that Owner can check regular and just payment of the minimum wages and remittances of PF of the workmen to their account. In case any discrepancy is noticed or any complaint is received from the personnel deployed regarding non-payment of wages, PF, ESI and / or any other statutory dues, stern action will be taken against the contractor by the Owner.

## ARTICLE-35: RESOLUTION OF DISPUTES/ARBITRATION

- 35.1 The Owner/Consultant and the Supplier shall make every effort to resolve amicably by direct informal negotiations any disagreement or dispute arising between them under or in connection with the Purchase Order.
- 35.2 If, after thirty (30) days from the commencement of such informal negotiations, the Owner/Consultant and the Supplier have been unable to resolve amicably a Purchase Order dispute, either party may require that the dispute, be referred for resolution to the formal mechanisms as specified hereunder.



### 35.3 LEGAL CONSTRUCTION

Subject to provision of Article 35.4, the Work Order shall be, in all respects, construed and operated as an Indian contract and in accordance with Indian laws as in force for the time being and is subject to the exclusive jurisdiction of the court at Delhi only.

### 35.4 ARBITRATION

- a. Any dispute or difference whatsoever arising between the parties out of relating to the construction, meaning, scope, operation or effect of this contract or the validity or the breach thereof shall be settled by arbitration in accordance with the provisions of the



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Arbitration & Conciliation Act, 1996 and any amendments thereafter, and the award made in pursuance thereof shall be binding on the parties.

- b. The performance under this contract shall not stop for any reason whatsoever during the said dispute/proceedings, unless the contractor/supplier is specifically directed by Owner/Buyer to desist from working in this behalf.
- c. The Jurisdiction Venue of all arbitration shall be at Delhi only.
- d. The language of proceedings shall be English.
- e. The Law governing the substantive issues between the parties shall be the Laws of India.

#### **35.4.1 Arbitration [Applicable for Public Sector Unit]**

In case the Contractor is an Indian Public Sector Enterprise/ Govt. Deptt. (but not a State Govt. Undertaking or Joint Sector Undertaking which is not a subsidiary of Central Govt. Undertaking), the dispute arising between the Owner and the Contractor shall be referred for resolution to a Permanent Arbitration Machinery (PAM) of the Department of Public Enterprises, Govt. of India.

#### **ARTICLE- 36: RECOURSE**

The Owner shall have recourse to the contractor for any costs, claims, demands, proceedings, damages and expenses whatsoever arising out of or in connection with any failure of the contractor to perform any of his obligations under the terms of contract.

#### **ARTICLE- 37: ADVERTISEMENT**

No advertisement, publicity matter or other literature in relation to the contract or the work is to be published or utilized by the contractor except with prior written permission of the owner.



#### **ARTICLE-38: CONSTRUCTION OF CONTRACT**

The contract to the exclusion of all other agreement, statements or representation whether oral or written constitutes the full agreement between the parties hereto for the work to be performed hereunder.

#### **ARTICLE-39: INTERPRETATION OF CONTRACT**

- a. The several contract documents forming the contracts are to be read together as a whole and are to be taken as mutually explanatory.
- b. Should there be any doubt or ambiguity in the interpretation of the contract documents or error, omission or contradiction therein or in any of them, the contractor shall prior to



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commencing the relative work, apply in writing to the owner for his decision in resolution of the doubt, ambiguity or contradiction or correction of the error or omission, as the case may be. Should the contractor fail to apply to the owner for his decision, as aforesaid prior to commencing the relative work, the contractor shall perform said work as per interpretation of owner whose decision shall be final and binding on contractor.

#### **ARTICLE-40: SECRECY CLAUSE**

The technical information, drawings, specifications & other related documents forming part of the WORK ORDER are the property of OWNER and shall not be used by CONTRACTOR for any other purposes, except for the execution of the WORK ORDER. All rights including rights in the event of grant of a patent and registration of design are reserved. The technical information, drawings, specification records and other documents shall not be copied, transcribed, traced or reproduced in any other form or otherwise in whole or in part and/or duplicated, modified, divulged and/or disclosed to a third party nor misused in any other form whatsoever without OWNER's prior written consent except to the extent required for the execution of WORK ORDER. CONTRACTOR confirms that he/it has read and understood the secrecy and confidentiality obligations of the OWNER as provided in this W.O. and agrees to abide by the obligations (including indemnity obligation) cast upon the OWNER. Successful bidder will have to execute secrecy agreement with owner, format of which shall be mutually agreed.

#### **ARTICLE -41: INDEMNIFICATION**

Supplier does hereby agree to indemnify and hold harmless the Owner/Consultant from all claims, losses demand clauses of action or suit arising out of the services, labour, equipment and materials furnished by supplier.

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## PART-I : COMMERCIAL

### SECTION – 3.0



### SPECIAL CONDITIONS OF CONTRACT

0	04.04.2018	FOR TENDER	SK	KJ	RRK
REV.	DATE	PURPOSE	PREPARED	REVIEWED	APPROVED

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## SPECIAL CONDITIONS OF CONTRACT

### 1.0 RATES

- 1.1 The rates shall be deemed to allow for all minor extras and constructional details which are not specifically shown on drawings or given in the specifications but are essential in the opinion of the Owner/Consultant to the execution of work to conform to good workmanship and sound engineering practice. The Owner / Consultant reserve the right to make any minor changes during the execution without any extra payment.
- 1.2 The Owner / Consultant decision to classify any item 'minor changes', 'minor extras' and 'constructional details' shall be final conclusive and binding on the Contractor.
- 1.3 The Rates quoted shall include for payment of royalties for obtaining earth, morrum, sand, aggregates, stones, etc. Nothing extra shall be paid to the Contractor on this account.
- 1.4 Contractor shall be responsible for making all necessary approach roads to the sites of execution for taking his rigs, cranes & equipments. No extra claim in this regard shall be entertained.
- 1.5 Schedule of rates submitted by the Tenderer shall be the true copy of the schedule of rates enclosed with the tender documents
- 1.6 Without prejudice to stipulation in General Conditions of Contract, the Bidder should quote firm prices inclusive of all taxes & duties (except GST) and other levies on which no variation will be allowed. Further any statutory variations in respect of other taxes & duties, if any, shall be governed by Clause 39.0 of the SCC.

### 2.0 SPECIFICATIONS

- 2.1 If specification for an item of work is not covered by CPWD/BIS specifications or Technical Specifications, the same shall be decided by the Owner/Consultant and shall be binding on the Contractor.
- 2.2 The Owner/Consultant shall have the right to cause the Contractor to purchase and use such materials of particular make or from a particular source which may in his opinion be necessary for proper and reasonable compliance with the specifications and execution of work.
- 2.3 (a) As and when required by the Owner/Consultant, the Contractor shall provide all facilities at site or at manufacture's works or in approved laboratory for testing of materials and/or workmanship. All the expenditure in respect of this shall be borne by the Contractor. The Contractor shall, when required to do so by the Owner/Consultant, confirm that the materials have been tested in accordance with requirements of the specifications.  
  
(b) Neither the omission by the Owner/Consultant to test the materials nor the production of manufacturer(s) certificate, etc. shall affect the right of the Owner/Consultant to reject, after delivery, the materials found not in accordance with the specifications.

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### 3.0 GATE PASSES

All tools, plant and materials shall be brought by the Contractor to the works site through a covering note to be submitted in 3 copies. One copy of the covering note will be delivered to the security staff and one copy to the Owner/Consultant. The third copy shall be retained by the Contractor. The Contractor shall follow all rules and regulations for entry / exit of their men and materials in/from project site as framed by Owner/Consultant.

### 4.0 CONSTRUCTION SCHEDULE

If at any time, the Owner/Consultant is of opinion that the Contractor has fallen behind the approved construction schedule, the Owner/Consultant may, without any cost to Owner/Consultant, require the Contractor to take such steps as may be necessary to improve his progress, especially require him to employ overtime operations, increase the number of shifts, work on holidays and Sundays or increase the capacity of his construction plant and equipment and require him to submit evidence demonstrating the manner in which the Contractor proposes to comply with the construction schedule. Failure of the Contractor to comply with the above will be considered a failure to execute the work with due diligence.

### 5.0 CONTRACTOR TO BE LIABLE FOR ALL TAXES ETC.

The Prices / Rates quoted by the Contractor shall be inclusive of all labour, materials, tools and tackles necessary for executing the work and all other miscellaneous expenditure for/or incidental tools in connection with the execution of the contract including but not limited to all taxes & duties, custom duty, personnel and corporate tax etc. except GST. GST will be reimbursed at actual by the owner limited to the amount quoted by the bidder.

Further any statutory variations in respect of other taxes & duties, if any, shall be governed by Clause 39.0 of the SCC.



Payment of taxes etc., is the responsibility of the Contractor and shall not be payable by OWNER. The Contractor shall indemnify OWNER against levy of any taxes, duties, etc., in regard to the contract and in the event of OWNER being assessed for any of the said imports, the OWNER shall have the right to recover the total amount so assessed from the Contractor's dues and the Contractor shall also be responsible for all costs or expenses that may be incurred by OWNER in connection with any proceeding or Litigation in respect of the same.

### 6.0 ISSUE OF WORKING DRAWINGS

Approved working drawings marked "Good for execution/construction" shall be issued by Owner/Consultant to the Contractor progressively during the pendency of the contract. Sufficient quantum of workings drawings will be issued at the beginning. The Contractor on this account shall not be entitled to put forth any claim whatsoever.

### 7.0 COST OF TRANSPORT OF MATERIALS ISSUED BY OWNER

Cost of transport, loading, unloading etc. from Owner's stores to work site etc., will be on Contractor's account.

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## 8.0 ROLE OF OWNER/CONSULTANT

- 8.1 The Owner/Consultant shall have authority to stop the work, whenever such stoppage may become necessary to ensure the proper execution of the contract. He shall also have authority to inspect and reject all work and materials which do not conform to specifications, to direct the application of Contractor's forces to any portion of the work, as in his judgment is required, and to order the said force increased or diminished and to decide questions which arise in the execution of the work.
- 8.2 The Owner/Consultant reserve the right to suspend the work or part thereof at any time and no claim whatsoever on this account shall be entertained. In case of any clarification the Contractor may appeal to the Owner whose decision shall be final and binding thereupon.
- 8.3 The above inspection shall, however, not relieve the Contractor of his responsibilities in regard to defective materials or workmanship and the necessity for rectifying or replacing the same.
- 8.4 The judgment of Owner/Consultant for determining the category of an item not mentioned in the schedule shall be final.



## 9.0 SERVICE OF NOTICES OF CONTRACT

The Contractor shall furnish to the Owner/Consultant the name, designation and address of his authorized Agent for the purpose of service of notice(s) regarding all complaints, communications and references and shall be deemed to have been duly given to the Contractor if delivered to the Contractor or his authorized agent or left at or posted to the address so given and shall be deemed to have reached such address in the ordinary course of post or on the day on which they were so delivered or left. In the case of contract by partners, any change in the constitution of the firm shall be forthwith informed by the Contractor to the Owner/ Consultant.

## 10.0 CONTRACTOR'S GUARANTEE

The Contractor agrees to give the guarantee of his works in the following manner which shall remain valid till the validity of performance guarantee.

- i. All equipments / materials incorporated in the work shall be new and both workmanship and materials shall be of good quality.
- ii. Should, at a subsequent date, any inside honeycomb/hollowness be detected within a concrete member, he shall investigate other nearby sections for similar occurrence and shall rectify all these members by Pressure grouting at his own cost and as per direction of the Owner/ Consultant.
- iii. Should, any element of the structure be detected afterwards not exactly tallying with the working drawing, he shall re-do the element at his own cost and as per instruction of the Owner/Consultant.
- iv. Should, at a subsequent date, any equipment / materials or fittings or workmanship or any element of the structure be detected as of sub-standard quality he shall either

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remove the same and shall re-do at his own cost or shall accept an equitable deduction in the contract price should the Owner/ Consultant deemed it inexpedient to correct the work.

- v. All liquid retaining concrete structures shall be demonstrated about their efficiency or water tightness by filling the said structures with water and retaining it for 72 hours at his own cost. Should the result be found unsatisfactory he shall rectify the structures by pressure grouting at his own cost and as per direction of the Owner/Consultant.
- vi. Should, at a subsequent date, the basement wall/floor been noted seeping/leaking he shall rectify the same by pressure grouting at his own cost and as per direction of the Owner/Consultant.

## 11.0 CONTRACTOR FULLY RESPONSIBLE FOR LAYOUT OF WORK

The Contractor shall remain fully responsible to provide detailed layout of different structures according to the coordinates and reduced levels incorporated in the working drawings by taking reference from the Bench Marks of both the coordinates and the reduced levels which shall be given at a convenient place in the works site by Owner/ Consultant. The Contractor shall provide necessary protection to keep the Bench Marks Undisturbed throughout the pendency of the contract. The accuracy of detailed layout of any element of a structure shall remain exclusively with the Contractor. The Contractor shall have to maintain a number of after beams; Theodolite and levels instruments etc. in good working conditions at site for the above purpose throughout the pendency of the contract, and shall make them available to Owner/Consultant for their use.

## 12.0 NOTHING EXTRA FOR ADVERSE SUB-SOIL CONDITION



There may be variation in nature of sub-soil both horizontally and vertically. The Contractor shall have to take necessary precaution during excavation against any happening like collapsing of sides etc. Any slip or fall in excavation shall have to be cleared by the Contractor at his own cost. In case of excessive heaving, it shall have to be cut and refilled with lean concrete by the Contractor at his own cost. The Contractor shall have to adopt underwater work in case of occurrence of piping/quick conditions without any cost to Owner/Consultant.

## 13.0 R.C.C. ELEMENT SHALL BE INTEGRAL FINISHED

For all RCC elements, both underground and above ground, only new plywood and steel shuttering shall be used to produce the concrete surface reasonably plain and smooth which will be integrally finished surface. Any little unevenness shall be made good by rubbing with carborandum stones only. Unless otherwise mentioned, plastering will not be allowed to manipulate and make the surface plain and smooth.

If the surfaces after stripping off the shuttering are found to be contrary to the above conditions then the Contractor shall have to dismantle the member and re-do the same to attain the aforesaid surfaces at his own cost.



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#### 14.0 FABRICATION DRAWINGS FOR STRUCTURALS

a) The CONTRACTOR shall prepare and submit fabrication drawings in **triplicate** for preliminary **approval** of CONSULTANT. Fabrication drawings shall be based on design drawings issued by CONSULTANT. One copy of these preliminary drawings duly corrected and signed wherever necessary shall be returned to CONTRACTOR for incorporation of the corrections. After incorporating the corrections, the CONTRACTOR shall submit in 8 (eight) copies of the drawings for **final approval**. Each drawing shall be accompanied by:-

- Bill of materials giving all details including sizes, numbers and weights.
- Two copies of design calculations for the design of joints. All the joints shall be designed for full strength of members; unless otherwise specified.

Nothing extra shall be payable to Contractor for preparation of fabrication drawings, material lists design calculation etc.

Approval of fabrication drawings, however, will not absolve the CONTRACTOR of his responsibility for the safety and correctness of the fabrication details.

- In case the CONTRACTOR wants to get the fabrication drawings prepared from other agencies, Owner/Consultant's approval for appointing such agencies shall be obtained by CONTRACTOR before appointing the agency. For this, CONTRACTOR must submit the credentials of the agency along with the request for approval.
- The Contractor shall supply three (3) sets of as built drawings also, after completion of work but well before the submission of final bill.

#### 15.0 CONTRACTOR SHALL SUBMIT BAR BENDING SCHEDULE



The Contractor shall prepare bar bending schedule from the detailed RCC working drawings supplied by Owner/Consultant for execution of work and nothing shall be paid on this account. Four copies of such bar bending schedule shall be made available to the Owner/Consultant for his approval and effecting payment there under.

#### 16.0 CONTRACTOR'S RESPONSIBILITY FOR THE MANNER OF EXECUTION OF WORK

The Contractor shall be responsible for the manner and the method of executing the work. The work shall be subject to the approval of Owner/ Consultant from time to time for purposes of determination of the question whether the work is executed by the Contractor in accordance with the contract.

#### 17.0 NO WORK SHALL BE UNDERTAKEN WITHOUT APPROVED WORKING DRAWINGS

No work shall be undertaken at Site by the Contractor until detailed approved working drawings marked "Good for execution/construction" for the same is issued by Owner/ Consultant. Any work done without the aforesaid working drawing shall be at the Contractor's own risk and costs.

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## 18.0 CONTRACTOR SHALL KEEP FOUNDATION PITS/TRENCHES DRY

The Contractor, during the pendency of contract, shall keep in dry condition of pits, trenches, which are not yet back filled due to technical reasons, if not shall be Bail-out/Pump-out all accumulation at his own cost for the safety of the structure /element. During pumping, the Contractor shall have to ensure that 'Loss of Ground' does not occur. Other approved methods shall be undertaken by the Contractor to avoid 'Loss of Ground' if occurred, at his own cost.

## 19.0 NOTHING EXTRA FOR INTRICATE CONCRETE SHUTTERING OR REINFORCEMENT WORK

Nothing extra shall be paid for any intricate concrete, shuttering or reinforcement work for foundations of equipment and machinery and for other foundation/superstructure works or for any delay inherent in concreting in small and thin sections in concrete or RCC works etc.

## 20.0 NOTHING EXTRA FOR REBATING ETC.

Nothing extra shall be paid in concrete/RCC works for all rebating, chamfering, grooving, sinking, trotting weathering, molding, etc. to accord with the details shown on the working drawings.

## 21.0 CONSTRUCTION JOINTS

21.1 In case of execution of massive concrete elements both in foundation and in superstructure and in some other locations as would be permitted except where specified in the working drawings, the work shall be carried out in one single operation without any break in concreting within time limit that would be specified by the Owner / Consultant without any additional cost to Owner/ Consultant.



21.2 All specified construction joints, either horizontal or vertical, in any element of concrete member shall be provided with shear keys of such dimensions as would be determined by the Owner/Consultant. Before adopting the next operation for the other half of the element these shear keys along with the entire surface of the joint shall be roughened and deepened to above 20 mm by chipping, washing and cleaning thoroughly. The Contractor shall provide cement slurry in sufficient quantity over the cleaned surface for proper bond as per the direction of Owner/Consultant. The Contractor shall not be entitled to any extra/payment; on this account.

## 22.0 SUBMISSION OF BILL

Contractor is to submit the bills and record of measurements in three (3) copies on approved proforma of Owner for works executed by him.

### 22.1 FOR R/A BILLS:

Contractor is to submit the bills and record of measurements complete in all respect duly certified by Owner/Consultant in three copies on approved proforma of Owner for works executed by him progressively.

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## 22.2 MEASUREMENT OF WORKS

Measurement of work shall be made in the units mentioned in the schedule of rates.

## 22.3 SUBMISSION OF FINAL BILL

The final bill complete in all respect shall be submitted after certified completion of work. The bill should be accompanied with the following documents:

- Job completion certificate.
- O & M Manuals / Drawings / Other relevant docs. in respect of equipments supplied
- No claim certificate on OWNER's prescribed proforma.
- Site clearance certificate.
- Performance guarantee duly amended to cover certified maintenance period.
- Indemnity certificate towards labours payment and all other statutory payments.

No claim shall be entertained after receipt of final bill. Settlement of final bill shall be made within 1 (one) month period subject to furnishing of all required documents / clarification and extension of time, if any, by OWNER's competent authority.

**In case any claim with regard to the wages of any labour employed by Contractor for the subject job is pending/ reported, OWNER shall be fully entitled to withhold payment of final bill pending finalisation of such claims.**

## 23.0 PROVISION FOR MULTIFARIOUS CHECKING OF WORK



Before commencement of the actual concreting operation the position and layout of foundations, pedestals, inserts, pockets, recess, reinforcement and form work shall be checked repeatedly by Owner/Consultant. No claim whatsoever shall be entertained on this account. The level of foundations shall be accurately maintained as shown in the drawings or as directed by the Owner/Consultant. No padding, plastering or chipping shall be allowed for achieving the results.

## 24.0 DEFECT LIABILITY PERIOD

Defect Liability Period shall be 12 months from the date of certified Final completion of the work.

## 25.0 NO COMPENSATION FOR ALTERATION IN OR RESTRICTION OF WORK TO BE CARRIED OUT

If at any time after the commencement of the work, Owner/Consultant shall, for any reason whatsoever, not require the whole work thereof as specified in the tender to be carried out, the Owner/Consultant shall give notice in writing of the fact to the Contractor who shall have no claim of any payment or compensation whatsoever on account of any profit or advantage which he might have derived from the execution of work in full, but which he did not derive in consequence of the amount of the work not having been carried out, neither shall be Contractor have any claim for compensation by reasons of any alternations having

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been made in original specifications, drawings and instructions which shall involve any curtailment of the work as originally contemplated.

## **26.0 ACTION AND COMPENSATION PAYABLE IN CASE OF BAD WORK**

If it shall appear to the Owner/Consultant or his representative, that any work has been executed with unsound, imperfect or unskilful workmanship or with materials of any inferior description or that any materials or articles provided by him for the execution of the work are unsound or of a quality inferior to at contracted for, or otherwise not in accordance with the contract, the Contractor shall, on demand in writing from the Owner/Consultant specifying the work/materials/articles complained, notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require, or as the case may be, remove other unsuitable materials or articles so specified within a period specified by the Owner/Consultant at his own cost.

## **27.0 CLEARING, FILLING AND LEVELING OF SITE**

The site shown on the layout plan shall be cleared by the Contractor of all obstructions, loose stones, materials, rubbish of all kinds of bushes, trees, grass as well as brush wood. All holes/hollow, whether originally existing or produced by removal of loose stones or brush wood, shall be carefully filled up with earth, well rammed and leveled off as directed by the Owner/ Consultant. The Contractor will not be entitled to any payment in his regard.

## **28.0 CONTRACTOR TO COMPLY ALL LAWS**

28.1 The contract shall be governed by the law in force in the Republic of India.



28.2 The Contractor shall comply with all laws etc. The Contractor shall be responsible to secure compliance with the Central and States Laws as well as the Rules, Regulations, by-laws and orders of the legal authorities and statutory bodies which are in force or as may be in force from time to time. He shall give to the Municipal Corporation Committees, police and other relevant authorities all such notices, etc. as may be required by law and obtain all requisite license for temporary constructions, enclosures, etc. and pay all fees, taxes and such other dues or charges which may be leviable on account of any of his operations in executing the works under this contract. Owner/Consultant shall not pay anything extra to the Contractor on this account. The Contractor shall also make good at his own cost, any damage done by him to any adjoining property, during execution of work.

## **29.0 CONTRACTOR TO USE THE MATERIALS ONLY AFTER THE APPROVAL OF OWNER**

The Contractor shall use the materials only after the approval of Owner/ Consultant, before incorporation of the same in the works.

## **30.0 COMPLIANCE OF ENTIRE PROVISIONS IS OBLIGATORY TO CONTRACTOR**

It shall always prevail, unless otherwise specifically stated, that the entire provisions of the Tender Document have been accepted for compliance by the Contractor without any reservation.

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### 31.0 GENERAL

- 31.1 The location and general information regarding site on which the proposed work is to be executed is furnished in Attachment-I hereto.
- 31.2 Contractor shall acquaint himself with access to site, availability of local facilities such as railway siding, transport facilities, materials and labour and shall provide suitable allowances in his Bid, Contractor's quoted rate being firm, it should take into account all expenses likely to arise in this regard.
- 31.3 Contractor shall be deemed to have visited site and familiarized himself thoroughly with site conditions before submitting his Bid. Non-familiarity with site conditions will not be considered a reason either for extra claims or for not carrying out work in strict conformity with drawings and specifications.

### 32.0 DELIVERY AND DOCUMENTS



Delivery of the Goods shall be made by the Contractor in accordance with the terms specified by the Owner/Consultant in the schedule of requirements in Technical Specifications. and the special conditions of purchase, if any and the Goods shall remain at the risk of the Contractor until Delivery has been completed.

### 33.0 INCIDENTAL SERVICES

- 33.1 As specified in the special conditions of purchase, the Contractor may be required to provide any or all of the following services:
- i) Supervision of on-Site assembly and/or of the supplied Goods.
  - iii) Performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Contractor of any warranty obligations under this Purchase Order, and
- 33.2 Price charged by the Contractor for the preceding incidental services, if not included in the contract price for the Goods shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Contractor for similar services.
- 33.6 At the request of Consultant or Owner, Contractor shall at his expense, dismiss from work and replace any such employee as Owner/Consultant, may deem incompetent or careless or whose continued employment is deemed inimical to the interest of the Owner/Consultant or against public interest.
- 33.7 Other conditions of work at Site shall be mutually discussed and settled.

### 34.0 WORK AND WORKMANSHIP GUARANTEE

- 34.1 Contractor shall make arrangements to provide at no extra charge all temporary approaches to and within the site, after obtaining prior approval of Owner/Consultant of the layout of such approaches.

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- 34.2 To determine the acceptable standard of workmanship, Owner/Consultant may order Contractor to execute certain portions of work and services such as wall, flooring, joinery, finishes, roads and the like under the close supervision of Owner/Consultant. On approval, these items shall be labeled as guiding samples and work shall be executed to conform to these samples. These samples shall be prepared at the cost of Contractor.
- 34.3 Workmanship shall be of best possible quality and all the work shall be carried out by skilled workmen except for those which normally require unskilled persons. If the laws of local government, municipal or other authorities require employment of licensed or registered workmen of various trades, Contractor shall arrange to have the work done by such registered or licensed persons.
- 34.4 Workmanship shall be in accordance with the specifications, standards and codes which are part of this tender as well as the established engineering practices for this type of work. For any portion of work executed by Contractor and considered defective by Owner/Consultant, the Contractor shall have to take necessary remedial measures, to the complete satisfaction of Owner/Consultant, to make the defective good in order at his own cost without any liability to Owner/Consultant.

The Contractor shall be responsible for the proper workmanship and shall not be relieved of his obligation in this regard just because no objection was raised by Owner/ Consultant during the progress of work. The workmanship guarantee period will be 12 months from the date of final completion as a whole, certified by Owner.

If any defects are found due to bad workmanship during this period, the Contractor shall undertake to rectify the same at his cost, most expeditiously. The workmanship guarantee for rectified portion of work shall commence from the date of rectification for a subsequent period of 12 months. The decision of Owner/Consultant regarding bad workmanship shall be final binding and conclusive.

The Contractor shall be required to submit the performance guarantee accordingly.

### 35.0 PRIORITY OF DOCUMENTS



The following is the order of priority in descending order. High priority document shall take precedence over low priority document in case of any conflict:-

1. Drawings
2. Schedule of Rates
3. Scope of work & Technical Specifications
4. Special condition of contract
5. Terms of Payment
6. General Conditions of Contract
7. Site working and safety conditions
8. Standards (Standards here shall mean National/ International Standards & Specifications).
9. Issue of Materials

### 36.0 WEATHER CONDITIONS

Owner/Consultant may order Contractor to suspend any work which in the opinion of Owner/Consultant may be subject to damage by prevailing weather conditions. No claim whatsoever on this account shall be entertained.



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“It is presumed that the Contractor has familiarized himself with the weather conditions prevailing in the area therefore in such weather parameters if it appears to the Engineer –in –charge (EIC) that certain weather condition may damage the work or specified quality of the work can be achieved without stoppage of the work, the EIC in such conditions may require the Contractor to stop the work till such time as he thinks fit and appropriate. It is understood by the contractor that no compensation will be admissible on this count. However in exceptional circumstances at the recommendation of the EIC, Consultant/owner may grant reasonable extension of Time.

## **37.0 TIME SCHEDULE AND PROGRESS REPORTING**

### **37.1 Time schedule network/bar chart.**

37.1.1 Together with the Work Order/Contract confirmation, Contractor shall submit to Owner/Consultant, his time schedule regarding the documentation, supply of materials as well as information about of his Subcontracts to be placed with their parties, including the dates on which Contractor intends to issue such Subcontracts.

37.1.2 The time schedule will be in the form of a network or a bar chart clearly indicating all main or key events regarding documentation, supply of materials, delivery and site fabrication, erection, inspection, testing and completion.

37.1.3 The original issue and subsequent revisions of Contractor's time schedule and or Sub-contractor's time schedules shall be sent to Consultant in two copies (of which one shall be in Soft copy) and two copies to Owner.

37.1.4 The time schedule network/bar chart shall be updated at least every fortnight.

### **37.2 Progress Trend Chart/Monthly Report**

37.2.1 Contractor shall report weekly to Owner/Consultant the progress of the execution of Work Order/Contract and achievement of targets set out in time bar chart.

37.2.2 The progress will be expressed in percentages shown in the progress trend chart.

37.2.3 The first issue of the progress trend chart will be forwarded together with the time bar chart along with the Work Order confirmation.



37.2.4 The fortnightly reporting will bear the updating of the progress trend chart.

37.2.5 All reporting will be done on e-mails and hard copies wherever required will follow.

## **38.0 INSTRUCTIONS, DIRECTIONS AND CORRESPONDENCE**

38.1 The work described in Work Order is to be executed according to the standards, data sheets, tables, Specifications and Drawings attached hereto and/or enclosed with the Work Order itself and according to all conditions both general and specific enclosed with the Work Order, unless any or all of them shall have been modified or cancelled in writing as a whole or in part.



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- i) All instructions and orders to Contractor shall, excepting what is herein provided, be given by Owner/Consultant.
- ii) All the work shall be carried out under the direction of and to the satisfaction of Owner/Consultant.
- iii) All communications including technical/commercial clarifications and/or comments shall bear reference to the Work Order /Contract.
- iv) Invoice for payment against Work Order /Contract shall be addressed to Owner/Consultant.
- v) The WORK Order/Contract number shall be shown on all invoices, communications, packing lists, containers and bills of lading etc.



38.2 All correspondence from Contractor/Contractor shall be forwarded in duplicate (2 copies) to CONSULTANT and 02 copies to OWNER at following addresses:

CONSULTANT	OWNER
Projects & Development India Ltd., PDIL Site Office, Gorakhpur, UP.  Kind Attention : Engineer In-charge / Resident Construction Manager  Tel no. : _____ Fax no. : _____ E-mail : _____	Hindustan Urvarak & Rasayan Ltd., Core-2, 2 <sup>nd</sup> Floor, Scope Minar, Laxmi Nagar District Centre, Delhi-92  Kind Attention : Mr. Manish Goyal Sr. Project Manager  Tel no. : 011-22502267 Email : <a href="mailto:goyalm@hurl.net.in">goyalm@hurl.net.in</a>

- 38.3 Correspondence on technical and commercial matters shall be dealt with in separate letters for each Work Order /Contract and each copy of the letter shall be complete with all Annexures. Wherever possible, correspondence should be through e-mail to the above personnel so as to save time.
- 38.4 Correspondence for expediting and inspection shall be done directly with inspector with a copy to consultant & owner at above mentioned address.

### 39.0 STATUTORY VARIATION IN TAXES AND DUTIES

- 39.1 If any new taxes or duties (including any increase in rate of any existing taxes or duties) are levied in India after the date of submission of bids on any payments due to the CONTRACTOR under the CONTRACT other than tax on income, wealth or profits of the CONTRACTOR, the OWNER shall reimburse the CONTRACTOR the amount of such taxes or duties lawfully paid and borne by the CONTRACTOR against proof of payment. However, this is applicable within the GUARANTEED COMPLETION DATE only and shall not be reimbursed by OWNER during the delayed contractual project completion attributable to CONTRACTOR'S account.
- 39.2 If any existing taxes or duties are withdrawn or the rate is decreased after the date of submission of the bids on any payments due to the CONTRACTOR under the CONTRACT other than tax on income, wealth or profits of the CONTRACTOR, the OWNER shall be entitled to discount in the amount payable to the CONTRACTOR of amount equivalent to

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the amount of such taxes or duties. This is applicable within the GUARANTEED COMPLETION DATE and also during the delayed contractual Project completion.

- 39.3 In case of delayed completion beyond the GUARANTEED COMPLETION DATE even though extension of completion time is allowed by OWNER, for reasons solely attributable to Contractor, all extra costs on account of changes of statutory regulations/ acts, or increase in price on any other account including price variation clause, if any, shall not apply to the Contract price and shall be borne by the CONTRACTOR.

However, any decrease in taxes and duties during the delayed period shall be passed on to the OWNER.

#### **40.0 QUALITY ASSURANCE / QUALITY CONTROL**

- 40.1 Bidder shall include in his offer the Quality Assurance Programme containing the overall quality management and procedures which is required to be adhered to during the execution of contract. After the award of the contract detailed quality assurance programme shall be prepared by the Contractor for the execution of contract for various works which will be mutually discussed and agreed to.
- 40.2 The Contractor shall establish document and maintain an effective quality assurance system outlined in recognized codes.
- 40.3 Quality Assurance System plans/procedures of the Contractor shall be furnished in the form of a QA manual. This document should cover details of the personnel responsible for the Quality Assurance, plans or procedures to be followed for quality control in respect of Design, Engineering, Procurement, Supply, Installation, Testing and completion in all respect till final acceptance by Owner. The quality assurance system should indicate organizational approach for quality control and quality assurance of the construction activities, at all stages of work at site.
- 40.4 The Owner/Consultant or their representative shall reserve the right to inspect/witness, review any or all stages of work at shop/site as deemed necessary for quality assurance.
- 40.5 The Contractor has to ensure the deployment of quality Assurance and Quality Control Engineer(s) depending upon the quantum of work.  
This QA/QC group shall be fully responsible to carry out the work as per standards and all code requirements. In case Engineer-in-charge feels that Contractor's QA/QC Engineer(s) are incompetent or insufficient, Contractor has to deploy other experienced Engineer(s) as per site requirement and to the full satisfaction of Engineer-In-Charge.
- 40.6 In case Contractor fails to follow the instructions of Engineer-in-charge with respect to above clauses, next payment due to him shall not be released unless until he complies with the instructions to the full satisfaction of Engineer-in-charge.
- 40.7 The Contractor shall adhere to the approved quality assurance system

#### **41.0 HEALTH SAFETY AND ENVIRONMENT (HSE) MANAGEMENT**

The Contractor, during entire duration of the Contract, shall adhere to HSE requirement as per Specification enclosed in the Bidding Document.



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## PART-I : COMMERCIAL

### EXHIBIT-1

### EXPERIENCE CRITERIA

0	04.04.2018	FOR TENDER	SK	KJ	RRK
REV.	DATE	PURPOSE	PREPARED	REVIEWED	APPROVED

**TENDER DOCUMENT FOR PILING WORKS  
AT GORAKHPUR, UTTAR PRADESH  
EXHIBIT-1 : EXPERIENCE CRITERIA**

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Exh.-1



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7.	Completion Status	Specify	Date	
			Act.	Sch.
		- Completion Date  • Whether completion certificate enclosed  YES <input type="checkbox"/> NO <input type="checkbox"/>		
7.1	LD imposed/ Bonus claimed	YES/NO ; if yes, brief the reason:		
8.0	Document Furnished			
8.1	Copy of work order / Contract Agreement enclosed	YES <input type="checkbox"/> NO <input type="checkbox"/>		
8.2	Documentary proof from the End User/OWNER regarding satisfactory performance indicating the period of completion.	YES <input type="checkbox"/> NO <input type="checkbox"/>		

**Note :**

- Bidder shall furnish the experience details as above of Projects which they consider suitable for their pre-qualification. OWNER / CONSULTANT reserve the right not to evaluate any other Project details.
- Bidder to note that this exhibit form shall be filled as per the Proformas as stated, along with wherever applicable, copies of work order and completion certificates.
- Bidder to note that non-submission of relevant supporting documents may lead to rejection of their bid.** It is to be ensured that all relevant supporting documents shall be submitted alongwith the bid in the first instance itself. Pre-qualification may be completed based on the details so furnished without seeking any subsequent additional information.

For and on behalf of  
 Stamp & Signature : .....  
 Name : .....  
 Designation : .....  
 Date : .....



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## PART-I : COMMERCIAL

### EXHIBIT-2

### FINANCIAL CRITERIA

0	04.04.2018	FOR TENDER	SK	KJ	RRK
REV.	DATE	PURPOSE	PREPARED	REVIEWED	APPROVED

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH <b>EXHIBIT-2 : FINANCIAL CRITERIA</b>	EM-250/E/G-201/P-I/ Exh.-2	0	
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## EXHIBIT-2

**SUBJECT: TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH**



### FINANCIAL CRITERIA

Bidder shall furnish details with reference to the work, which pre-qualify them in line with Financial Criteria mentioned under Clause 8.0 of “Instructions to Bidders”.

#### **1.0 DETAILS OF PROJECT REFERENCES AS PER CLAUSE 8.0 OF “INSTRUCTIONS TO BIDDERS”**

SL. NO.	DESCRIPTION	PROJECT – 1, 2 etc. (Separate sheets for each Project)
1.	Project name and description	
2.	(a) Awarded contract value (INR)  One completed Work with contract value not less than <b>INR 36 Crore</b> OR Two completed Works each works with contract value not less than <b>INR 23.00 Crore</b> OR Three completed Works each works with contract value not less than <b>INR 18.00 Crore</b>	
	(b) Final executed contract value (INR)	
3.	Name of Owner	
	(a) Name and address of Owner's contact person	
	(b) Telephone and Fax No.	
	(c) Mobile No.	
	(d) Email No.	
4.	(a) Date / month / year of award / commencement of Project	
	(b) Date / month / year of Scheduled Completion of the Project.	
	(c) Date / month / year of Actual Completion of the Project.	
5.	Document Furnished	YES/NO
5.1	Copy of work order / Contract Agreement enclosed	



	<b>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH</b> <b>EXHIBIT-2 : FINANCIAL CRITERIA</b>	EM-250/E/G-201/P-I/ Exh.-2	0	
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SL. NO.	DESCRIPTION	PROJECT – 1, 2 etc. (Separate sheets for each Project)
5.2	Completion / Acceptance certificate identifying the successful commissioning of project.	

## 2.0 ANNUAL TURNOVER

SL. NO.	FINANCIAL YEAR	TURNOVER (IN INR)
1	FY: 2016-2017	
2	FY: 2015-2016	
3	FY: 2014-2015	

## 3.0 NET WORTH

Net worth as on the last day of the financial year ending 31 <sup>st</sup> March 2017:	: .....
--	---------



Whether copies of balance sheet and annual turnover statements for the above three financial years submitted	YES / NO
--	----------

## 4.0 SOLVENCY CERTIFICATE

NAME & ADDRESS OF BANK	ISSUE DATE	AMOUNT (INR)

### Note:

- Bidder shall furnish the experience details as above of Projects which they consider suitable for their pre-qualification. OWNER / CONSULTANT reserve the right not to evaluate any other Project details.
- Bidder to note that this exhibit form shall be filled as per the Proformas as stated, along with wherever applicable, copies of work order and completion certificates.

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3. The bidder shall attach fresh solvency certificate issued by his banker. The solvency certificate shall not be more than six months old from the date of issue of NIT OR minimum credit ratings of "A" from ICRA/CRISIL etc OR equivalent reputed institutions, OR financing/credit limits from bank of value not less than **INR 18.00 Crore** valid as on date of issue of ITB.
4. **Bidder to note that non-submission of relevant supporting documents may lead to rejection of their bid.** It is to be ensured that all relevant supporting documents shall be submitted alongwith the bid in the first instance itself. Pre-qualification may be completed based on the details so furnished without seeking any subsequent additional information.



For and on behalf of : .....

Stamp & Signature : .....

Name : .....

Designation : .....

Date : .....

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## **PART-I : COMMERCIAL**

### **ANNEXURE-1.1**

### **TENDER ACCEPTANCE LETTER**

**TENDER ACCEPTANCE LETTER**  
**(To be given on Company Letter Head)**

Date: \_\_\_\_\_

To,

Sub: Acceptance of Terms & Conditions of Tender.

NIT No: \_\_\_\_\_



Name of Tender/Work:-

Dear Sir,

1. I / We have downloaded/obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:  
\_\_\_\_\_  
as per your advertisement, given in the above mentioned website(s).
2. I / We hereby certify that I/ we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedules(s), etc.), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions/ clauses contained therein.
3. The corrigendum(s) issued from time to time by your department/ organization too has also been taken into consideration, while submitting this acceptance letter.
4. I / we hereby unconditionally accept the tender conditions of above mentioned tender document(s) corrigendum(s) in its totality / entirety.
5. In case any provisions of this tender are found violated, then your department/ organization shall without prejudice to any other right or remedy be at liberty to reject this tender/ bid including the forfeiture of the full said Earnest Money Deposit absolutely.

Yours Faithfully,



Signature of Bidder with Seal :  
Name :  
Date :  
Email Address :  
Contact Number :

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## **PART-I : COMMERCIAL**

### **ANNEXURE-1.2**

### **COMMERCIAL QUESTIONNAIRE**



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Note:



- 1) The Bidder shall submit reply to each query.
- 2) The Bidder's reply/ confirmation as furnished in the Commercial Questionnaire (CQ) shall supersede the stipulation mentioned else where in the bid.

Sl. No.	OWNER'S/PDIL'S QUERY	BIDDER'S REPLY / CONFIRMATION
1.	Please confirm that Master Index and copies of all technical and commercial amendments/addendums if any issued, duly signed and stamped on each page as a token of having received and read all parts of the bidding document and having accepted and considered the same in preparing their bid.	
2.	Please confirm that you have studied complete Bidding Document including Pre-Qualification Criteria, Technical and Commercial Part and your Bid is in accordance with the requirements of the Bidding Document.	
3.	Please confirm Bid Submission as per tender i.e. in Single Phase Two Bid System.	
4.	Please confirm that the Price Part does not include any terms and condition. In case any terms and condition is mentioned in the price part, the same shall be treated as null and void.	
5.	<b>Price confirmation copy</b> : Please confirm a Photocopy of the Schedule of Price, to be submitted strictly as per <b>Section-4.0 of Part-II, Technical</b> , Rates being blanked out and in place indicating " <b>Quoted</b> " against each head, shall be submitted duly signed and stamped as confirmation to quoted rate failing which bid may be rejected.	
6.	Please confirm your compliance to total scope of work mentioned in the Bidding Document. CONTRACTOR's scope shall include supply of all materials and services required for completion of Work irrespective of whether such materials and services are mentioned in the Bidding Document or not.	
7.	Please confirm your acceptance for Time Schedule as mentioned in Instructions to Bidders.	
8.	Please confirm your acceptance for Payment Terms as per Bidding Documents.	
9.	Please confirm that your bid is valid for 120 days from the date of opening of Technical and Unpriced Commercial Bid.	
10.	Please confirm EMD Validity as Bid Validity (120 Days) plus 03 Months.	
11.	Please confirm Damages for delay in completion as per	

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Sl. No.	OWNER'S/PDIL'S QUERY	BIDDER's REPLY / CONFIRMATION
	Article-25 of General Condition of Contract.	
12.	Please confirm Guarantee/Warranties as per Article-11 of General Conditions of Contract (GCC).	
13.	Please confirm that your Bid is substantially responsive to the requirements of the Bidding Document and you have not stipulated any material deviation and submitted all details as specified in the Bidding Document.	
14.	Please confirm that adequate numbers of construction equipments, tools, tackles, etc. have been proposed which will be sufficient to complete the work as per the time schedule.	
15.	Please confirm that you have proposed adequate project / site organization with qualified supervisory personnel having sufficient experience.	
16.	Please confirm that all costs resulting from safe execution of Work, such as safety induction, use of protective clothing, safety glasses and helmet, safety precaution taken during monsoon, or any other safety measures to be undertaken by the CONTRACTOR for execution of Work are included in the Lump sum Price.	
17.	Please confirm that all safety rules & regulations as mentioned in Bidding Document or notified at later date by OWNER during execution shall be adhered by CONTRACTOR.	
18.	The CONTRACTOR shall include safety rules & regulation and apply the same during the execution of the contract. Contractor shall also follow the safety guidelines of OWNER during the execution period of the contract.	
19.	<p>Please confirm the following :-</p> <p>"The planning schedule, manpower deployment schedule, construction equipment deployment schedule etc. submitted by the bidder with his bid are indicative and shall not be basis for extra compensation in case actual needs are higher.</p> <p>Detailed planning schedule developed by CONTRACTOR after Contract award may be subject to fluctuations depending upon actual progress of the project and available Work front.</p> <p>Co-ordination and making available by CONTRACTOR of all staff, manpower, construction equipment, tools, cranes, etc. and materials as required for a timely completion of all Work as per OWNER's construction and priority schedule and in accordance with the available Work front are to be included in the pricing".</p>	



	<b>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH COMMERCIAL QUESTIONNAIRE</b>	EM-250/E/G-201/P-I/ Annx.-1.2	0	
		DOC. NO.	REV.	
		Page 4 of 4		

Sl. No.	OWNER'S/PDIL'S QUERY	BIDDER's REPLY / CONFIRMATION																																				
	Notwithstanding the above provision, the bidder shall submit these details in accordance with the volume of work, which may be reviewed and commented by us during pre award stage /post award stage.																																					
20.	<p>Piling Works for Bored Cast-In-Situ Concrete Vertical Piles. The Scope of Work consists of mainly but not limited to the followings:-</p> <p>Following are the Plants/Area where piling works are envisaged :</p> <table><tr><td>1.</td><td>Administrative Building</td><td>10.</td><td>Weigh Bridge</td></tr><tr><td>2.</td><td>Technical Building</td><td>11.</td><td>Fire Water Pump House</td></tr><tr><td>3.</td><td>Canteen</td><td>12.</td><td>Warehouse &amp; Central Workshop</td></tr><tr><td>4.</td><td>Central Lab &amp; First Aid</td><td>13.</td><td>Utility Sub-Station</td></tr><tr><td>5.</td><td>Urea Silo</td><td>14.</td><td>Effluent Treatment Plant</td></tr><tr><td>6.</td><td>Bagging Plant</td><td>15.</td><td>DM Plant</td></tr><tr><td>7.</td><td>Wagon Loading Platform</td><td>16.</td><td>Instrument Air</td></tr><tr><td>8.</td><td>Conveyor gantry and transfer tower</td><td>17.</td><td>Inert Gas</td></tr><tr><td>9.</td><td>OSBL Pipe Rack</td><td></td><td></td></tr></table>	1.	Administrative Building	10.	Weigh Bridge	2.	Technical Building	11.	Fire Water Pump House	3.	Canteen	12.	Warehouse & Central Workshop	4.	Central Lab & First Aid	13.	Utility Sub-Station	5.	Urea Silo	14.	Effluent Treatment Plant	6.	Bagging Plant	15.	DM Plant	7.	Wagon Loading Platform	16.	Instrument Air	8.	Conveyor gantry and transfer tower	17.	Inert Gas	9.	OSBL Pipe Rack			
1.	Administrative Building	10.	Weigh Bridge																																			
2.	Technical Building	11.	Fire Water Pump House																																			
3.	Canteen	12.	Warehouse & Central Workshop																																			
4.	Central Lab & First Aid	13.	Utility Sub-Station																																			
5.	Urea Silo	14.	Effluent Treatment Plant																																			
6.	Bagging Plant	15.	DM Plant																																			
7.	Wagon Loading Platform	16.	Instrument Air																																			
8.	Conveyor gantry and transfer tower	17.	Inert Gas																																			
9.	OSBL Pipe Rack																																					
21.	The safety measures as mentioned in Tender Document/GCC/SCC shall not be considered as limitative. The CONTRACTOR will be required to develop their stringent safety measures and submit the same to Engineer-in-Charge with the provision of a dedicated safety group closely monitoring the construction activities in all working shifts.																																					
22.	<p>Please confirm the following that, a photocopy of the documents listed below has been enclosed in the bid:-</p> <ol style="list-style-type: none"><li>1. PAN Number</li><li>2. TIN Number</li><li>3. PF/ESI Number</li><li>4. GST Number</li><li>5. Labour Licence Registration Number</li><li>6. Latest Income Tax Clearance Certificate / ITR</li><li>7. Audited Balance Sheets</li></ol>																																					

For and on behalf of : .....

Stamp & Signature : .....

Name : .....

Designation : .....

Date : .....

 <div>पी डी आई एल <b>PDIL</b></div>	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH <b>NO DEVIATION CERTIFICATE</b>	EM-250/E/G-201/P-I/ Annx.-1.3	0	 <div>भारतीय नदी एवं तट सुरक्षा <b>HURL</b></div>
		DOC. NO.	REV.	
		Page 1 of 1		

## PART-I : COMMERCIAL

### ANNEXURE-1.3

### NO DEVIATION CERTIFICATE

(Self Declaration on Bidder's Letter Head as per below performa)

**DECLARATION**

1. With reference to our Bid Proposal No. .... dated ..... for Piling Works at Gorakhpur, Uttar Pradesh, we hereby confirm that we comply with all terms, conditions and specifications of the Bidding Documents read in conjunction with Amendments(s) / Clarification(s) / Addenda / Errata (if any) issued by the Owner prior to opening of Techno – Commercial Bids and the same has been taken into consideration while making our Techno – Commercial Bid & Price Bid and **we declare that we have not taken any deviation / exceptions in this regards.**
2. We further confirm that any deviation variation or additional conditions etc or any mention, contrary to the Bidding Documents and its Amendments(s) / Clarification(s) / Addenda / Errata (if any) as mentioned at 1.0 above found anywhere in our Techno – Commercial Bid and / or price Bid, implicit or explicit, shall stand unconditionally withdrawn, without any cost implication whatsoever to the Owner, failing which the Bid Security shall be forfeited.

For and on behalf of : .....

Stamp & Signature : .....

Name : .....

Designation : .....



Date : .....

 पी डी आई एल <b>PDIL</b>	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  <b>DETAILS OF SIMILAR WORKS EXECUTED</b>	EM-250/E/G-201/P-I/ Annx.-1.4	0	 भारतीय स्तर पर प्रमाणित <b>HURL</b>
		DOC. NO.	REV.	
		Page 1 of 1		

## PART-I : COMMERCIAL

### ANNEXURE-1.4

#### DETAILS OF SIMILAR WORKS EXECUTED

	<b>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH</b> <b>DETAILS OF SIMILAR WORKS EXECUTED</b>	EM-250/E/G-201/P-I/ Annx.-1.4	0	
		DOC. NO.	REV.	
		Page 2 of 2		

**SUBJECT: TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH**

**NAME OF THE PROJECT: BIDDER TO FILL**

SL. NO.	FULL POSTAL ADDRESS OF CLIENT AND NAME OF OFFICER IN-CHARGE WITH PHONE/CELL NO AND E-MAIL	DESCRIPTION OF THE WORK	VALUE OF CONTRACT	DATE OF COMMENCEMENT OF WORK	SCHEDULED COMPLETION PERIOD	ACTUAL COMPLETION DATE	REMARKS



Note : 1) Description of work should be in detail.

2) Please also indicate the major problems if any, faced during construction of works.

STAMP & SIGNATURE OF BIDDER : \_\_\_\_\_

NAME OF BIDDER : \_\_\_\_\_



DATE : \_\_\_\_\_

 <div>पी डी आई एल <b>PDIL</b></div>	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  <b>CURRENT COMMITMENTS</b>	EM-250/E/G-201/P-I/ Annx.-1.5	0	 <div>हिंदुस्तान खनिज एवं स्थापन निगम लि. <b>HURL</b></div>
		DOC. NO.	REV.	
		Page 1 of 1		

## PART-I : COMMERCIAL

### ANNEXURE-1.5

### CURRENT COMMITMENTS

	<b>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH</b>  <b>CURRENT COMMITMENTS</b>	EM-250/E/G-201/P-I/ Annx.-1.5	0	
		DOC. NO.	REV.	
		Page 2 of 2		

**SUBJECT: TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH**



SL. NO.	DESCRIPTION OF WORK	FULL POSTAL ADDRESS OF CLIENT & NAME OF OFFICER IN CHARGE	CONTRACT VALUE	DATE OF COMMENCEMENT OF WORK	SCHEDULED COMPLETION PERIOD	% AGE COMP. AS ON DATE	EXPECTED DATE OF COMPLETION	REMARKS

**STAMP & SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

**DATE** : \_\_\_\_\_





 पी डी आई एल <b>PDIL</b>	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  <b>DEPLOYMENT SCHEDULE FOR SUPERVISORY PERSONNEL</b>	EM-250/E/G-201/P-I/ Annx.-1.6	0	 भारतीय सड़क एवं राजमार्ग प्राधिकरण <b>HURL</b>
		DOC. NO.	REV.	
		Page 1 of 1		

## PART-I : COMMERCIAL

### ANNEXURE-1.6

### DEPLOYMENT SCHEDULE FOR SUPERVISORY PERSONNEL

	<p align="center"><b>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH</b></p> <p align="center"><b>DEPLOYMENT SCHEDULE FOR SUPERVISORY PERSONNEL</b></p>	EM-250/E/G-201/P-I/ Annx.-1.6	0	
		DOC. NO.	REV.	
		Page 2 of 2		

**SUBJECT: TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH**



S. No.	DESCRIPTION	DEPLOYMENT SCHEDULE																TOTAL
		M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	
1.	PROJECT MANAGER																	
2.	CONSTRUCTION MANAGER																	
3.	PLANNING ENGINEER																	
4.	ELECTRICAL ENGINEER																	
5.	CIVIL & STRUCTURAL ENGINEER																	
6.	SUPERVISORS																	
7.	ADMINISTRATION MANAGER																	
8.	WAREHOUSE PERSONNEL																	
9.																		
10.																		

**NOTE : Bidder may add more personnel as per job assessment / experience**

**STAMP & SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_



**DATE** : \_\_\_\_\_

 पी डी आई एल <b>PDIL</b>	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  DEPLOYMENT SCHEDULE FOR CONSTRUCTION EQUIPMENT	EM-250/E/G-201/P-I/ Annx.-1.7	0	 HURL
		DOC. NO.	REV.	
		Page 1 of 1		

## PART-I : COMMERCIAL

### ANNEXURE-1.7

### DEPLOYMENT SCHEDULE FOR CONSTRUCTION EQUIPMENT



	<b>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH</b>  <b>DEPLOYMENT SCHEDULE FOR CONSTRUCTION EQUIPMENT</b>	EM-250/E/G-201/P-I/ Annx.-1.7	0	
		DOC. NO.	REV.	
		Page 2 of 2		

**SUBJECT: TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH**

S. No.	DESCRIPTION	CAPACITY (Bidder to specify)	DEPLOYMENT SCHEDULE																TOTAL
			M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	
1.	HYDRAULIC RIG																		
2.	TYRE MOUNTED RIG																		
3.	CRANES																		
4.	JCB																		
5.	DOZER																		
6.	GRADER																		
7.	DIESEL GENERATORS																		
8.	WELDING MACHINE																		
9.	TRACTORS																		
10.	TRAILERS / TRUCKS																		
11.	DUMPERS																		
12.	EXCAVATORS																		
13.	VIBRATOR																		
14.	COMPACTORS																		
15.	OTHER TOOLS & TACKLES																		

**NOTE : Bidder may add more Equipments as per job assessment / experience.**



**STAMP & SIGNATURE OF BIDDER** : \_\_\_\_\_  
**NAME OF BIDDER** : \_\_\_\_\_  
**DATE** : \_\_\_\_\_

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  DETAILS OF EQUIPMENT PROPOSED FOR TENDERED WORK	EM-250/E/G-201/P-I/ Annx.-1.8	0	
		DOC. NO.	REV.	
		Page 1 of 1		

## PART-I : COMMERCIAL

### ANNEXURE-1.8

#### DETAILS OF EQUIPMENT PROPOSED FOR TENDERED WORK

	<b>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH</b> <b>DETAILS OF EQUIPMENT PROPOSED FOR TENDERED WORK</b>	EM-250/E/G-201/P-I/ Annx.-1.8	0	
		DOC. NO.	REV.	
		Page 2 of 2		

**SUBJECT: TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH**

<u>DETAILS OF PROPOSED EQUIPMENTS, TOOLS &amp; TACKLES</u>									
The bidder shall submit the details of construction equipments, Tools & tackles etc. in the following format, proposed to be deployed for this works.									
Sl. No.	EQUIPMENTS LIST REQUIRED TO BE DEPLOYED				STATUS OF EQUIPMENT		SCHEDULE DEPLOYMENT DATE AT SITE	SCHEDULED COMPLETION DATE OF WORK	REMARKS
	Description of Equipment	Make	Year	Capacity	Own by Contractor	If on Hiring (Give Detail Address)			



Note : 1. In case of equipment are to be hired, bidder shall indicate the source of hiring and enclosed and enclose the consent the letter from such sources.  
2. Bidder shall clearly indicate the expected data of availability of owned / hired equipment.

**NOTE : Bidder may add Equipments as per job assessment / experience.**

SIGNATURE OF BIDDER : .....

NAME OF BIDDER : .....

COMPANY SEAL : .....



	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  CONTENTS OF BID & CHECK LIST	EM-250/E/G-201/P-I/ Annx.-1.9	0	
		DOC. NO.	REV.	
		Page 1 of 3		

## PART-I : COMMERCIAL

### ANNEXURE-1.9

### CONTENTS OF BID AND CHECK LIST



	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  CONTENTS OF BID & CHECK LIST	EM-250/E/G-201/P-I/ Annx.-1.9	0	
		DOC. NO.	REV.	
		Page 2 of 3		

**SUBJECT: TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH**

Bidder is requested to fill this check list and ensure that all details /documents have been furnished under relevant section as called for in the Bidding Document duly filled in, signed & stamped.



Please tick the box and ensure compliance:

**SECTION-I : PRE-QUALIFICATION BID: (Refer Clause 8.0 of Instructions to Bidders)**

S.NO.	DESCRIPTION	SUBMITTED
i)	Letter of submission	<input type="checkbox"/>
ii)	Pre Qualification Criteria in favour of Experience Criteria as per <b>Exhibit-1</b> along with Copies of Work Orders, Certificates from End User/OWNER and completion certificates in support of prequalification requirement.	<input type="checkbox"/>
iii)	Pre Qualification Criteria in favour of Financial criteria as per <b>Exhibit-2</b> along with copies of Work Orders, Completion/ Acceptance certificates and Annual audited Report for the last three financial years. Annual Reports shall be a verifiable statement of annual accounts certified by a Chartered Accountant or Public Accountant in the form of printed annual reports or similar document.	<input type="checkbox"/>
iv)	<b>Solvency Certificate</b> as per Annexure-1.18. Date of Issue of this certificate should not more than six months old from the date of issue of NIT.	<input type="checkbox"/>
v)	Format for <b>Financial Capability</b> of Bidder as per Annexure-1.21	<input type="checkbox"/>



**SECTION-II : TECHNICAL AND COMMERCIAL BID:**

S.NO.	DESCRIPTION	SUBMITTED
i.	Photocopy of Earnest money Deposit (EMD)	<input type="checkbox"/>
ii.	Power of Attorney of Bid Signatory from the Competent Authority	<input type="checkbox"/>
iii.	Tender Acceptance Letter as per Annexure-1.1	<input type="checkbox"/>
iv.	Commercial Questionnaire as per Annexure-1.2	<input type="checkbox"/>
v.	No Deviation Certificate as per Annexure-1.3	<input type="checkbox"/>
vi.	Details of Similar Works Executed as per Annexure-1.4	<input type="checkbox"/>
vii.	Current Commitments of the Bidder as per Annexure-1.5	<input type="checkbox"/>

	<b>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH</b>  <b>CONTENTS OF BID &amp; CHECK LIST</b>	EM-250/E/G-201/P-I/ Annx.-1.9	0	
		DOC. NO.	REV.	
		Page 3 of 3		

S.NO.	DESCRIPTION	SUBMITTED
viii.	Deployment Schedule of Supervisory Personnel as per Annexure-1.6	<input type="checkbox"/>
ix.	Deployment Schedule of Construction Equipment as per Annexure-1.7	<input type="checkbox"/>
x.	Details of Equipment Proposed to be used for this work as per Annexure-1.8	<input type="checkbox"/>
xi.	Contents of Bid and Check List as per Annexure-1.9	<input type="checkbox"/>
xii.	A declaration shall be submitted as per Annexure-1.14 to the effect that Bidder have or had not been banned or blacklisted/del-listed by any PSU / Government Organizations.	<input type="checkbox"/>
xiii.	Declaration by Bidder regarding Bidding Document as per Annexure-1.16	<input type="checkbox"/>
xiv.	Photocopy of Integrity Pact as per Annexure-1.17	<input type="checkbox"/>
xv.	EFT details as per Annexure-1.19	<input type="checkbox"/>
xvi.	A declaration shall be submitted to the effect that Bidder submitting their Bid is not under liquidation, court receivership or similar proceedings as per Annexure-1.22	<input type="checkbox"/>
xvii.	Declaration for Past Safety Record as per Annexure-1.23	<input type="checkbox"/>
xviii.	Bidder to furnish PAN Number, TIN Number, PF/ESI Number, GST Number, Labor License Registration Number, Latest Income Tax Clearance Certificate / ITR etc. along with the bid.	<input type="checkbox"/>
xix.	<b>Price confirmation copy</b> - A Photocopy of the Schedule of Prices, to be submitted strictly as per <b>Section-4 of Part-II, Technical</b> , prices being blanked out and in place indicating <b>"Quoted"</b> against each head, shall be submitted duly signed and stamped. However, Bidder shall not hide the percentage of taxes and duties considered in the priced bid.	<input type="checkbox"/>
xx.	Master Index along with a copy of complete set of Bidding Documents of all technical and commercial amendments/addendums if any issued, duly signed and stamped on each page as a token of having received and read all parts of the bidding document and having accepted and considered the same in preparing their bid.	<input type="checkbox"/>
xxi.	Any other information required in the Bidding Documents or considered relevant by the Bidder.	<input type="checkbox"/>

For and on behalf of : .....  
 Stamp & Signature : .....  
 Name : .....  
 Designation : .....  
 Date : .....



 पी डी आई एल <b>PDIL</b>	<b>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH</b>  <b>TERMS OF PAYMENT</b>	EM-250/E/G-201/P-I/Annx.-1.10	0	 <b>HURL</b>
		DOC. NO.	REV.	
		Page 1 of 6		

## PART-I : COMMERCIAL

### ATTACHMENT - 1.10



### TERMS OF PAYMENT

0	09.05.2018	FOR TENDER	SK	KJ	RRK
REV.	DATE	PURPOSE	PREPARED	REVIEWED	APPROVED

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  TERMS OF PAYMENT	EM-250/E/G-201/P-I/Annx.-1.10	0	
		DOC. NO.	REV.	
		Page 2 of 6		

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2.0	PAYMENT TERMS.....	3
3.0	PRICE .....	5
4.0	INSTRUCTION FOR INVOICING & PAYMENT DOCUMENTATION.....	5

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  <b>TERMS OF PAYMENT</b>	EM-250/E/G-201/P-I/Annx.-1.10	0	
		DOC. NO.	REV.	
		Page 3 of 6		

## TERMS OF PAYMENT

### 1.0 FINANCIAL GUARANTEE FOR PERFORMANCE

The contractor shall provide financial guarantee within 15 days of award of work for due & faithful performance of the contract as per Article 6 of General Conditions of Contract.

### 2.0 PAYMENT TERMS

Following terms of payment shall be applicable:

#### 2.1. MOBILIZATION ADVANCE

Mobilization Advance not exceeding 10% of contract value shall be payable on submission of Bank Guarantee for the equivalent amount from a Nationalized / Scheduled Bank in the prescribed proforma, subject to furnishing the Performance Bank Guarantee. **An interest @ 10% per annum shall, however, be charged on the above Mobilization Advance till it is recovered.** Recovery of this Advance shall be made @ 15% from each bill so that full Mobilization Advance including interest is recovered by the time 75% work is done. The interest shall be calculated on the advance up to the date of release of payment(s). Mobilization Advance shall be paid only on acceptance of LOI/Work Order and establishment of Site Office by Contractor and submission and acceptance of **Security cum Performance Bank Guarantee by the Owner as mentioned in "Instructions to Bidders"**. The payment of Mobilization Advance shall be released with certification by Consultant/Owner.



#### 2.2. RUNNING ON ACCOUNT PAYMENT

**2.2.1 90% against value of actual work done** shall be paid against running bills within 30 days of certification by OWNER/CONSULTANT after recovery of the following:

- Mobilization Advance as indicated above.
- Statutory deduction such as Income-Tax as applicable.
- Any other recovery if become due.

**2.2.2 Balance 10% (Retention Money) of the SOR** shall be released along with final bill subject to the following:

The status of the contractor as L-1 bidder shall be ensured keeping in view the final executed Bill of Quantity. All the valid tenders considered in evaluation at the time of award of work shall be re-evaluated at the respective quoted rate with a view to assess whether L-1 contractor's price of completed works continues to be the lowest.

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  TERMS OF PAYMENT	EM-250/E/G-201/P-I/Annx.-1.10	0	
		DOC. NO.	REV.	
		Page 4 of 6		

In case after such re-evaluation, final contract value is not the lowest, the contractor shall reimburse to Owner the difference in the amount between the re-evaluated tender and the lowest tendered amount. This difference of amount shall be adjusted from their final bill.

However, if the amount recoverable exceeds the amount payable in final bill, the balance amount shall be recovered by the Owner, from the retention money and or performance bank guarantee / any other moneys or bank guarantees available with the Owner for any other job being done by the contractor. The contractor shall restore the performance guarantee to the requisite value to the extent of 10% of contract price in such case where recovery is required to be affected by the encashment as soon as the contractor receives such intimation from the Owner / Consultant.

**2.3. The Running Account Bills shall be submitted on Monthly basis. In addition to Running Account Bill, the contractor has to submit the Monthly Progress Report (Refer Annexure 1.24) duly approved by the Engineer-in-charge / Resident Construction Manager at site on monthly basis. This report will acts as a mandatory document for submission of the RA bill. Failing in timely submission of the report, the invoice will not be processed further for payment.**

2.4. The running on A/c Bills shall be submitted on monthly basis.

**2.5. RELEASE OF 1<sup>st</sup> R/A BILL**



Payment will be released against 1<sup>st</sup> R/A bill only on submission of following documents by contractor to the indenting department.

- i. **Monthly Progress Report duly approved by Engineer-in-charge/ Resident Construction Manager at site.**
- ii. Financial Guarantee for Performance
- iii. Labour License (as per statutory requirements)
- iv. EPF Code Registration number with RPFC/ARPF
- v. Insurance Contractor All Risk (CAR) Policy
- vi. Workmen compensation policy

**2.6. SUBMISSION OF FINAL BILL**

The final bill complete in all respect shall be submitted after certified completion of work. The bill should be accompanied with the following documents:

- i. Job completion certificate.
- ii. No claim certificate on HURL's prescribed proforma.
- iii. Site clearance certificate.
- iv. Performance guarantee duly amended to cover certified maintenance period.
- v. Indemnity certificate towards labours payment and all other statutory payments.

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  <b>TERMS OF PAYMENT</b>	EM-250/E/G-201/P-I/Annx.-1.10	0	
		DOC. NO.	REV.	
		Page 5 of 6		

No claim shall be entertained after receipt of final bill. Settlement of final bill shall be made within 1 (one) month period subject to furnishing of all required documents / clarification and extension of time, if any, by HURL's competent authority.

### 3.0 PRICE

The prices shall be firm during the entire contract period including all extensions granted on whatsoever ground may be.

### 4.0 INSTRUCTION FOR INVOICING & PAYMENT DOCUMENTATION

#### 4.1. INVOICING

Invoicing shall be in compliance with the stipulations of the LOI/Work Order and the following instructions. Contractor is liable for all costs arising from non compliance with the instructions.

As far as possible, description of Works in invoice shall match the description in Work Order. **Invoice for payment shall be addressed to Owner.**

The invoices shall be issued in the name of:

Hindustan Urvarak & Rasayan Limited,  
Core-2, 2<sup>nd</sup> Floor, Scope Minar,  
Laxmi Nagar District Centre, Delhi-92

Attn : Mr. Manish Goyal  
Sr. Project Manager  
Tel No. : 011-22502267  
Email: [goyalm@hurl.net.in](mailto:goyalm@hurl.net.in)



The invoice shall contain the following information:

- i. Work Order No.
- ii. Item no., quantity and complete description
- iii. Item-wise net price (unit and total) of the works where applicable.
- iv. Net amount payable by deducting advance payment already invoiced, if any, and the guarantee retention amount, if any, from the total value of the Works being invoiced.

The signed invoices, original and copy shall be made on Contractor's letter head and shall be duly signed.

Invoices for progress payment(s) shall state the information under (i), (ii) and (iii).  
Invoices for guarantee retention money shall state the information under (i) to (iv).





 पी डी आई एल <b>PDIL</b>	<p>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH</p> <p><b>TERMS OF PAYMENT</b></p>	EM-250/E/G-201/P-I/Annx.-1.10	0	 <b>HURL</b>
		DOC. NO.	REV.	
		Page 6 of 6		

#### 4.2. PROGRESS PAYMENT

- 1) Invoice for \_\_\_\_\_ in original and two (2) copies duly certified by Owner/ Consultant.
- 2) Performance certificate in one (1) original plus two (2) copies from the beneficiary to the effect that progress achieved is equal to progress invoiced, duly certified by Owner/Consultant.



	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  PROFORMA OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT (EMD) / BID SECURITY	EM-250/E/G-201/P-I/ Annx.-1.11	0	
		DOC. NO.	REV.	
		Page 1 of 3		

## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.11**

## **PROFORMA OF BANK GUARANTEE FOR EARNEST MONEY DEPOSIT (EMD) / BID SECURITY**

(To be stamped in accordance with Stamp Act,  
if any, of the Country of the issuing Bank)

Bank Guarantee No. ....  
Date.....

To:  
[Owner's Name and Address]

Dear Sirs,

In accordance with Invitation for Bids under your Bid Document No. ....  
M/s..... having  
its Registered/Head Office at..... (here-in-after  
called the 'Bidder') wish to participate in the said bid for .....[Name  
of Project].....

As an irrevocable bank guarantee against Bid Security for an amount of  
.....(\*).....valid for..... days  
from.....(\*\*).....required to be submitted by the Bidder  
as a condition precedent for participation in the said bid which amount is liable to be forfeited on the  
happening of any contingencies mentioned in the Bidding Documents.

We, the .....[Name & address of the  
Bank].....having our Head  
Office at.....(#).....guarantee and undertake to  
pay immediately on demand by.....[Name of the Owner] (hereinafter called the  
'Owner')..... the amount of  
.....(\*).....without any reservation, protest, demand and  
recourse. Any such demand made by the 'Owner' 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 .....(@)..... If any  
further extension of this guarantee is required, the same shall be extended to such required period (not  
exceeding one year) on receiving instructions from M/s ..... [Bidder's Name]..... on  
whose behalf this guarantee is issued. In witness where of the Bank, through its authorised officer, has  
set its hand and stamp on this.....day  
of.....20.....at.....

.....  
(Signature)

.....  
(Name)

.....  
(Designation with Bank Stamp)



Attorney as per

Power of Attorney No.....

Date.....

NOTE :

1.     (\*) The amount shall be as specified in Letter Inviting Bid.  
      (\*\*) This shall be the date of opening of Technical and Commercial bids.  
      (#) Complete mailing address of the Head Office of the Bank to be given.  
      (@) This date shall be three (3) months beyond bid valid.
2.     The Stamp Paper of appropriate value shall be purchased in the name of Bidder / Bank issuing the guarantee.

 <div>पी डी आई एल <b>PDIL</b></div>	<div>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH</div> <div>PROFORMA OF SECURITY CUM PERFORMANCE BANK GUARANTEE / SECURITY DEPOSIT</div>	EM-250/E/G-201/P-I/ Annx.-1.12	0	 <div>भारतीय नगरपालिका विकास प्राधिकरण <b>HURL</b></div>
		DOC. NO.	REV.	
		Page 1 of 3		

## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.12**

### **PROFORMA OF SECURITY CUM PERFORMANCE BANK GUARANTEE / SECURITY DEPOSIT**

(To be submitted on non judicial stamp paper of appropriate value)

## PROFORMA OF BANK GUARANTEE FOR CONTRACT PERFORMANCE

(This guarantee should be executed on non-judicial stamp paper of appropriate value)

In Consideration of **Hindustan Urvarak & Rasayan Limited, having its Registered Office at Coal Bhawan, 7<sup>th</sup> Floor, Plot No. AF-III, Action Area-1A, Newtown, Kolkata-700156,** (hereinafter referred to as the 'Owner' which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assigns) having awarded to M/s. \_\_\_\_\_ with its registered / Head Office at \_\_\_\_\_ (hereinafter referred to as the 'Contractor' which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns), a Contract by issue of Owner's Letter of Intent No. \_\_\_\_\_ dated \_\_\_\_\_ and the same having been unequivocally accepted by the Contractor, resulting in a contract \_\_\_\_\_ (scope of contract ) \_\_\_\_\_ and the Contractor having agreed to provide a Contract Performance Guarantee for the faithful performance of the entire Contract equivalent to Rs. \_\_\_\_\_ (%) \_\_\_\_\_ per cent) of the said value of the Contract to the Owner.

We \_\_\_\_\_ (name and address) \_\_\_\_\_ having its Head Office at \_\_\_\_\_ (hereinafter referred to as the 'Bank' which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) do hereby guarantee and undertake to pay the Owner, on demand any and all monies payable by the Contractor to the extent of \_\_\_\_\_ as aforesaid at anytime upto \_\_\_\_\_ (days/month/year) without any demur, reservation, context, recourse or protest and/or without any reference to the Contractor. Any such demand made by the Owner on the Bank shall be conclusive and binding notwithstanding any difference between the Owner and the Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. The Bank undertakes not to revoke this guarantee during its currency without previous consent of the Owner and further agrees that the guarantee herein contained shall continue to be enforceable till the Owner discharge this guarantee.

The Owner shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee, from time to time to extend the time for performance of the Contract by the Contractor. The Owner shall have the fullest liberty, without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor, and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied, in the contract between the Owner and the Contractor or any other course or remedy or security available to the Owner. The bank shall not be released to its obligations under these presents by any exercise by the Owner of its liberty with reference to the matters aforesaid or any of them or by reason of any other act of omission or commission on the part of the Owner or any other

indulgences shown by the Owner or by any other matter or thing whatsoever which under law would, but for this provision have the effect of relieving the Bank.

The Bank also agrees that the Owner at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee the Owner may have in relation on to the Contractor's liabilities.

Notwithstanding anything contained herein above our liability under this guarantee is restricted to Rs. \_\_\_\_\_ and it shall remain in force upto till \_\_\_\_\_. Unless a demand or claim under this performance bond is filed against us within six months from the expiry date of this Guarantee, i.e. on or before \_\_\_\_\_ all the rights under this performance bond shall be forfeited and we shall be relieved and discharged from all liability there under.



IN WITNESS, the Principal and surety have executed this performance bond and have affixed their seals on the date set forth.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 200 \_\_\_\_ at \_\_\_\_\_.

PRINCIPAL

CORPORATE SURETY



	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH <b>BANK GUARANTEE FOR ADVANCE/ PROGRESS PAYMENT</b>	EM-250/E/G-201/P-I/ Annx.-1.13	0	
		DOC. NO.	REV.	
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## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.13**

### **BANK GUARANTEE FOR ADVANCE / PROGRESS PAYMENT**

(To be submitted on non judicial stamp paper of appropriate value)

## PROFORMA OF BANK GUARANTEE FOR ADVANCE PAYMENT

(To be stamped in accordance with Stamp Act)

In Consideration of **Hindustan Urvarak & Rasayan Limited, having its Registered Office at Coal Bhawan, 7<sup>th</sup> Floor, Plot No. AF-III, Action Area-1A, Newtown, Kolkata-700156,** (hereinafter referred to as the 'Owner' which expression shall unless repugnant to the context or meaning thereof include its successors, administrators and assigns) having awarded to M/s. \_\_\_\_\_ (hereinafter referred to as the 'Contractor' which expression shall unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns), a Contract by issue of Owner's Letter of Intent No. \_\_\_\_\_ dated \_\_\_\_\_ and the same having been unequivocally accepted by the Contractor, resulting in a Contract \_\_\_\_\_ (*scope of contract*) \_\_\_\_\_ and the Owner having agreed to make an advance payment to the Contractor for performance of the above Contract amounting Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) as an advance against Bank Guarantee to be furnished by the Contractor.

We \_\_\_\_\_ (*name of the bank*) \_\_\_\_\_ having its Head Office at \_\_\_\_\_ (hereinafter referred to as the 'Bank', which expression shall, unless repugnant to the context or meaning thereof, include its successors, administrators, executors and assigns) do hereby guarantee and undertake to pay the Owner, immediately on demand any or, all monies payable by the Contractor to the extent of \_\_\_\_\_ as aforesaid at any time upto \_\_\_\_\_ @ \_\_\_\_\_ without any demur, reservation, context, recourse or protest and/or without any reference to the Contractor. Any such demand made by the Owner on the Bank shall be conclusive and binding notwithstanding any difference between the Owner and the Contractor or any dispute pending before any Court, Tribunal, Arbitrator or any other authority. We agree that the Guarantee herein contained shall be irrevocable and shall continue to be enforceable till the Owner discharges this guarantee.

The guarantee herein contained is not revocable by notice during the currency and will remain in full force until (a) payment has been made to the owner by the Bank of the aggregated amount payable herein under or (b) the said advance has been fully adjusted and extinguished, as hereafter set forth, whichever is earlier.



The Owner shall have the fullest liberty without affecting in any way the liability of the Bank under this guarantee, from time to time to vary the advance or to extend the time for performance of the Contract by the Contractor. The Owner shall have the fullest liberty without affecting this guarantee, to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the Contractor and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants, contained or implied with Contract between the Owner and the Contractor or any other course or remedy or security available to the Owner. The bank shall not be released of its obligations under these presents by any exercise by the Owner of its liberty with reference to the matters aforesaid or any of them or by reason of any other act or forbearance or other acts of omission or commission on the part of the Owner or any other indulgence shown by the Owner or by any

other matter or thing whatsoever which under law would but for this provision have the effect of relieving the Bank.

The Bank also agrees that the Owner at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Owner may have in relation to the Contractor's liabilities.

Notwithstanding anything contained herein above our liability under this guarantee is limited to \_\_\_\_\_ and it shall remain in force upto and including \_\_\_\_\_ @ \_\_\_\_\_ and shall be extended from time to time for such period (not exceeding one year), as may be desired by M/s. \_\_\_\_\_ on whose behalf this guarantee has been given.

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 200\_\_\_\_ at \_\_\_\_\_

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH <b>PROFORMA FOR BLACK-LISTED</b>	EM-250/E/G-201/P-I/ Annx.-1.14	0	
		DOC. NO.	REV.	
		Page 1 of 1		

## PART-I : COMMERCIAL

### ATTACHMENT - 1.14

### PROFORMA FOR BLACKLISTED

(Self Declaration on Bidder's Letter Head as per below performa)

**DECLARATION**

To ,

.....  
.....  
.....

**NIT NO. :** PNPM/EM-250/E/G-201

**SUBJECT :** TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH

Sir ,



We hereby declare that M/s ..... is neither put on Holiday or Black-listed by any Government / PSU / Private firm or Financial Institution.

Signature

Name :

Designation :

Seal of the Bidder.

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  FORMAT OF CONTRACT AGREEMENT	EM-250/E/G-201/P-I/ Annx.-1.15	0	
		DOC. NO.	REV.	
		Page 1 of 4		

## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.15**

### **FORMAT OF CONTRACT AGREEMENT**

## **FORMAT OF CONTRACT AGREEMENT**

(To be executed on non-judicial stamp paper of appropriate value)

THIS CONTRACT AGREEMENT is made the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_.

BETWEEN

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

WHEREAS the Owner desires to engage the Contractor to .....*[scope of work]*..... and the Contractor have agreed to such engagement upon and subject to the terms and conditions hereinafter appearing.

NOW IT IS HEREBY AGREED as follows:

### **ARTICLE 1. CONTRACT DOCUMENTS**

1.1 The following documents shall constitute the Contract between the Owner and the Contractor, and each shall be read and construed as an integral part of the Contract:

- a) This Contract Agreement and the Appendices hereto
- b) Letter of Award
- c) Amendment to the NIT document.
- d) Instruction to Bidders
- e) Special Conditions of Contract
- f) General Conditions of Contract
- g) Technical Specifications and Drawings
- h) The Bid and Schedule of Prices including Supplementary Price (*delete if not applicable*) submitted by the Contractor
- i) Integrity Pact (IP) signed between the Owner and the Bidder / Contractor

### **1.2 PRIORITY OF DOCUMENTS**

The following is the order of priority in descending order. High priority document shall take precedence over low priority document in case of any conflict:-

1. Drawings
2. Schedule of Rates
3. Scope of work & Technical Specifications
4. Special condition of contract
5. Terms of Payment
6. General Conditions of Contract
7. Site working and safety conditions
8. Standards (Standards here shall mean National/ International Standards & Specifications).
9. Issue of Materials

### **1.3 Definitions**

Capitalized words and phrases used herein shall have the same meanings as are ascribed to them in the General Conditions of Contract.

## **ARTICLE 2. CONTRACT PRICE AND PAYMENT TERMS**

### **2.1 Contract Price**

The Owner hereby agrees to pay to the Contractor the Contract Price in consideration of the performance by the Contractor of its obligations hereunder. The Contract Price shall be the *and [amount in words], [amount in figures]*, or such other sums as may be determined in accordance with the terms and conditions of the Contract.

### **2.2 Payment Terms**

Payment shall be made by the Owner to the Contractor as per the provisions of Bidding Documents.

## **ARTICLE 3. EFFECTIVE DATE FOR DETERMINING TIME FOR COMPLETION**

The Completion period of the Project shall be determined from the date of Letter of Award.

## **ARTICLE 4. NON-ASSIGNABILITY**

The Contract and benefits and obligations thereof shall be strictly personal to the CONTRACTOR and shall not on any account be assignable or transferable by the CONTRACTOR.

## **ARTICLE 5. GOVERNMENT OF INDIA NOT LIABLE**

It is expressly understood and agreed by and between the Contractor and the Owner that the Owner 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 the Owner 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 the general principles of Contract Law. The Contractor expressly agrees, acknowledges and understands that the Owner is not an Agent, Representative or Delegate of the Govt. 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, the Contractor 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 the Government of India as to any manner, claim, cause of action or thing whatsoever arising of or under this Contract.

## **ARTICLE 6. APPENDICES**

The Appendices listed in the attached list of Appendices shall be deemed to form an integral part of this Contract Agreement. Reference in the Contract to any Appendix shall mean the Appendices attached hereto, and the Contract shall be read and construed accordingly.

## **ARTICLE 7. NO LIABILITY ON DIRECTOR AND EMPLOYEE**

No Director, employee, consultant or agent of the OWNER or other person representing the OWNER or acting on behalf of the OWNER in or pursuant to the Contract or in the discharge of any obligation to the OWNER under the Contract or otherwise in relation to the Contract shall have any personal liability to the CONTRACTOR or any Sub-Contractor, agent, representative, director or employee of the CONTRACTOR or to any other person acting for or on behalf of the CONTRACTOR and the CONTRACTOR on its own behalf and



on behalf of its Sub Contractors, directors, employees, agents and representatives hereby waives and disclaims any and all right of action which it or they may have whether under tort or Contract or otherwise against the OWNER or any director, employee, agent, consultant or representative of the OWNER for act of omission or commission done or omitted to be done.

#### **ARTICLE 8. WAIVER**

No failure or delay by the OWNER in enforcing any right or remedy of the OWNER in terms of the CONTRACT or any obligation or liability of the CONTRACTOR in terms thereof, shall be deemed to be a waiver of such right, remedy, obligation or liability, as the case may be, by the OWNER and notwithstanding such failure or delay, the OWNER shall be entitled at any time to enforce such right, remedy, obligation or liability, as the case may be.

#### **ARTICLE 9. LANGUAGE OF CONTRACT AND COMMUNICATION**

The language of the Contract shall be English and all communications, drawings, design, data, information, codes specifications and other document whatsoever supporting the bid or otherwise exchanged under the Contract shall be in English. In the event that any technical documentation is in any language other than English, the document should be translated and presented to the OWNER/Project Manager in English and English document/translated document shall be regarded as the only authentic document.

IN WITNESS WHEREOF the Owner and the Contractor have caused this Agreement to be duly executed by their duly authorized representatives the day and year first above written.

Signed by for and on behalf of the Owner

\_\_\_\_\_  
[Signature]

\_\_\_\_\_  
[Title]

in the presence of \_\_\_\_\_

Signed by for and on behalf of the Contractor

\_\_\_\_\_  
[Signature]

\_\_\_\_\_  
[Title]

in the presence of \_\_\_\_\_

CONTRACT AGREEMENT



dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

BETWEEN

\_\_\_\_\_  
["the Owner"]

and

\_\_\_\_\_  
["the Contractor"]

 पी डी आई एल <b>PDIL</b>	<b>TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH DECLARATION BY BIDDER REGARDING BIDDING DOCUMENT</b>	EM-250/E/G-201/P-I/ Annx.-1.16	0	
		DOC. NO.	REV.	
		Page 1 of 1		

## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.16**

### **DECLARATION BY BIDDER REGARDING BIDDING DOCUMENT**

(Declaration on Bidder's Letter Head as per below performa)

**SUBJECT: TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH**

We \_\_\_\_\_ (Name of the Bidder) hereby represent that we have gone through and understood the Bidding Documents, **NIT NO: PNPM/EM-250/E/G-201 DATED \_\_\_\_\_** (including but not limited to) the Commercial & Technical Requirements/ Specifications in **Part-I : Commercial and Part-II : Technical** of the Bidding documents and amendments, if any, and that our Bid has been prepared accordingly in compliance with the requirements stipulated in the said documents.

We are submitting a copy of complete set of Bidding Documents, **Part-I : Commercial and Part-II : Technical and Amendments**, if any, as part of our Bid duly signed and stamped on each page in token of our acceptance. Further we undertake that in the event of award of work to us, all the parts shall be considered for constitution of Contract Agreement.



For and on behalf of : .....

Stamp & Signature : .....

Name : .....

Designation : .....

Date : .....

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  FORMAT FOR INTEGRITY PACT	EM-250/E/G-201/P-I/ Annx.-1.17	0	
		DOC. NO.	REV.	
		Page 1 of 8		

## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.17**

### **FORMAT FOR INTEGRITY PACT**

## INTEGRITY PACT

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on \_\_\_\_ day of the month of \_\_\_\_\_ 2018, between **M/s Hindustan Urvarak & Rasayan Ltd.**, registered under Companies Act, 2013, having its registered office at **having its Registered Office at Hindustan Urvarak & Rasayan Limited, having its Registered Office at Coal Bhawan, 7<sup>th</sup> Floor, Plot No. AF-III, Action Area-1A, Newtown, Kolkata-700156**, (hereinafter referred to as [HURL], which expression shall mean and include, unless the context otherwise requires, its successors and assigns) of the First Part and M/s \_\_\_\_\_ a Company, firm incorporated under \_\_\_\_\_ Laws to which it is subject to (hereinafter called the "Bidder/Seller", which expression shall mean and include, unless the context otherwise requires, its successors, heirs / legal representatives / administrator in office and assigns) of the Second Part.

Whereas

HURL has issued NIT \_\_\_\_\_ dated \_\_\_\_\_ inviting bids from Parties for undertaking-the Project /Work of \_\_\_\_\_ at its unit located at \_\_\_\_\_ (hereinafter referred to as the Project /Work). The BIDDER is a private Company/Public Company/Government Undertaking / Partnership / registered export agency, constituted in accordance with the relevant law in the matter and HURL is joint venture company incorporated by Indian Oil Corporation Ltd. (IOCL), National Thermal Power Corporation Ltd. (NTPC), Coal India Ltd. (CIL), The Fertilizer Corporation of India Ltd. (FCIL) and Hindustan Fertiliser Corporation Ltd. (HFCL).

The Bidder is willing to offer/ has offered to carry out the Project/ Work and understands that this Integrity Pact has to be executed between the parties before HURL can consider the offer.

### **NOW, THEREFORE,**

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to :-

Enabling HURL to undertake the Project/Work at a competitive price in conformity with the defined specifications by avoiding the high costs and the distort nary impact of corruption on public procurement, and

Enabling BIDDER to abstain from bribing or indulging in any corrupt practices in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and HURL will commit to prevent corruption, in any form, by its officials by following transparent procedures.

In respect of the Project/Work an Independent Monitor shall be appointed by HURL to verify facts and to take necessary action, legal or otherwise as may be deemed appropriate including criminal proceedings, against the persons and /or Organizations indulging in the corrupt practice.

**NOW, THEREFORE IN CONSIDERATION OF THE MUTUAL COVENANTS CONTAINED HEREIN, THE PARTIES AGREE AS UNDER:**

## **1.0 COMMITMENTS OF HURL:**

- 1.1 HURL undertakes that no official of HURL, connected directly or indirectly with the Project/Work, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any other person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 HURL will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular Bidder in comparison to other BIDDERS.
- 1.3 HURL will report to the Independent Monitor of any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach. HURL will also report to appropriate Government Office wherever necessary”.

## **2.0 PRECEDING MISCONDUCT:**

- 2.1 In case any preceding misconduct on the part of any official(s) is reported by the BIDDER to the Independent Monitor with full and verifiable facts and the same is prima facie found to be correct by the Independent Monitor, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by HURL or the Independent Monitor and such a person shall be debarred from further dealings related to contract process. In such a case while an enquiry is being conducted by HURL the proceedings under the contract would not be stalled.

## **3.0 COMMITMENTS OF BIDDER:**

- 3.1 The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:
- 3.2 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the HURL, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.3 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of HURL or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with HURL for showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with HURL.
- 3.4 BIDDER shall disclose the name(s) and address(es) of foreign principals, associates, agents and distributors, advisors, representatives and sub-contractors.

- 3.5 BIDDER shall disclose the payments to be made by them to agents/ brokers or any other intermediary, in connection with this bid/ contract.
- 3.6 The BIDDER further confirms and declares to HURL that he has not engaged any individual or firm or company, whether Indian or foreign, to intercede, facilitate or in any way to recommend to HURL or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or Company in respect of any such intercession, facilitation or recommendation.
- 3.7 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose complete details of any payments made, is committed to or intends to make to any officials of HURL or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.8 The BIDDER will not collude with other parties, interested in the contract, to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.9 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.10 The BIDDER shall not use improperly, for purposes of completion or personal gain, or pass on to others, any information provided by HURL as part of the business relationship, such as plans, technical proposals and business details including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care to ensure that no information is divulged to others.
- 3.11 The BIDDER commits to refrain from giving any complaint in connection with the Project, directly or through any other manner, without supporting it with full and verifiable facts.
- 3.12 The BIDDER shall not instigate or cause to instigate any third party to commit any of the actions aforestated.
- 3.13 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the employees of HURL, or, if any relative of an employee of HURL has financial interest/stake in the BIDDER, the same shall be disclosed by the BIDDER at the time of filing the tender.

The term 'relative' for this purpose would be as defined in Companies Act, 2013 or any modifications thereof.

- 3.14 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of HURL.

#### **4.0 PREVIOUS TRANSGRESSION**

- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact with HURL, in respect of any corrupt practices envisaged hereunder, and/or with any Public Sector Enterprises/ Government department that could justify BIDDERS exclusion from the tender process.

- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process of the contract, and if already awarded, the Contract can be terminated for such reason.

## **5.0 EARNEST MONEY / SECURITY DEPOSIT:**

- 5.1 While submitting commercial bid, the BIDDER shall deposit an amount \_\_\_\_\_ as Earnest Money/Security Deposit, with HURL through any of the following instruments:

(i) Bank draft or pay order in favour of

(ii) A confirmed guarantee by an Indian Nationalized Bank, promising payment of the guaranteed sum to the Buyer on demand within three working days without any demur whatsoever and without seeking any reasons whatsoever. The demand for payment by the Buyer shall be treated as conclusive proof of payment

(iii) Any other mode or through any other instrument

- 5.2 The amount and validity of the earnest money / Security Deposit shall be as mentioned in the NIT.

- 5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to Performance Bond in the purchase contract that the provisions of Sanctions for Violation shall be applicable for forfeiture of Performance Bond in case of the decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

- 5.4 No interest shall be payable by the HURL to the BIDDER on Earnest Money/ Security Deposit for the period of its currency.

## **6.0 SANCTIONS FOR VIOLATIONS**

- 6.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle HURL to take all or any one of the following actions, wherever required:-

i. To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.

ii. The Earnest Money Deposit (in pre-contract stage) and /or Security Deposit/Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by HURL, without assigning any reason thereof.

iii. To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.

iv. To recover all sums already paid by HURL, together with interest thereon at 2% higher than the prevailing Lending Rate of State Bank of India or at 2% higher than LIBOR as may be applicable based on whether the bidder is an Indian party or a foreign party. If any outstanding



payment is due to the BIDDER from HURL in connection with any other contract for any other Project/Work/ Supply, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

v. To encash the advance bank guarantee and performance bond/ warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by HURL, along with interest.

vi. To terminate all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to HURL resulting from such termination and RCF shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

vii. To debar/blacklist the BIDDER from participating in future bidding processes of HURL for a minimum period of five years, which may be further extended at the discretion of HURL.

viii. To recover all sums paid, in violation of this Pact by BIDDER to any middleman or agent or broker, with a view to securing the contract.

ix. In case where irrevocable Letters of Credit have been opened in respect of any contract signed by HURL with the BIDDER, the same shall not be operated.

x. Forfeiture of Performance Bond in case of a decision by HURL to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2 HURL will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (Whether with or without the knowledge of the BIDDER) of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of HURL to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the Bidder can approach the Independent Monitor appointed for the purposes of this Pact.

## **7.0 INDEPENDENT MONITOR:**

7.1 HURL has appointed following persons as Independent Monitor for this Pact:

(i) Name : .....  
Address:  
Email:  
Mobile:

(ii) Name : .....  
Address:  
Email:  
Mobile:

7.2 The task of the Monitor shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

- 7.3 The Monitor shall not be subject to instructions by the representatives of the parties and perform his functions neutrally and independently.
- 7.4 Both the parties accept that the Monitor has the right to access all the documents relating to the project/ procurement, including minutes of meetings.
- 7.5 As soon as the Monitor notices, or has reason to believe a violation of this Pact, he will so inform the Authority designated by HURL.
- 7.6 Notwithstanding any Confidentiality Agreement/ clause agreed between HURL and Bidder, the BIDDER accepts that the Monitor has the right to access, without restriction, to all Project documentation of HURL including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to this project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/ Subcontractor (s) with confidentiality.
- 7.7 HURL will provide to the Monitor sufficient information about all meetings among the parties related to the supply provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 7.8 The Monitor will submit a written report to the designated Authority of HURL within 8 to 10 weeks from the date of reference or intimation to him by HURL/ BIDDER and should the occasion arise, submit proposals for correcting problematic situations.

## **8.0 FACILITATION OF INVESTIGATION**

In case of any allegation of violation of any provisions of these terms or payment of commission, HURL shall be entitled to examine all the project documents of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

## **9.0 LAW AND PLACE OF JURISDICTION**

This Pact is subject to Indian Law. The place of performance and jurisdiction is the registered office of HURL.

## **10.0 OTHER LEGAL ACTIONS**

The Actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

## **11.0 VALIDITY**

- 11.1 The validity of this Integrity Pact shall be from date the NIT is issued and extend upto two years from the date of last payment under the contract. In case BIDDER is not awarded Contract/Purchase Order, this Integrity Pact shall expire after twelve months from the date of issue of the NIT.

11.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

12.0 The parties hereby sign this Integrity Pact, through their authorized representative, for having accepted the conditions contained hereinabove.

**HURL**

( )

*Date:*

*Place:*

Witness

1. \_\_\_\_\_

2. \_\_\_\_\_

**BIDDER**

( )



*Date:*

*Place:*

Witness

1. \_\_\_\_\_

2. \_\_\_\_\_

 <div>पी डी आई एल <b>PDIL</b></div>	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  <b>PROFORMA FOR SOLVENCY CERTIFICATE</b>	EM-250/E/G-201/P-I/ Annx.-1.18	0	 <div>उत्तर प्रदेश नदी विकास बोर्ड <b>HURL</b></div>
		DOC. NO.	REV.	
		Page 1 of 1		

## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.18**

### **PROFORMA FOR SOLVENCY CERTIFICATE**

## PROFORMA FOR SOLVENCY CERTIFICATE

(on Bank's Letter Head)

REF NO:.....

DATE:.....

To Whomsoever Concerned

This is to certify that to the best of our knowledge and information, M/s\_\_\_\_\_ (Bidders name with complete address), a customer of our Bank, is respectable, and is capable of executing orders to the extent of Rs. \_\_\_\_\_ (Rupees\_\_\_\_\_). M/s\_\_\_\_\_ have been our customer since \_\_\_\_\_ to date and has been granted the following limits, at present, against various facilities granted by the Bank:



.....  
.....

This certificate is issued without any guarantee, risk or responsibility on behalf of the Bank or any of its officials.

This certificate is issued at the specific request of the customer.

Yours faithfully,



(Bank Official's signature & stamp)

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH FORMAT FOR EFT DETAILS	EM-250/E/G-201/P-I/ Annx.-1.19	0	
		DOC. NO.	REV.	
		Page 1 of 1		

## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.19**

### **FORMAT FOR EFT DETAILS**

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH FORMAT FOR EFT DETAILS	EM-250/E/G-201/P-I/ Annx.-1.19	0	
		DOC. NO.	REV.	
		Page 2 of 2		

### FORMAT FOR EFT DETAILS

I / WE hereby agree to receive the payment against our bills raised to M/s Hindustan Urvarak & Rasayan Ltd. directly in our bank account as per details given below through Electronic Fund Transfer Mechanism. Necessary details are given as below:

- 1 Name, Branch and address of Payee's bank : \_\_\_\_\_
- 2 Title of the account : \_\_\_\_\_
- 3 Account number : \_\_\_\_\_
- 4 Nature of the Account : \_\_\_\_\_
- 5 Branch MICR code number : \_\_\_\_\_
- [Enclose photocopy of cancelled cheque] : \_\_\_\_\_
- 6 Permanent Account Number : \_\_\_\_\_
- [PAN] of the Payee : \_\_\_\_\_
- 7 IFSC Code : \_\_\_\_\_

**STAMP & SIGNATURE OF BIDDER** : \_\_\_\_\_

**NAME OF BIDDER** : \_\_\_\_\_

**DATE** : \_\_\_\_\_



	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH GENERAL GUIDELINES FOR GST	EM-250/E/G-201/P-I/ Annx.-1.20	0	
		DOC. NO.	REV.	
		Page 1 of 3		

## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.20**

### **GENERAL GUIDELINES FOR GOODS & SERVICE TAX (GST)**





	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH GENERAL GUIDELINES FOR GST	EM-250/E/G-201/P-I/ Annx.-1.20	0	
		DOC. NO.	REV.	
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## **GENERAL GUIDELINES FOR GOODS & SERVICE TAX (GST)**

### **1.0 GST (Goods & Service Tax)**

- 1.1 Bidders are required to submit copy of the GST Registration Certificate while submitting the bids wherever **GST** is applicable.
- 1.2 Quoted prices should be inclusive of all taxes and duties, except **GST**. Please note that the responsibility of payment of **GST (CGST & SGST or IGST or UTGST)** lies with the Contractor/Supplier/Service Provider of Goods / Services only. Contractor/Supplier/Service Provider of Goods / Services (Service Provider) providing taxable service shall issue an Invoice/Bill, as the case may be as per prevailing rules/ regulation of GST. Further, returns and details required to be filled under GST laws & rules should be timely filed by Contractor/Supplier/Service Provider of Goods / Services (Service Provider) with requisite details.
- 1.3 Payments to Contractor/Supplier/Service Provider for claiming **GST** amount will be made provided the above formalities are fulfilled. Further, OWNER may seek copies of challan and certificate from Chartered Accountant for deposit of **GST** collected from Owner.
- 1.4 In case CBEC (Central Board of Excise and Customs)/ any equivalent government agency brings to the notice of OWNER that the Contractor/Supplier/Service Provider of Goods / Services has not remitted the amount towards **GST** collected from OWNER to the government exchequer, then, that Contractor/Supplier/Service Provider of Goods / Services shall be put under Holiday list of OWNER for period of six months.
- 1.5 In case of statutory variation in **GST**, other than due to change in turnover, payable on the contract value during contract period, the Contractor/Supplier/Service Provider of Goods / Services shall submit a copy of the 'Government Notification' to evidence the rate as applicable on the Bid due date and on the date of revision.
- 1.6 In case contract completion is delayed for the reasons not attributable to OWNER, then any increase in the rate of **GST beyond** the contractual delivery period shall be to Contractor/Supplier/Service Provider's account whereas any decrease in the rate **GST** shall be passed on to the Owner.
- 1.7 In case contract completion is delayed for the reasons attributable to OWNER then any increase in the rate of **GST beyond** the contractual delivery period shall be to OWNER's account whereas any decrease in the rate **GST** shall also be passed on to the Owner.
- 1.8 Claim for payment of Statutory variation of **GST**, should be raised within two [02] months from the date of issue of 'Government Notification' for payment of differential (in %) **GST**, otherwise claim in respect of above shall not be entertained for payment of arrears. The base date for the purpose of applying statutory variation shall be the Bid Due Date.
- 1.9 Where OWNER has the obligation to discharge **GST** liability under reverse charge mechanism and OWNER has paid or is /liable to pay **GST** to the Government on which interest or penalties becomes payable as per GST laws for any reason which is not attributable to OWNER or ITC with respect to such payments is not available to OWNER for any reason

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH GENERAL GUIDELINES FOR GST	EM-250/E/G-201/P-I/ Annx.-1.20	0	
		DOC. NO.	REV.	
		Page 3 of 3		

which is not attributable to OWNER, then OWNER shall be entitled to deduct/ setoff / recover such amounts against any amounts paid or payable by OWNER to Contractor / Supplier.



- 1.10 Contractor shall ensure timely submission of invoice(s) as per rules/ regulations of **GST** with all required supporting document(s) within a period specified in Contracts/ LOA to enable OWNER to avail input tax credit. Further, returns and details required to be filled under **GST** laws & rules should be timely filed by supplier with requisite details.

If input tax credit with respect to **GST** is not available to OWNER for any reason attributable to Contractor/Supplier/Service Provider which is not attributable to OWNER, then OWNER shall not be obligated or liable to pay or reimburse **GST** charged in the invoice(s) and shall be entitled to / deduct/ setoff /recover the such **GST** thereupon together with all penalties and interest if any, against any amounts paid or payable by OWNER to Supplier of Goods / Services.

## 2.0 ANTI-PROFITEERING CLAUSE

As per Clause 171 of GST Act it is mandatory to pass on the benefit due to reduction in rate of tax or from input tax credit to the consumer (OWNER in this case) by way of commensurate reduction in prices. The Contractor/Supplier/Service Provider of Goods / Services may note the above and quote their prices accordingly.

**२३**

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  FORMAT FOR FINANCIAL CAPABILITY OF THE BIDDER	EM-250/E/G-201/P-I/ Annx.-1.21	0	
		DOC. NO.	REV.	
		Page 1 of 1		

## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.21**

### **FORMAT FOR FINANCIAL CAPABILITY OF BIDDER**

(On Chartered Accountant's Letter Head)

**FORMAT FOR CHARTERED ACCOUNTANT CERTIFICATE FOR FINANCIAL  
CAPABILITY OF THE BIDDER**

We have verified the Annual Accounts and other relevant records of M/s..... (Name of the bidder) and certify the following

**A. ANNUAL TURNOVER OF LAST 3 YEARS:**

Year	Amount (INR)
Year 1: 2016-17	
Year 2: 2015-16	
Year 3: 2014-15	

**B. FINANCIAL DATA FOR LAST AUDITED FINANCIAL YEAR :**



Description	FY Closing as on 31.03.2017
	Amount (INR)
Current Assets	
Current Liabilities	
Working Capital (Current Assets- Current liabilities)	
Net Worth (Paid up share capital and Free Reserves & Surplus)	

Name of Audit Firm:  
Chartered Accountant  
Date:

[Signature of Chartered Accountant]  
Name:  
Designation:  
Seal:  
Membership no.:

**Instructions:**

1. The financial year would be the same as one normally followed by the bidder for its Annual Report.
2. The bidder shall provide the audited annual financial statements as required for this Tender document. Failure to do so would result in the Proposal being considered as non responsive.
3. For the purpose of this Tender document, (i) Annual Turnover shall be "Sale value/ Operating Income" (ii) Working Capital shall be "Current Assets less Current liabilities" and (iii) Net Worth shall be "Paid up share capital and Free Reserves & Surplus"
4. **This certificate is to be submitted on the letter head of Chartered Accountant.**

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  FORMAT FOR BIDDER NOT UNDER LIQUIDATION, COURT RECEIVERSHIP OR SIMILAR PROCEEDINGS	EM-250/E/G-201/P-I/ Annx.-1.22	0	
		DOC. NO.	REV.	
		Page 1 of 1		

## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.22**

### **FORMAT FOR BIDDER NOT UNDER LIQUIDATION, COURT RECEIVERSHIP OR SIMILAR PROCEEDINGS**

(Self Declaration on Bidder's Letter Head as per below performa)

**DECLARATION**

To ,

.....  
.....  
.....

**NIT NO. : PNPM/EM-250/E/G-201**

**SUBJECT : TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR  
PRADESH**

Sir ,



We hereby declare that M/s ..... is not under liquidation, court  
receivership or similar proceedings as on date.

Signature

Name :

Designation :

Seal of the Bidder.

	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH FORMAT FOR PAST SAFETY RECORD	EM-250/E/G-201/P-I/ Annx.-1.23	0	
		DOC. NO.	REV.	
		Page 1 of 1		

## PART-I : COMMERCIAL

### ATTACHMENT - 1.23

### FORMAT FOR PAST SAFETY RECORD

(Self Declaration on Bidder's Letter Head as per below performa)

**DECLARATION**

To ,

.....  
.....  
.....

**NIT NO. : PNPM/EM-250/E/G-201**

**SUBJECT : TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR  
PRADESH**

Sir ,

We hereby declare that, we have taken up all safety measures during the past 5 years while executing the works awarded to me.

No deviation and casualty has been found during execution of the contract.

The above information is true and correct to the best of my knowledge and belief.

Signature



Name :

Designation :

Company Name :

Seal of the Bidder :



 पी डी आई एल <b>PDIL</b>	TENDER DOCUMENT FOR PILING WORKS AT GORAKHPUR, UTTAR PRADESH  FORMAT FOR PROGRESS REPORT	EM-250/E/G-201/P-I/ Annx.-1.24	0	 हि.प्र.रा.स.स.प.स.
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## **PART-I : COMMERCIAL**

### **ATTACHMENT - 1.24**

### **FORMAT FOR PROGRESS REPORT**

CLIENT  
CONSULTANT  
CONTRACTOR  
PROJECT DETAILS  
PROJECT LOCATION  
LOI Ref. NO.  
PROJECT ZERO DATE  
SCHEDULE COMPLETION DATE

HINDUSTAN URAVARAK RASAYAN LIMITED (HURL)  
PROJECTS & DEVELOPMENT INDIA LIMITED (PDIL)

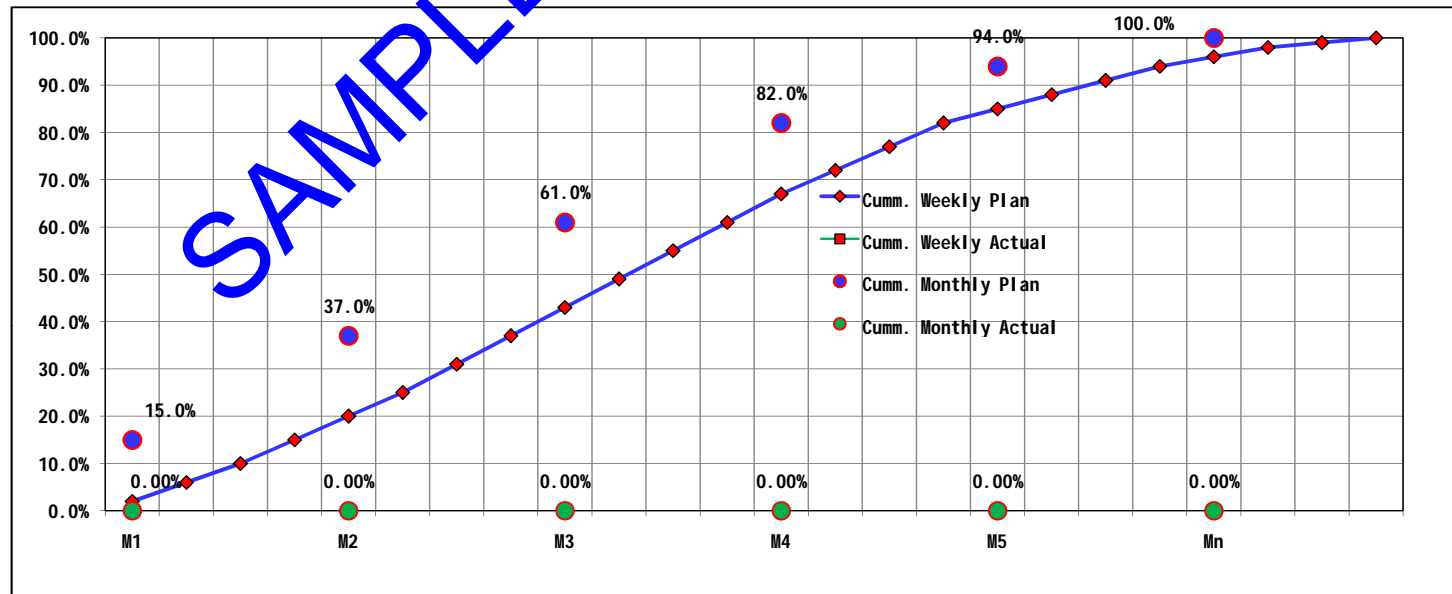
**PROJECT STATUS AS OF** .....

ANNEXURE NO.	DESCRIPTION
ANNEXURE-1	OVERALL PROGRESS SUMMARY
ANNEXURE-2	ENGINEERING STATUS
ANNEXURE-3	PROCUREMENT STATUS
ANNEXURE-4	CONSTRUCTION PROGRESS STATUS

CLIENT	HINDUSTAN URVARAK RASAYAN LIMITED (HURL)	STATUS AS OF:	
CONSULTANT	PROJECTS & DEVELOPMENT INDIA LIMITED (PDIL)		
CONTRACTOR			
PROJECT DETAILS:			
LOI Ref.			
PROJECT ZERO DATE			
SCHEDULE COMPLETION DATE			

## DETAILED OVERALL PROGRESS REPORT

Sr No	Description	WTG	M <sub>1</sub>				M <sub>2</sub>				M <sub>3</sub>				M <sub>4</sub>				M <sub>5</sub>				M <sub>n</sub>			
			W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	W14	W15	W16	W17	W18	W19	W20	Wn1	Wn2	Wn3	Wn
1	Engineering	Plan																								
		Actual																								
2	Procurement	Plan																								
		Actual																								
3	Construction	Plan																								
		Actual																								
4	Commissioning (As per System / Stream wise)	Plan																								
		Actual																								
5	TOTAL PROJECT PROGRESS %	Weekly Plan	2.0%	4.0%	4.0%	5.0%	5.0%	5.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	6.0%	5.0%	5.0%	5.0%	3.0%	3.0%	3.0%	3.0%	2.0%	2.0%	1.0%	1.0%
		Weekly Actual																								
		Cumm. Weekly Plan	2.0%	6.0%	10.0%	15.0%	20.0%	25.0%	31.0%	37.0%	43.0%	49.0%	55.0%	61.0%	67.0%	72.0%	77.0%	82.0%	85.0%	88.0%	91.0%	94.0%	96.0%	98.0%	99.0%	100.0%
		Cumm. Weekly Actual																								
		Cumm. Monthly Plan	15.0%				37.0%				61.0%				82.0%				94.0%				100.0%			
		Cumm. Monthly Actual	0.00%				0.00%				0.00%				0.00%				0.00%				0.00%			



CLIENT  
CONSULTANT  
CONTRACTOR  
PROJECT DETAILS:  
LOI Ref.  
PROJECT ZERO DATE  
SCHEDULE COMPLETION DATE

HINDUSTAN URVARAK RASAYAN LIMITED (HURL)  
PROJECTS & DEVELOPMENT INDIA LIMITED (PDIL)

STATUS AS OF:

ANNEXURE NO. 2

**ENGINEERING PROGRESS REPORT FOR .....**

ACTIVITY HEAD	S. no.	Description	Documents No	WTG <sup>(1)</sup>	Progress %	1ST SUBMISSION				2ND SUBMISSION				3RD SUBMISSION				Remarks
						Schedule Date	Actual Date	Approval / Comments date	Approval Code	Schedule Date	Actual Date	Approval / Comments date	Approval Code	Schedule Date	Actual Date	Approval / Comments date	Approval Code	
ENGINEERING	1	Document 1		5.00%														
	2	Document 2		5.00%														
	3	Document 3		5.00%														
	4	Document 4		5.00%														
	5	Document 5		5.00%														
	6	Document 6		5.00%														
	7	Document 7		5.00%														
	8	Document 8		5.00%														
	9	Document 9		5.00%														
	10	Document 10		5.00%														
	11	Document 11		5.00%														
	12	Document 12		5.00%														
	13	Document 13		5.00%														
	14	Document 14		5.00%														
	15	Document 15		5.00%														
	16	Document 16		5.00%														
	17	Document 17		5.00%														
	18	Document 18		5.00%														
	19	Document 19		5.00%														
	20	Document 20		5.00%														
ENGINEERING PROGRESS %				100.00%	0.00%													

(1) Weightages to be assigned as per volume of work

CLIENT  
CONSULTANT  
CONTRACTOR  
PROJECT DETAILS:  
LOI Ref.  
PROJECT ZERO DATE  
SCHEDULE COMPLETION DATE

HINDUSTAN URAVARAK RASAYAN LIMITED (HURL)  
PROJECTS & DEVELOPMENT INDIA LIMITED (PDIL)

STATUS AS OF:  
  
ANNEXURE NO. 3

PROCUREMENT PROGRESS REPORT FOR .....

ACTIVITY HEAD	S. no.	DESCRIPTION	ITEM NO / ENQUIRY NO	DELIVERY SCHEDULE	LOI NO. & Date	VENDOR NAME	MFG. LOCATION	WTG <sup>(2)</sup>	ACTUAL PROGRESS %	ORDERING 10%		INSPECTION 50%		DISPATCHED 80%		RECEIPT AT SITE 100%		REMARKS
										SCH	ACTUAL	SCH	ACTUAL	SCH	ACTUAL	SCH	ACTUAL	
PROCUREMENT	1	Item1																
PROCUREMENT	2	Item2																
PROCUREMENT	3	Item3																
PROCUREMENT	4	Item4																
PROCUREMENT	5	Item5																
PROCUREMENT	6	Item6																
PROCUREMENT	7	Item7																
PROCUREMENT	8	Item8																
PROCUREMENT	9	Item9																
PROCUREMENT	10	Item10																
PROCUREMENT	11	Item11																
PROCUREMENT	12	Item12																
PROCUREMENT	13	Item13																
PROCUREMENT	14	Item14																
PROCUREMENT	15	Item15																
PROCUREMENT	16	Item16																
PROCUREMENT	17	Item17																
PROCUREMENT	18	Item18																
PROCUREMENT	19	Item19																
PROCUREMENT	20	Item20																
PROCUREMENT PROGRESS %								100%										

(2) Weightages to be assigned as per Cost of Items

**HINDUSTAN URAVARAK RASAYAN LIMITED (HURL)**  
**PROJECTS & DEVELOPMENT INDIA LIMITED (PDIL)**

PROGRESS DATE:  
REPORT DATE:

**HOLIDAY INFORMATION:**

SKILLED :  
UNSKILLED :  
STAFF :  
**TOTAL MANOPOWER :**

## CONSTRUCTION DAILY PROGRESS REPORT FOR

AS OF DD-MM-YYYY

[illegible]

**Weightages to be assigned as per Cost & Effort**

# PART-II

## TECHNICAL



SECTION-1.0  
SCOPE OF WORK



 पी डी आई एल <b>PDIL</b>	PROJECT & DEVELOPMENT INDIA LIMITED	EM250-G201-0201	1	 हि.प्र.उ.म.स.
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**SCOPE OF PILLING WORKS**  
**FOR**  
**BORED CAST-IN-SITU CONCRETE VERTICAL PILES.**  
**FOR**  
**NON-LSTK OSBL OF AMMONIA-UREA FERTILIZER**  
**AT**  
**HURL, GORAKHPUR**

1	05.06.18	05.06.18	ISSUEED FOR TENDER	VP	SA	UPT
0	03.04.18	03.04.18	ISSUEED FOR TENDER	VP	SA	UPT
P	15.03.18	15.03.18	ISSUEED FOR REVIEW	VP	SA	UPT
REV	DATE	EFF.DATE	PURPOSE	PREPD	REVWD	APPD

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## 1.0 INTRODUCTION

Government of India has formed a joint venture company of M/s NTPC Ltd., M/s Coal India Limited (CIL), M/s Indian Oil Corporation & FCIL by name M/s Hindustan Urvarak & Rasayan Ltd. (HURL) hereinafter also referred to as "OWNER", for setting up a brown field Ammonia Urea Fertilizer Complex along with its associated offsite & utility facilities at existing fertilizer complex of FCIL, Gorakhpur, in the State of Uttar Pradesh.

## 2.0 SITE INFORMATION

The site for the proposed plant is located at Fertilizer Plant of HURL Gorakhpur and is well connected by road & rail.

## 3.0 SOIL INFORMATION



Geo-technical investigation report is attached as annexure.

## 4.0 SCOPE OF WORKS

The descriptions given below are only to give a preliminary idea about the scope of works and they do not limit the scope to these descriptions only. Hence, all other parts of the tender document like Schedule of Rates, technical specifications, drawings & general notes etc. shall be considered for actual scope of work.

Following are the Plants/Area where piling works are envisaged

- I. Administrative Building
- II. Technical Building
- III. Canteen
- IV. Central Lab & First Aid
- V. Urea Silo
- VI. Bagging Plant
- VII. Wagon Loading Platform
- VIII. Conveyor gantry and transfer tower
- IX. OSBL Pipe Rack
- X. Weigh Bridge
- XI. Fire Water Pump House
- XII. Warehouse & Central Workshop
- XIII. Utility Sub-Station
- XIV. Effluent Treatment Plant

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- XV. DM Plant
- XVI. Instrument Air
- XVII. Inert Gas

The Installation of piles, their testing (Vertical Compression, Lateral, Uplift / Pullout and Integrity test) as per the Technical Specifications / I.S. code, good for construction drawing and SOR are in the scope of contractor.


**The scope of work shall also include any other item of work required to complete the work in all respects as per the specifications, drawings and instructions of Engineer-in-charge whether specifically mentioned or not in the tender documents.**

SECTION-2.0  
TECHNICAL SPECIFICATIONS

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**FOR**  
**BORED CAST-IN-SITU CONCRETE VERTICAL PILES.**  
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## 1.0 SCOPE

- 1.1 This specifications cover the installation of bored cast-in-situ reinforced concrete vertical piles.
- 1.2 Installation of bored cast-in-situ concrete vertical piles shall also conform to IS: 2911 (Part-1/Section-2).
- 1.3 This specifications also covers the technical requirements for load test (Initial and Routine tests) on reinforced concrete single vertical piles of to assess their vertical, horizontal and pull-out load carrying capacity.
- 1.4 Load tests on piles shall conform to IS: 2911 (Part-4).

## 2.0 GENERAL REQUIREMENTS

- 2.1 The work shall include mobilization of all necessary equipments, providing necessary engineering supervision through qualified and technical personnel, skilled and unskilled labour, etc. as required to carry out the complete piling work, load tests and submission of records / reports as per schedule.
- 2.2 The Contractor shall guarantee the "Safe Load" capacity of piles for various modes i.e., vertical, lateral and pull-out loads for piles installed by him.
- 2.3 Consequent upon award of work and prior to installation of job piles, the Contractor shall
  - a) submit structural design of pile in terms of the parameters viz. allowable capacity, length, diameter, termination criteria, etc. for Owner's/ Consultant's approval.
  - b) On owner's/Consultant's approval on pile design, install test piles and carry out all the initial (vertical, lateral and pull-out) load test of piles.
  - c) Submit test results (pile capacities) and the record of initial load tests to owner/consultant.
  - d) Seek permission from owner/consultant for installation of job piles
- 2.4 The Contractor shall make his own arrangements for locating the co-ordinates and position of piles shown in approved drawings and for determining the Reduced Levels (R.L) of these locations with respect to the single bench mark indicated by the Engineer-in-Charge. Two established reference lines in mutually perpendicular direction shall be indicated to the Contractor. The Contractor shall provide at site all the required survey instruments to the satisfaction of the Engineer-in-Charge so that the work can be carried accurately according to specifications and drawings.
- 2.5 In case of working piles, if the pile rejected due to any reasons, attributable to contractor the Contractor shall install additional piles at no extra cost to the Owner.
- 2.6 It is essential that all equipment and instruments are properly calibrated both at commencement and immediately after the tests so that they represent true values.



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Certificates to this effect from an approved institution shall be furnished to the Engineer-in-Charge. If the Engineer-in-Charge so desires the contractor shall arrange for having the instruments tested at an approved laboratory at his own cost and the test report shall be submitted to the Engineer-in-Charge. If the Engineer-in-Charge desires to witness such tests Contractor shall arrange to conduct the test in his presence.

- 2.7 The complete jacking system including the hydraulic jack, hydraulic pump and pressure gauge shall be calibrated as unit. The complete unit shall be calibrated over its complete range of travel for increasing and decreasing loads same as that of test loads. The calibration certificate shall be submitted to the Engineer-in-Charge.
- 2.8 The reaction load to be made available for the test shall be at least 25 % greater than the maximum jacking force. The reaction system as relevant shall be designed for the total reaction load. All reaction loads shall be stable and balanced during all operations of testing. During testing, stability of reaction system shall be ensured.
- 2.9 The load applied on the pile shall be measured by a calibrated pressure gauge mounted on the jack with a least count of not more than 10 % of the safe load.
- 2.10 The displacement of pile( In vertical, horizontal and uplift) shall be measured using dial gauges having a least count 0.01 mm.
- 2.11 Load test shall be conducted at pile cut off level (COL). If the water table is above the COL the test pit shall be kept dry through out the test period by suitable dewatering methods without any extra cost to owner.
- 2.12 In case of initial vertical load test where the water table level is higher than the COL Contractor may use reaction piles for testing purposes in each case. Engineer-in-Charge may at his discretion decide to rise the COL above water table.
- 2.13 Full details of the equipment proposed to be used and the test setup with detail sketches shall be submitted to the Engineer-in-Charge, before making arrangement to carry out the tests, for his approval. Approval of the Engineer shall also be obtained after the test set up is complete prior to commencement of loading.
- 2.14 All operations in connection with pile load test shall be carried out in a safe manner so as to prevent the exposure of people to hazard.
- 2.15 If any test has to be discontinued, which in the opinion of the Engineer-in-Charge interferes with the load test results, and he decides to abandon the test, the Contractor shall install another pile for the purpose and repeat the test after correcting the fault and the cost of all such operations, including the cost of test pile, shall be at the Contractor's expense.

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- 2.16 After completion of piling work contractor shall submit four copies of the following documents for Owners record and future reference:
- Initial load test data for all tests done along with the pile data and the analysis of the initial test results.
  - Pile data along with concrete mix design detail (note pile data shall contain details as per requirement of Annexure- A).
  - Routine load test data for all tests done.
  - A full record giving all details of test in the Performa shown in Annexure- B shall be submitted in triplicate to the engineer immediately on completion of each test. The record shall also include the plots of:
    - Load VS. Settlement
    - Time VS. Settlement (for each increment of load)
    - Characteristic of the piles and the interpretation of the pile load test curve as per the criteria for safe loads as mentioned in the specification.
- 2.17 Before commencement of the work, the Contractor shall submit Quality Assurance Plan to the Owner/Consultant for their approval.

### 3.0 CODES AND STANDARDS

3.1 All standards and codes of practice referred to herein shall be the latest editions including all applicable Amendments issued.

3.2 All works shall be carried out as per the relevant Indian Standard Codes. In case of conflict between the specification and the IS codes referred to herein, the former shall prevail. Some of the applicable Indian Standards and codes are referred to here below:

IS: 432(Part I&II)	Specification for mild steel and medium tensile steel bars and hard drawn steel wire for concrete reinforcement.
IS: 456	Code of Practice for plain and reinforced concrete.
IS: 1786	Code of practice for twisted steel high strength deformed bars for concrete reinforcement.
IS: 2911(Pr-I/Sec-2)	Code of practice for design and construction of pile foundations- Bored cast-in-situ concrete pile.
IS: 2911(Part-4)	Code of practice for design and construction of pile foundation Load test on piles.
IS: 5121	Safety code for piling and other deep foundations.
IS: 10262	Recommended guidelines for concrete mix design.

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## 4.0 MATERIALS

### 4.1 General

All materials viz cement, steel, aggregates, water etc., which are to be used for pile construction shall conform relevant IS codes specifications for properties, storage and handling of common building materials. However, aggregates more than 20 mm shall not be used.

## 5.0 CONCRETE

5.1 Enclosed Technical Specifications for cast-in-situ concrete and allied works along with IS:2911 Part I/Sec.2 - Code of Practice for Design and construction of pile foundations (Bored cast-in-situ concrete pile) shall be applicable to concrete works for piles. Use of plasticizer to control the water cement ratio shall be permitted on specific approval from Engineer-in-Charge.

### 5.2 Grade and Minimum Cement Content

Design Mix of Concrete grade M-30 shall be used with Ordinary Portland Cement (OPC), Portland Slag Cement (PSC) or Portland Pozzolona Cement (PPC) only. The cement content shall be as per mix design conforming to IS: 10262. However, the minimum cement content shall be 400 Kg, per cubic metre of concrete. In case of piles subsequently exposed to free water or in case of piles where concreting is done under water or drilling mud using methods other than the tremie, 10 percent extra cement over that required for the design grade of concrete at the specified slump shall be used subject to minimum quantities of cement specified above.

5.3 For the concrete, water and aggregates specifications laid down in IS: 456 shall be followed in general. Natural rounded shingle of appropriate size may also be used as coarse aggregate. It helps to give high slump with less water cement ratio.

### 5.4 Slump of Concrete

The slump of concrete shall vary between 150 to 180 mm.

5.5 Cement: Any of the following cements may be used as required

Type of Cement	Reinforced concrete	
	Minimum cement content (kg/m <sup>3</sup> )	Maximum water-cement ratio
43 Grade-OPC	400	0.50
PSC	400	0.50
PPC	400	0.50

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## 6.0 REINFORCEMENT

- 6.1 Longitudinal reinforcement in pile shall be high strength deformed steel bars with characteristics strength of 500 N/Sq.mm. conforming to IS: 1786 unless specified otherwise. Lateral reinforcement in pile shall be of mild steel conforming to IS: 432 (Part-1) or HYSD steel bar conforming to IS: 1786.
- 6.2 The minimum area of longitudinal reinforcements shall be 0.4 percent of the sectional area calculated on the basis of outside area of casing or the pile shaft where casing is not used, whichever is more. The minimum number of longitudinal reinforcement shall be six(6) and its minimum diameter shall be 12 mm. The stipulated minimum reinforcement shall be provided for the full length of pile. Adequate reinforcement shall be provided to take full uplift loads.
- 6.3 The longitudinal reinforcement shall project up to development length as per requirements laid in IS: 456 in terms of multiple of bar diameter above cut off level unless otherwise indicated.
- 6.4 The minimum diameter of the links or spirals bar shall be 6 mm and the spacing of the links or spiral shall not be less than 150 mm. The laterals shall be tied to the longitudinal reinforcement to maintain its shape and spacing.
- 6.5 Reinforcement cage shall be sufficiently rigid to withstand handling and installation without any deformation and damage. As far as possible number of joints (laps) in longitudinal reinforcement shall be minimum. In case the reinforcement cage is made up of more than one segment these shall preferably be assembled before lowering into casing tube/pilebore by providing necessary laps as per IS: 456.
- 6.6 Laps shall be staggered as far as practicable and not more than 50% bars shall be lapped at a particular section. Lap joints shall be staggered by at least 1.3 times the lapped length (Centre to Centre).
- 6.7 Proper cover and central placement of the reinforcement cage in the pile bore shall be ensured by use of suitable concrete spacers or rollers cast specifically for the purpose.
- 6.8 Minimum clear cover to all main reinforcements in piles shall not be less than 50 mm unless otherwise specified.

## 7.0 PILE INSTALLATION

Installation of piles shall be carried out as per pile layout drawings. Installation criteria and the direction of the Engineer-in-Charge.

### 7.1 EQUIPMENT AND ACCESSORIES

The equipment accessories for installation of bored cast-in-situ piles shall be selected giving due consideration to the sub-soil conditions, ground water

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conditions and the method of casting etc. These shall be of standard type and shall have the approval of the Engineer-in-Charge.

List of details of equipment and accessories proposed to be used for the job shall be submitted along with the bid.

The capacity of the rig shall be adequate so as to reach the specified founding level.

## 7.2 CONTROL OF POSITION AND ALIGNMENT

Piles shall be installed as accurately vertical as possible. The permissible limits for deviation with respect to position and alignment (inclination) shall conform to IS: 2911 (Part-1/Sec.-2), which is reproduced below for ready reference.

- The maximum deviation of vertical piles shall not exceed 1.5 per cent in alignment.
- Piles shall not deviate more than 75 mm or D/10 whichever is more from their designed position at cut off level.

In case of piles deviating beyond these limits, the piles shall be replaced or supplemented by one or more additional piles without any extra cost to the Owner.

## 7.3 BORING

- Boring operations shall be done by rotary or percussion type drilling rigs using direct, reverse mud circulation (DMC or RMC) methods or grab method. In soft clays and loose sands, bailer method, if used, shall be used with caution to avoid the effect of suction. Boring operations by any of the above methods shall be done using drilling mud.
- The Contractor shall satisfy himself about the suitability of the method to be adopted for site. If DMC or RMC is used bentonite slurry shall be pumped through drill rods by means of high pressure pumps. The cutting tool shall have suitable ports for the bentonite slurry to flow out at high pressure. If on mobilization, the Contractor fails to make a proper bore for any reason, the Contractor has to switchover to other boring methods as approved by the Engineer-in-Charge at no extra cost to the Owner.
- Working level shall be above the cut off level. After the initial boring of about 1.0 to 2.0 m temporary guide casing shall be lowered in the pile bore. The diameter of guide casing shall be of such diameter to give the necessary finished diameter of concrete pile. The centre line of guide casing shall be checked before continuing further boring. Guide casing shall be minimum 1.0 m length. Additional length of casing may be used depending on the condition of strata, ground water level etc.
- Use of drilling mud (bentonite suspension/slurry) for stabilizing the sides of the pile bore is necessary wherever is likely to collapse in the pile bore. Drilling mud to be used shall meet the following requirement.

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- V. Liquid limit of bentonite when tested in accordance with IS: 2720(Part-V) shall be more than 300 percent and less than 450 percent.
- VI. Sand content of the bentonite powder shall not be greater than 7 percent.
- VII. Bentonite solution should be made by mixing it with fresh water using pump for circulation. The density of the freshly prepared bentonite suspension shall be between 1.034 and 1.10 gm/ml depending upon the pile dimensions and type of soil in which the pile is to be cast. However the density of bentonite suspension after mixing with deleterious materials in the pile bore may be up to 1.25 gm/ml.
- VIII. The Marsh viscosity when tested by a Marsh cone shall be between 30 to 60 seconds.
- IX. The differential free swell shall be more than 540 percent.
- X. The pH value of the bentonite suspension shall be between 9 and 11.5
- XI. The bentonite slurry and the cuttings, which are carried to the surface by the rising flow of slurry shall pass through setting tanks of adequate size to remove the sand and spoils from the slurry, before the slurry is recirculated to the boring. The bentonite slurry mixing and recirculation plant shall be suitably designed and installed.
- XII. The bentonite slurry shall be maintained at 1.5 m above the ground water level during boring operations and till the pile is concreted. When DMC and RMC method is used the bentonite slurry shall be under constant circulation till start of concreting.
- XIII. The size of cutting tools shall not be less than the diameter of the pile by more than 75 mm. However, the pile bore shall be of the specified size.
- XIV. Socketing shall be done as per Geo-technical Report/ pile design requirement point of view wherever required.
- 7.4 CHISELING
- a. Chiseling may be restored to with the permission of the Engineer-in-Charge below the socketing horizon. The chiseling tool or bit shall be of adequate size and weight so as to reach the desire depth.
- 7.5 LENGTH OF PILE:-
- The length of pile shall be as per recommendations of soil investigation report.. In case, hard soil / rock is encountered and chiseling is to be retorted to, the criteria for termination and socketing shall be as per recommendations of soil report/ IS code.
- 7.6 CLEANING OF PILE BORE
- I. After completion of the pilebore up to the required depth, the bottom of the pile bore shall be thoroughly cleaned. Cleaning shall ensure that the pile bore is



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completely free from sludge /bored material, debris of rock/boulder etc. Necessary checks shall be made for pile bore as described in the subsequent clauses to confirm the thorough cleaning of the pile bore.



- II. Pile bore spoil along with used drilling mud shall be disposed off from site as directed by the Engineer-in-Charge.

#### 7.7 ADJACENT STRUCTURES

When working near existing structures care shall be taken to avoid any damage to such structures.

#### 7.8 CONCRETING

- I. Concreting shall not be done until the Engineer-in-Charge is satisfied that the pile termination level is reached and the pile bore is cleaned properly and thoroughly.
- II. The time interval between the completion of boring and placing of concrete shall not exceed 6 hrs. In case the time interval exceeds 6 hrs. the pilebore shall be abandoned. However, the Engineer may allow concreting provided the Contractor extends the pile bore by 0.5 m beyond the proposed depth, and clean the pilebore. The entire cost of all operation and materials for this extra length shall be borne by the Contractor.
- III. Pile bore bottom shall be thoroughly cleaned to make it free from sludge or any foreign matter before and after placing the reinforcement cage.
- IV. Proper placement of the reinforcement cage to its full length shall be ensured before concreting.
- V. Concreting shall be done by tremie method. The operation of tremie concreting shall be governed by IS: 2911(Part-1/Sec.2). Drilling mud shall be maintained sufficiently above the ground water level.
- VI. Concreting operations shall not proceed if the contaminated drilling mud at the bottom of the pile bore posses density more than 1.25 T/Cu.m. or sand content more than 7%. The drilling mud sample shall be collected from the bottom of pilebore as mentioned in subsequent clause.
- VII. Consistency of the drilling mud suspension shall be controlled throughout concreting operations in order to keep the bore stabilized as well as to prevent concrete getting mixed up with the thicker suspension of the mud.
- VIII. It shall be ensured that volume of concrete poured is at least equal to the theoretically computed volume of pile shaft being cast.
- IX. The temporary guide casing shall be withdrawn cautiously after concreting is done up to the required level. While withdrawing the casing concrete shall not be disturbed.

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## 7.9 CUT OFF LEVEL (COL)

- I. Cut off level of piles shall be as indicated in drawings released for construction or as indicated by the Engineer-in-Charge.
- II. The top of concrete in pile shall be brought above the COL to remove all laitance and weak concrete and to ensure good concrete at COL for proper embedment in to pile cap.
- III. Concrete shall be cast upto Ground level, to permit overflow of concrete for visual inspection.
- IV. In the circumstance where COL is below ground water level, the need to maintain a pressure on the unset concrete equal to or greater than water pressure shall be observed and accordingly length of extra concrete above COL shall be determined by the Contractor with prior approval of Engineer-in-Charge.

## 7.10 SEQUENCE OF PILING

- I. Each pile shall be identified with a reference number.
- II. The convenience of installation may be taken into account while scheduling the sequence of piling in a group. This scheduling shall avoid piles being bored close to other recently constructed piles.

## 7.11 REJECTION AND REPLACEMENT OF DEFECTIVE PILES

The Engineer-in-Charge reserves the right to reject any pile which in his opinion is defective on account of load capacity structural integrity, position, alignment, concrete quality etc. Piles that are defective shall be pulled out or left in place as judged convenient by the Engineer-in-Charge, without affecting the performance of adjacent piles. The Contractor shall install additional piles to substitute the defective piles as per the directions of the Engineer-in-Charge, at no extra cost to the Owner.

## 7.12 RECORDING OF PILING DATA

The Contractor shall record all the information during installation of piles. Typical data sheet for recording pile data shall be as indicated in ANNEXURE- A enclosed and the Pile Load Test Data shall also be recorded as per the details indicated in Annexure- B enclosed. On completion of each pile installation, pile record in triplicate shall be submitted to Engineer-in-Charge within two days of completion of concreting of the pile.

## 8.0 SAMPLING, TESTING, AND QUALITY ASSURANCE

- 8.1 Facilities required for sampling and testing materials, concrete, etc. in field and in laboratories shall be provided by the contractor. The contractor shall carry out all sampling and testing in accordance with the relevant Indian Standards and this specification. Where no specific testing procedure is mentioned the test should be



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carried out as per the prevalent accepted engineering practice to the direction of Engineer-in-Charge. Test shall be done in presence of engineer of the engineer or his authorized representative. In case the Engineer requires additional tests, the contractor shall arrange to get these tests done and submit to the Engineer the test results in triplicate within three days after completion of any test.

## 8.2 RECORDS

The contractor shall maintain records of all inspection and testing, which shall be made available to the Engineer. The Engineer at his discretion may waive some of the stipulations for small and unimportant concreting operations and other works.

## 8.3 UNSUITABLE MATERIALS



Materials found unsuitable for acceptance shall be removed and replaced by the contractor. The work shall be redone as per specification requirements and to the satisfaction of the Engineer at no extra cost to the Owner.

## 8.4 QUALITY ASSURANCE PROGRAM

- I. The Contractor shall submit and finalize a detailed Field Quality Assurance program within 30 days from the date of award of contract, according to the requirements of this specification. This shall include setting up of a testing laboratory, arrangement of testing apparatus/equipment, deployment of qualified/experienced manpower, preparation of field quality plan, etc. On finalized field quality plan, the Owner shall identify, customer hold points, beyond which the work shall not proceed without written approval from the Engineer. The testing apparatus/equipment installed in the field laboratory shall be calibrated / corrected by the qualified persons as frequently as possible to give accurate testing results.
- II. Frequency of sampling and testing, etc. and acceptance Criteria are given in Table- 1. The testing shall be done at field laboratory or any other laboratory approved by the Engineer-in-Charge. However, the testing frequencies set forth are the desirable minimum and the Engineer shall have the full authority to call for tests as frequently as he may deem necessary to satisfy himself that the materials and works comply with the appropriate specifications. The materials shall be tested to all the specified requirements as per relevant IS codes before acceptance at manufacturers premises or at independent Government laboratory. Tests indicated in the Table- 1 are for cross checking at site the conformity of the materials to some of the specifications.

## 8.5 TESTING OF CONCRETE

- I. Concrete and other materials shall be tested for quality and strength and other properties as per relevant IS codes.
- II. One sample consisting of six test cubes shall be made from the concrete used in each test pile, three to be tested after 7 days and 3 after 28 days.

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III. For working piles, minimum one sample consisting of six test cubes shall be made from the concrete for the first ten piles, three to be tested after 7 days and three after 28 days. Thereafter minimum one sample consisting of there test cubes for every 25 piles shall be tested for the 28 day cube strength.

IV. In preparation of test cubes/specimens vibrators shall not be used.

V. Concrete shall be tested for slump at every one hour interval.

VI. Other materials like aggregates, reinforcement, etc., shall be tested as per relevant IS codes.

#### 8.6 TESTING FOR POSITION AND ALIGNMENT

I. Each pile shall be checked for its position with respect to specified location. Each pile bore shall be checked for its alignment.

II. Permissible limits for deviation shall be as specified elsewhere in this section of specification.

#### 8.7 PROPERTIES OF DRILLING MUD

I. Properties of drilling mud shall be checked as per the requirements specified in clause no. 7.3 (IV) of this specification. Prior to use in piling work and there after minimum once in a week or as found necessary by the Engineer one sample consisting of 3 specimens shall be tested.

II. Density and sand content of the drilling mud shall be checked at least in each pile for first 10- piles before concreting. In case of satisfactory results the frequency of sampling shall not be less than one in 25 piles.

#### 8.8 CHECK FOR PILE BORE

I. On completion of boring and cleaning the bottom of each pile bore shall be checked by the methods as approved by the Engineer-in-Charge to ensure that it is free from pile bore spoil/debris and any other loose material, before concreting shall be done only after the approval of the Engineer-in-Charge.

II. For sampling of drilling mud from the pile bore the following method or any other suitable method shall be adopted.

III. A solid cone shall be lowered by a string to the bottom of pile bore. A sampler tube closed at top with a central hole (hollow cylinder) is lowered over the cone, then a top cover shall be lowered over the cylinder. Care shall be taken for proper fittings of assembly to minimize the leakage while lifting the cone assembly to the ground surface. The slurry collected in the sampler tube shall be tested for density and sand content.

### 9.0 LOAD TEST ON PILES

#### 9.1 TYPE OF TESTS

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- I. The Contractor shall carry out two categories of load tests i.e. Initial Load and Routine Load Tests in accordance with IS: 2911 (Part-4).
- II. Initial load test shall be conducted to assess the safe load carrying capacity of pile before start of installation of working piles. This shall include the following type of tests:
  - a. Cyclic compression load test to assess safe vertical load capacity.
  - b. Lateral load test to assess safe horizontal load capacity.
  - c. Tension load test to assess safe pull out load capacity.

The minimum number of Initial Load Test for each diameter of pile proposed shall be as per Schedule of Rate.
- III. Routine load tests of piles as per IS: 2911 (Part-4) shall be conducted to verify the load capacity of working piles. This shall include the following types:
  - a. Direct Compression load test for vertical load capacity.
  - b. Lateral load test for horizontal load capacity.
- IV. The minimum number of routine load test for each diameter and type shall be 1.5 percent of the total number of working piles. The number of tests may be increased up to 2 percent as decided by the Engineer -in-Charge in a particular case depending upon nature, type of structure and strata condition.
- V. Integrity test : integrity test for all working pile shall be conducted by the contractor

## 9.2 TEST PILE



- I. The test piles for routine load test shall be identified by the Engineer-in-Charge.
- II. A minimum time period of four weeks shall be allowed between the time of pile casting and testing Test pile head shall be prepared for testing purposes only one week after casting the pile.
- III. The test piles shall be cut off at the proper level and provided with a proper cap so as to provide a plane bearing surface for the test plate and for proper arrangements for seating of the jack and dial gauges.

## 9.3 VERTICAL LOAD TEST

### I. EQUIPMENT AND TEST SET UP

A steel plate of sufficient thickness not less than 50 mm shall be centred on the pile head to prevent it from crushing under applied load. The size of the plate shall neither be less than the pile size nor less than the area covered by the base of the hydraulic jack(s).

The datum bars shall be supported on immovable supports preferably of concrete pillars or steel sections placed sufficiently far away from the test pile. The distance

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shall not be less than 3 times the diameter of test pile and in no case less than 2 metres from the edge of test pile. These supports shall be placed at a sufficient depth below ground to be unaffected by ground movements.

## II. LOADING SYSTEM

The test load on the pile shall be applied in one of the following ways as approved by the Engineer-in-Charge.

- By means of hydraulic jack(s) which obtain reaction from kentledge heavier than the required test load. While using this method care shall be taken to ensure that the centre of gravity of kentledge heavier than the required test load. While using this method care shall be taken to ensure that the centre of gravity of kentledge is one the axis of the pile. The load applied by the jack(s) shall also be coaxial with the pile. The nearest edge of the crib supporting the kentledge stack shall not be closer than 1.5 metre to the edge of the test pile.
- By means of hydraulic jack(s) which obtained reaction from anchor piles or/and suitable loading frame. While using this method all anchor piles shall be at a centre to centre distance of at least three times the test pile shaft diameter from the test pile and in no case less than 2 metres. Care shall be exercised to ensure that the datum bar supports are not affected by heaving up of the soil.
- By means of hydraulic jack(s) which obtain reaction from suitable rock anchors. When this method is adopted, the anchor transferring the load to the ground shall not be closer than two times the test pile shaft diameter to the test pile and in no case less than 1.5 m.
- By means of combination of kentledge, anchor pile, rock anchors.

## III. MEASURING SYSTEM

Settlement of the pile shall be recorded by four dial gauges placed at diametrically opposite locations and suspended from the datum bar around the pile.



## IV. TEST PROCEDURE

The test shall be carried out by the Direct Loading Method in successive increments for routine load test and by the Cyclic Loading Method for initial load test as detailed below and as directed by the Engineer-in-Charge

## V. DIRECT LOADING METHOD

The test shall be carried out as per the procedure outlined below:

- The load shall be applied to the pile top in increments (steps) of about 20% of the rated capacity of the pile or as directed by Engineer. Each increment of load shall be applied as smoothly and expeditiously as possible. Settlement reading shall be taken before and immediately after the application of next increment and at 15, 30 minutes and thereafter at every half hour until application of the next load increment.

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- b. Each stage of loading shall be maintained till the rate of movement of the pile top is not more than 0.2 mm/hr. or until two hours have elapsed whichever is earlier.
- c. The rate of movement of pile shall not be permitted to be extrapolated from period of test less than one hour.
- d. Loading on pile shall be continued till one of the following takes place:
  - i. In case of initial load test, applied load reaches three times the assumed safe load or the settlement of pile exceeds a value of 10 per cent of bulb diameter incase of under-reamed pile.
  - ii. In case of Routine load test, applied load reaches one and half time the safe load or the maximum settlement of test loading in position attains 12 mm.
- e. Where yielding of the soil does not occur, the full test load shall be maintained on the pile head for a minimum period of 24 hrs. after the last increment of load and settlement shall be recorded at 6 hours interval during this period.
- f. Unloading shall be carried out in the same steps as loading. A minimum period of 30 minutes shall be allowed to elapse between two successive stages of load decrement. The final rebound shall be recorded 6 hours after the entire test load has been removed.

#### VI. CYCLIC LOADING TEST

The test shall be carried out to find out separately skin friction and point bearing capacity of single pile. However, this test is not applicable for under reamed piles. The test procedure shall be as given below:

- a. In general this test shall be conducted on similar lines as mentioned in Direct Loading Method. In addition, alternate loading and unloading up to zero load shall be done in steps at each stage of loading. The load increment/decrement for each steps shall be 20% of the rated capacity. The readings of all the dial gauges shall be recorded at the end of each step and the total and net settlement for each stage shall be calculated.
- b. For each stage, the loading of each steps shall be maintained for 15 minutes before reaching the maximum load. The maximum load for each stage shall be maintained for one hour. The full test load shall be maintained on the pile head for 24 hours.
- c. Each step of unloading shall be maintained for 15 minutes and the subsequent rebound in the pile shall be measured accurately.
- d. A period of 15 minutes shall be allowed to pass between the successive unloading and loading operations.
- e. To find out separately skin friction and point bearing capacity of pile the procedure as given in Appendix- A of IS: 2911(Part-4) shall be followed.

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## VII. ASSESSMENT OF SAFE LOAD

The safe vertical load on single pile from the load test shall be the least of following values:

- 2/3 of the load at which the total settlement attains a value of 12 mm unless otherwise specified in tender documents.
- 50% of the final load at which the total settlement equals 10 percent of the pile diameter in case of uniform diameter piles.

## VIII. HORIZONTAL LOAD TEST

### IX. EQUIPMENT AND TEST SET UP

- The test plate shall be set in high strength grout to provide full bearing against the projected areas of the pile. The size of the test plate shall be adequate to accommodate the spherical bearing and transfer the load to the pile.
- Sufficient clearance shall be allowed between the test pile and the datum bar for the anticipated lateral movement of the pile when datum bar (for fixing the dial gauge) is located on the opposite side to the point of load application.

### X. LOADING SYSTEM

- Loading shall be applied by a hydraulic jack of adequate capacity equipped with spherical bearing at the top of ram and bearing plate at the bottom side, abutting the pile horizontally and reacting against a suitable system.
- The reaction may be provided by the wall of the excavated pit when the test is being conducted below ground level or by a neighboring pile, in which case thrust pieces shall be inserted on their end of the jack to make up the gap as approved by the Engineer.
- Load shall be applied on the pile at or approximately at cut of level (COL).

### XI. MEASURING SYSTEM

The deflection shall be measured at a point diametrically opposite to the point of load application. In case such a measurements is not possible, the deflection shall be recorded using at least 2 dial gauges kept at a spacing of 30 cm. at a suitable height and the displacement interpolated at load point from similar triangles.

Deflection of the pile at the level of load application shall be measured by dial gauge fixed to datum bar. The datum bar shall rest on immovable supports as described elsewhere in this specification.

### XII. TEST PROCEDURE

The test procedure shall be similar to that for vertical load test.

Loading on the pile shall be continued till one of the following takes place:

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- a. In case of Initial load test applied load reaches thrice the assumed safe lateral load capacity of deflection of pile at the loading point exceeds.
- b. In case of Routine load test, applied load reaches one and half times the assumed safe load capacity or a deflection at the loading point exceeds 5 mm.

### XIII. ASSESSMENT OF SAFE LOAD

The safe lateral load of single pile shall be the least of following:

- a. 50 % of the load for which the total deflection is 12 mm.
- b. Load corresponding to 5 mm total deflection.
- c. Load corresponding to any other specified displacement as per performance requirement.

Pile groups shall be tested under conditions as per actual use in the structure as far as possible.

However, for routine test (i) above is not applicable.

NOTE: The deflection of pile is at the cut off level of the pile.

### 9.4 PULL OUT TEST

#### I. EQUIPMENTS AND TEST SET UP

- a. Uplift force may be applied by means of hydraulic jack(s) using a suitable pullout set up as approved by the Engineer.

#### II. LOADING SYSTEM

- a. Load shall be applied along the longitudinal axis of the pile using an approved reaction system. Uplift forces on the pile may be applied directly to the test pile or through a lever system.
- b. The reaction may be provided by neighboring piles or blocks constructed for this purpose.
- c. The reaction supports/blocks/piles shall be at least 2.5 times the test pile diameter.

#### III. MEASURING SYSTEM



- a. Displacement of the pile shall be recorded using two dial gauges placed at diametrically opposite locations and suspended from the datum bar around the pile. Datum bar shall be provided with immovable supports as described elsewhere in this specification.

#### IV. TEST PROCEDURE

The test procedure shall be similar to that for vertical load test.

The loading on pile shall be continued till one of the following takes place.





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- a. The loading on pile top equals three times the estimated safe load.
  - b. The load- displacement curves shows a clear break (downward trend).
- V. **ASSESSMENT OF SAFE LOAD**
- The safe load of the pile shall be the least of the followings:
- a. Two third of the load at which the total displacement is 12 mm.
  - b. 50% of the load at which the load displacement curve shows a clear break (down work trend).

## 10.0 RECORDING OF DATA & PRESENTATION

- I. The pile test data essentially concerns three variables, namely, load, displacement and time. These are to be recorded sequentially for the tests under consideration and shall be recorded in a suitable tabular form along with the information about the pile as per Annexure-A & B and Table-1.
- II. The data may be suitably presented by curves drawn between the variables and safe loads shown on the graphs. Load displacement curve should be an assential part of presentation.



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## ANNEXURE - A

### PILE DATA

- |     |  | Reference No. | Location(Co-ordinates) |
|-----|--|---------------|------------------------|
| 1.  | _____Area.   |               |                        |
| 2.  | Sequence of Piling   |               |                        |
| 3.  | Pile diameter & Type   |               |                        |
| 4.  | Working Level (Platform level)   |               |                        |
| 5.  | Cut Off Level (COL)  |               |                        |
| 6.  | Actual Length Below COL  |               |                        |
| 7.  | Pile Termination Level   |               |                        |
| 8.  | Top Of Finished Concrete Level   |               |                        |
| 9.  | Date and Time of Start and Completion of Boring  |               |                        |
| 10. | Depth of Ground Water Table in the Vicinity  |               |                        |
| 11. | Type Of Soil at pile tip   |               |                        |
| 12. | Method of Boring Operation   |               |                        |
| 13. | Details of Drilling mud as used:   |               |                        |
|     | a. Freshly Supplied Mud, Liquid Limit, Sand Content, Density, Marsh Viscosity, Swelling Index, pH value. |               |                        |
|     | b. Contaminated Mud Density, Sand Content.   |               |                        |

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14. SPT (N) values in soil (from the nearest bore hole) UCS value in rock (from the nearest bore hole)

15. Chiseling, if any From..... M. To..... M.

16. Date and Time of Start and Completion of concreting.

17. Method of placing concrete.

18. Concrete Quantity:

Actual

Theoretical

19. Ref. Number of Test Cubes

20. Grade and Slump of concrete

21. Results of Test Cubes

22. Reinforcement Details:

Main Reinforcement

Stirrups: Type

No.:\_\_\_\_\_

No.:\_\_\_\_\_



Dia.:\_\_\_\_\_

Dia.:\_\_\_\_\_



Depth:\_\_\_\_\_

Depth:\_\_\_\_\_



23. Any other information regarding obstructions, delay and other interruption to the sequence of work

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<b>ANNEXURE - B</b> <b>PILE LOAD TEST : VERTICAL / HORIZONTAL / UPLIFT</b>				
Pile No.	Date of Cast	Type of Equipment and method of boring		
Type of Pile	Commencement of Test	Plan of Test arrangement showing position and distance of Kentledge, Supports, tension or compression piles and reference frame to test pile, etc.		
Diameter	Completion of Test			
Capacity	Capacity of Jack			
Type of Test Initial /routine	Jack Constant Weight of Kentledge			
Loading Method Direct / Cyclic	Reaction pile details			

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Date		<p>Submission of Test Results</p> <p>i , Time vs. Settlement.</p> <p>ii , Load vs. Settlement Indicating the Safe Load.</p>
Time		
Pressure Gauge		
Load MT		
Dial Gauge Reading		
Average Settlement		
Net(mm)		
Rebound		

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FREQUENCY OF SAMPLING AND TESTING						
Sl.N o.	Type of Material / Work	Nature of Test / Characteristics	Method of Test	No. of Samples & Frequency of Test	Acceptance Criteria	
1	Pilebore size		Physical measurement	Each Pile	Diameter as per drawing. Length as established by initial load test.	
	a. Diameter					
	b. Length					
2	Bentonite (Mud)					
	properties					
	a. Basic properties of Bentonite before use.	Liquid Limit, Marsh viscosity, Specific gravity, Sand content, Swelling index, pH value.	In Laboratory	Minimum one sample consisting of 3 specimen once in a week.	As per clause No. 7.03.4.	
	b. Contaminated mud from pile bore bottom before concreting	Density, Sand content	In Laboratory	In each pile for first 10 piles before concreting. In case of satisfactory results, the frequency of sampling may be reduced to one in 25 piles.	i). Density shall not be more than 1.25 Te/Cu.M. ii). Sand content shall not be more than 7%.	
3	Position and Alignment		Physical or any approved method.	Each Pile.	As per specification.	
4	Cleaning of pilebore	As per Cl.No. 8.08.0	Each	Pilebore should be free from bored material		

# SECTION-3.0

## HSE MANAGEMENT

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# HEALTH, SAFETY AND ENVIRONMENT (HSE) MANAGEMENT

## FOR

### HINDUSTAN URVARAK & RASAYAN LIMITED

0	30.10.17	30.10.17	FOR ISSUANCE	DILIP	GC	SM
REV	REV DATE	EFF DATE	PURPOSE	PREPD	REVWD	APPD

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## 1.0 INTRODUCTION

1.1 The purpose of the present document is to outline the minimum safety requirements applicable to personnel, equipment and facilities during erection, pre-commissioning and commissioning activities of OWNER / CONSULTANT Construction Sites. Constructing safe structure and providing safe working environment to the personnel is a vital factor in successful construction business. Safety and health are as much as part of effective project planning and control as the cost, schedules, procurement and quality. Indeed they are all closely interrelated. Productivity, safety and quality can move forward in close proximity.

## 1.2 OBJECTIVES

OWNER/CONSULTANT Site Management has following main objectives regarding safety at site.

- No Accident
- To make the environment safe
- No harm to people
- Safety is everyone's responsibility
- To make the job safe

## 2.0 GENERAL

- 2.1 These rules do not exempt the Contractor from statutory Health, Safety and Environmental duties but are intended to assist in attaining a high standard of compliance with those duties, in order to provide a safe and healthy working environment.
- 2.2 OWNER/CONSULTANT will assist Contractors in any practical way to facilitate safe working, and requires full co-operation in observing these rules.
- 2.3 The rules for Health and Safety specified herein are in no way intended to relieve the Contractor from any obligation or liability under the Contract, nor is it intended to relieve the Contractor of any of his legal obligations for the avoidance of accidents.
- 2.4 In all matters arising in the performance of the Contract, the Contractor shall conform with all Statutory Regulations and By-Laws made with statutory authority by Government Departments or by Local or other Authorities that shall be applicable to the Works.
- 2.5 The Contractor, in the performance of the Contract, shall not endanger the safety or unlawfully interfere with the convenience of the public in any manner.
- 2.6 The Contractor's representative on Site shall communicate details of these rules for Health, Safety and Environment to all Contractors' employees and to all Subcontractors and Subcontractors' employees employed on the Site.

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2.7 The requirements of the Client/Owner's existing Site Rules/Regulations form part of the Contract and in the case of conflict between the OWNER/CONSULTANT'S rules, the highest standard shall be applied.

2.8 At the tender stage OWNER/CONSULTANT will require to see a copy of the Contractor's policy, organization and arrangements for the Health and Safety at Work. The Contractor shall submitted complete documents Health and Safety Questionnaire. Contractor shall deploy safety officer of adequate experience at each work site or during each shift including Sunday/holiday with approval of EIC/Owner.

### 3.0 SITE HEALTH, SAFETY AND ENVIRONMENT INDUCTION

3.1 All personnel shall receive OWNER/CONSULTANT and Contractors' site Health, Safety and Environment induction before they commence work on site. The induction shall comprise information on the various hazards which they may come into contact with, instructions on the site emergency procedures, warning and alarm systems, and permit to work system, first aid locations, welfare facilities, access routes and project specific rules.

3.2 It is the responsibility of the Contractor to familiarize all new personnel to the Project on the actual location of muster points, fire alarm points, first aid stations and the like.

### 4.0 DEMARCATION

4.1 Construction personnel are restricted to the construction areas shown on the Contract Drawings. Any personnel found on/in or interfering with the existing works/plant, without permission, will be dismissed from site. Any work outside of these areas may only be carried out with the written agreement of OWNER/CONSULTANT.

Before any work is started on the site, the Contractor's representative shall report to OWNER/CONSULTANT, who will confirm to the Contractor's representative, the limits of the working area(s) and shall be informed of any special requirements appertaining thereto.

### 5.0 ACCESS TO THE CLIENT'S FACILITIES/BUILDINGS

5.1 The Client's Facilities, including the canteen/cafeteria and toilets shall not be used by Construction Personnel.

5.2 Construction Personnel shall not enter any of the Owner's building unless escorted by a member of the OWNER/CONSULTANT'S staff (or working with prior agreement to Owner's Permit to Work System).

### 6.0 BEHAVIOR ON SITE

6.1 All Contractors' personnel shall treat everyone with respect and will refrain from any sexually suggestive or abusive comments or behavior.

### 7.0 SMOKING, EATING AND DRINKING

7.1 Smoking, eating and drinking is allowed in designated areas.

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## 8.0 DRUGS AND ALCOHOL

- 8.1 The possession or use of illicit drugs and alcohol on site is not permitted. Anyone who is found, or suspected to be, under the influence of either will be removed from site (subject to the Contractors' disciplinary procedure).
- 8.2 Anyone taking prescriptive drugs shall advise their employer, in particular those drugs that may impair their performance. Their employer may make arrangements to assign them to more suitable work, but shall ensure that the OWNER/CONSULTANT Construction manager is informed without delay.

## 9.0 PERMIT TO WORK SYSTEM

- 9.1 All construction works will be carried out under a permit to work system. It is designed to protect personnel and plant and consists of an organized and predefined safety procedure. It forms a clear record of all foreseeable hazards which have been considered in advance of construction operations.
- 9.2 The identities of the permit "Issuing Authority" will be OWNER and the "Permit Acceptor" will be the Contractor.
- 9.3 The following types of permits will be issued:
- Clearance Certificate - all other permits are invalid without this Certificate, (this certificate can be used for general work).
  - Hot Job Work Permit.
  - Electrical Work Permit.
  - Confined Spaces Work Permit.
  - Excavations Work Permit.
  - Working at Height work Permit.
  - Radiography Work Permit.
  - Cold Job Work Permit.
  - Road Closure Work Permit.
- 9.4 Written requests for permits must be submitted to Owner at least twenty-four hours in advance and the permits will be issued daily. Permits shall be given to Safety Officers of the contractor, by representatives authorized by Owner in approved formats.

## 10.0 ACCESS, SITE PASSES AND SECURITY

### 10.1 Passes

All personnel and vehicles shall enter and leave the site via the entrance authorized for construction personnel and traffic. Contractors' employees shall not enter any part of the site other than for the purpose of carrying out the Works.

All personnel shall be issued with a site pass. The site pass must be carried (or displayed on the pass holder's lapel) at all times. Details of all personnel requiring site passes shall be submitted to OWNER/CONSULTANT at least seven working days in advance of the

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planned start-on-site date. Site passes shall be submitted for inspection on entering or leaving the site, or when requested for inspection by OWNER/CONSULTANT or Security.

Loss of site passes must be reported immediately to Owner/Consultant. Lack of a site pass may mean delay at the site entrance. Owner/Consultant shall not accept any responsibility for lost time or costs incurred.

On completion of their assignment, or termination or their employment, all personnel will return their site pass to Owner or Owner representative/ Owner authorized personal.

## 10.2 Security

The security of Contractor's plant, tools, equipment, materials (including free issue materials properly handed-over by Owner/Consultant) are the responsibility of the Contractor. It is the Contractor's responsibility to satisfy themselves that the security arrangements in existence on the site are adequate. The Contractor shall provide any other security measure that he deems necessary for the control and security of Contractor owned equipment and plant, including for free-issue plant and materials, both within the site establishment area and the working areas on the site.

Owner accepts no liability for any loss, damage or deterioration to the Contractor's plant tools equipment and materials.

Owner reserves the right to search at random all personnel, any Contractor's employee, or employees of its servants, agents, Contractors or any vehicle entering or leaving the site. Any package or container being taken into or out of the site may be opened and inspected by security staff or any other persons authorized by Owner/Consultant to make such a search or inspection.

It is the Contractor's obligation and responsibility to ensure that OWNER / CONSULTANT right to search and inspect persons and property, extends to and is brought to the attention of all his personnel.

Personnel shall give all possible assistance and make available any facilities required to assist OWNER/CONSULTANT and the Police in pursuance of the prosecution of any person(s) responsible for alleged malicious damage or loss to the Works or existing installations.

Owner shall not accept any responsibility for the loss or damage of personal effects. The security and safekeeping of personal effects is the responsibility of each individual.

- 10.3 Construction personnel will not be admitted to the Construction Areas unless they have undergone Owner/ Consultant's induction, and received a security pass.

### **No Induction, No Pass, No Access to the Site**

- 10.4 OWNER/CONSULTANT reserves the right to deny access to the Construction Site/Areas and/or the Construction Car parks to any person, or vehicle.

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- 10.5 Individuals may be excluded from and refused future entry to the Site and/or Construction Areas for any breach of Safety or Security Rules, or exceeding the speed limit (20 mph on roads leading to the site off the public highway and 5 mph in the construction area).
- 10.6 No plant/skips waste or materials may leave the Construction Area without the clearance of OWNER/CONSULTANT.
- 10.7 The taking of photographs on the site is prohibited.
- 10.8 Vehicles with children under the age of 16 years or animals onboard will not be allowed access.
- 10.9 Visitors will only be allowed by appointment (two days' notice to OWNER/CONSULTANT is required). Visitors shall be accompanied by a member of the Contractor's team (who has received Health, Safety and Environment Induction) at all times. The visitor will have to obtain a visitor's pass, and be collected from and returned to the main gate.
- 10.10 Each Contractor will keep a daily register of who is on site. The register will record name, pass number, time-in and time-out (records on time-clocks will not be permitted). This information shall be used to check personnel (role call) in the event of an emergency

#### **11.0 PARKING, DELIVERIES AND VEHICLE PASSES**

- 11.1 Contractors' personnel shall not be allowed to park any vehicle on the main car park or site. All contractors shall park in the Contractors' Temporary Car Park.
- 11.2 The Contractor shall arrange transport between the parking area(s), the main site gate and the Contractor's establishment and working areas if judged to be necessary.
- 11.3 Vehicles used solely for transporting of tools and equipment may be allowed access to the working area(s) for unloading/loading only.
- 11.4 Owners of vehicles parked illegally will have their car pass taken off them and told to remove the vehicle from site. They may have their site pass withdrawn and be refused further access to the Construction Site.
- 11.5 The Construction Areas will be restricted to construction plant and delivery vehicles.
- 11.6 The speed limit on site is 10 mph on the approach roads leading to the site off the public highway and 5 mph on the construction areas

#### **12.0 SITE OPENING AND CLOSING TIMES**

- 12.1 The site will be open from 8.00am to 6.00pm Monday to Saturday. Work outside the agreed normal working hours will be by agreement with Owner (subject to two working days' notice). All applications for out of hour working will identify the scope of work, supervision arrangements and a list of personnel.

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### 13.0 SITE SUPERVISION

13.1 The Contractor must ensure that an employee of suitable seniority and authority, with responsibility for Health and Safety, is always present on site during the course of the works, to supervise and direct the Works and to receive and implement instructions from OWNER/CONSULTANT. Seven days before commencing works on site, the Contractor must notify OWNER/CONSULTANT of the name of that employee.

13.2 All supervisory staff shall be made aware of their responsibilities for safety.

### 14.0 TRAINING, COMPETENCE OF EMPLOYEES AND NOTIFICATION OF HAZARDS

14.1 Each Contractor must ensure that all his supervision and employees have had adequate safety training and are experienced to carry out their work safely, prior to starting on site. Training should be continuous throughout a project and should include regular toolbox discussions, (on site briefings at the start of each working day/shift).

To this end, the Contractor must also ensure that specific hazards likely to be experienced on the Site, whether notified to them or discovered by them, are notified to their workforce together with any precautions to be taken and local rules to be observed. Similarly, such hazards should be notified to their Subcontractors and, where discovered by them, to OWNER/CONSULTANT.

14.2 Where particularly severe or unusual hazards may arise on site, OWNER/CONSULTANT reserves the right at no additional cost to request Contractors' employees to attend special safety training and instruction sessions, whether carried out on site or externally. OWNER/CONSULTANT also requires Contractors' employees to undergo specified induction safety training. These aspects should be checked prior to submission of Tenders or execution of the works.

### 15.0 METHOD STATEMENTS

15.1 Contractors shall submit Safety Method Statements and JSA for all work activities, for example:

- Piling Operations.
- Excavation works.
- Lifting operations, as specified.
- Steel erection.
- Hot work operations.
- Radiography/NDT.
- Entry into confined spaces.
- Pressure testing.
- Working at height.
- Shot fired tools.
- Installation of pre-cast concrete planks.
- Pre-cast concrete structure.
- The erection of safety nets and fall arrest equipment.



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Safety method statements must also be submitted for activities which have been identified as being of significant risk during the risk assessment process and activities selected by OWNER/CONSULTANT.

15.2 All Safety method statements must be submitted to OWNER/CONSULTANT at least seven days before planned commencement of the works.

15.3 The Safety method statement shall detail:

- The job to be undertaken.
- The individual activities required to complete the job.
- The individual trades/disciplines involved in each activity.
- Plant, equipment and tools to be used in each activity.
- Any substances/chemicals to be used and where, and during which activity they will be used (together with a COSHH assessment).
- The Name(s) of the Supervisor(s) for each activity.
- The Name of the person in overall charge of the job.
- A detailed description of how the work will be done including control measures and procedures to complete each activity and the overall job safety.
- All hot work.

15.4 Compliance with the contents of the safety method statement shall be monitored on a daily basis and addressed during Contractors' safety management meetings.

15.5 The Contractor must ensure that employees executing the works are fully briefed and are made aware of the details within the approved Safety Method Statements, prior to starting the task, this includes highlighting hazards associated, associated risk assessments and reduction measures.

## 16.0 RISK ASSESSMENTS

16.1 Contractors will be required to produce risk assessments for all works under their control. The risk assessment shall be submitted as part of the Safety Method Statement to OWNER/CONSULTANT at least seven days before the job commences, and include the following information:

- Identification of all hazards applicable to significant risk activities.
- Details of measures in place to control the risk.
- Justification that the existing control measures are adequate or if not, a detailed action plan on how the risk(s) shall be controlled.

16.2 The use of Generic Risk Assessments is only acceptable if they follow the logical progression of the method statement and that specific operation, otherwise, task specific risk assessments will be required.

16.3 All risk assessments must be communicated to the workforce who will be responsible for undertaking the work.



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## 17.0 COMPLIANCE WITH STATUTORY REGULATIONS

- 17.1 Contractors shall carry out their work in accordance with statutory legislation. It is the duty of the Contractor to have knowledge of all relevant legislation and take account of it in the planning and execution of the work on OWNER/CONSULTANT' Sites.

## 18.0 INFORMATION TO BE PROVIDED AND POSTED

- 18.1 Contractors shall have in place, and issue to OWNER/CONSULTANT the following documents or information prior to commencement of their work, (where detailed within these rules):

- 18.1.1 Safety, Health and Environmental Policy.
- 18.1.2 Employer's Liability Insurance Certificate.
- 18.1.3 A detailed Health, Safety and Environment Plan, compliant with the project plan developed by the Planning Supervisor and/or Principal Contractor.
- 18.1.4 Work Method Statement Lifting Studies.
- 18.1.5 COSHH Procedures and Assessments.
- 18.1.6 Noise Procedures and Assessments.
- 18.1.7 Name of the individual appointed as the Site Safety Supervisor/Advisor.
- 18.1.8 Test certificates and examination for lifting gear, plant and appliances to be used on site. (Duplicates to be provided for OWNER/CONSULTANT's records.)
- 18.1.9 Drawings and calculations relating to false work, designed scaffolds, ground works and supporting temporary works.
- 18.1.10 Details of young persons to be employed on site.
- 18.1.11 Information relating to hazards associated with plant, operation and materials used in the works.
- 18.1.12 Proof of training for all personnel engaged in the works.
- 18.1.13 Daily Labour Returns.
- 18.1.14 Monthly Return of Accident Statistics to submitted OWNER/CONSULTANT format (Nil returns required).
- 18.1.15 Personal Injury Report to submitted to OWNER/CONSULTANT format (all injuries, however minor, to be reported). OWNER/CONSULTANT may request a detailed investigation into an accident. OWNER/CONSULTANT' decision on which incidents require detailed investigation is final.
- 18.1.16 Dangerous Occurrences, Incidents, Damage to Equipment and/or Property report to be submitted to OWNER/CONSULTANT format.
- 18.1.17 All entries/records of accidents entered into the Contractor's Accident Book shall also be copied into OWNER/CONSULTANT' Accident Book by the Contractor.
- 18.1.18 Copies of all Statutory Registers to be submitted weekly to OWNER/CONSULTANT.
- 18.1.19 Copies of the Contractor's Safety Officer/Advisor's reports of their findings on site visits/inspections.

## 18.2 Accidents, Incidents, Dangerous Occurrences and Notifiable Diseases

### 18.2.1 Accidents/Incidents/ Dangerous Occurrences/Near Misses

All accidents/incidents/dangerous occurrences/near misses must be notified to OWNER/CONSULTANT immediately, and a report prepared.

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For reportable incidents, a copy the report to the Authority must be submitted to OWNER/CONSULTANT on completion but no later than two calendar days after the accident.

18.2.2 OWNER/CONSULTANT reserves the right to decide which accident, incidents or minor injuries shall be Investigated, and to what extent/format/contents of any investigation.

**Note:** All such notification or reports to OWNER/CONSULTANT do not release the Contractor of his statutory duties to report such matters to the Authorities by the quickest possible means (viz, telephone, fax and e-mail) immediately following the incident/accident.

## 19.0 PERSONAL PROTECTIVE EQUIPMENT/CLOTHING

19.1 All personnel on OWNER/CONSULTANT' site must wear as a minimum safety helmet, hi-vis vest, safety glasses and protective footwear. Additional personal protective equipment may be required dependent on the tasks being undertaken or as dictated by the risk assessment.

19.2 Contractors shall provide all necessary personal protective clothing and equipment for their employees and renew as necessary. Records of the issue of such equipment must be maintained for inspection by OWNER/CONSULTANT.

19.3 The Contractor shall:

- Provide personal protective equipment which is comfortable and fit for purpose.
- Maintain and clean personal protective equipment.
- Replace free of charge defective, broken or lost personal protective equipment.
- Provide storage for personal protective equipment when not being used.
- Ensure that personal protective equipment is properly used.
- Give training, information and instruction on its use to employees.
- Ensure that all personnel wear suitable clothing at all times (**no shorts, no sports shirts and no colours that may invite aggression - HSE "Keep Your Tops On" is enforced**).
- OWNER/CONSULTANT reserves the right to direct the contractor to change/replace personal protective equipment if they determine that it is unsuitable or inadequate for its proposed use.

## 20.0 SUBSTANCES (Control of Substances Hazardous to Health – COSHH)

20.1 Substances hazardous to health must be identified prior to taking them onto site and, if they cannot be substituted or eliminated, assessments stating how the substances will be controlled and what precautions will be introduced must be carried out and recorded in writing by a competent person. This assessment must be communicated to, and understood by, the members of the workforce who are likely to come into contact with the substance(s). A copy of all assessments should be submitted to OWNER/CONSULTANT.

20.2 Hazardous substances may only be brought to site with OWNER/CONSULTANT' permission. They shall be kept to a minimum and must be stored in secure, appropriate containers with the contents clearly labelled. The containers must be stored in a secure

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area, preferably quarantined from the main stores areas, with suitable warning notices and signage posted.

- 20.3 Hazardous materials must not be allowed to discharge into natural watercourses or drainage systems.
- 20.4 All hazardous material waste must be kept separate from normal waste and be disposed of in a specialist disposal facility.

## **21.0 NOISE**

- 21.1 When any operation of a Contractor is likely to expose any employee on site to an average noise level of 85 dB(A) and above, an assessment shall be carried out, by the Contractor, and records maintained for OWNER/CONSULTANT' inspection. In such circumstances, the Contractor must keep stocks of adequate ear defenders or other suitable hearing protection.
- 21.2 In addition to the foregoing, noise must be kept to a minimum at all times and must not exceed acceptable and/or locally specified rules and conditions relating to noise imposed by the Contract. Due regard must always be given to noise levels, and their effects on the local community and persons not involved in the operations. Permissible times for noisy work operations, and other restrictions, may be imposed by the Local Authority. Contractors receiving Notices or Prohibition Notices under the related legislation must notify OWNER/CONSULTANT of such Notices.

## **22.0 FIRST AID**

- 22.1 All Contractors shall provide or ensure that they are provided with, such equipment and facilities as are adequate and appropriate in the circumstances for enabling first-aid to be rendered to any of their employees if they are injured or become ill at work.
- 22.2 No work shall commence on site until Contractors have trained first aid personnel on site. Contractor at all times during execution, shall station at site an emergency vehicle without any extra cost or claim.

## **23.0 TOOL BOX TALKS**

- 23.1 Tool Box Talks will be implemented by all Contractors. The agenda for these talks will be agreed with OWNER/CONSULTANT prior to the commencing of work.

## **24.0 HEALTH, SAFETY AND ENVIRONMENT INSPECTIONS/HEALTH, SAFETY AND ENVIRONMENT ADVISORS**

- 24.1 The OWNER/CONSULTANT' Health, Safety and Environment Engineer/Advisor will visit the sites and carry out Site Safety Inspections. Contractors must co-operate in these inspections. Whenever Contractors' own Health, Safety and Environment Advisors visit site they must report their arrival and departure to the OWNER/CONSULTANT' Senior Representative, and provide a report of their findings and any necessary corrective action to be undertaken.

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24.2 Contractors on the project must provide a full-time site based Health, Safety and Environment Advisor, when the intensity of the work requires or at the request of the OWNER/CONSULTANT.

24.3 Contractors who do not have full-time site based Health, Safety and Environment Advisors, shall ensure that their Health, Safety and Environment Advisor visits site once per week as a minimum.

#### 24.4 **Appointment of Health, Safety and Environment Supervision**

The Contractor shall appoint safety supervision. The name of each appointee, together with evidence of his or her competence to carry out the requirements of the role, shall be submitted to OWNER/CONSULTANT for their approval.

### 25.0 **HEALTH, SAFETY AND ENVIRONMENT MEETINGS**

25.1 Health, Safety and Environment will form part of the agenda at all Site Progress Meetings. The Contractor's Safety Advisor may be asked to attend these progress meetings.

25.2 Once per month OWNER/CONSULTANT' Resident Construction Manager shall convene a Health Safety and Environment Meeting of all Contractors. Attendees at the meeting shall be all Contractors' Safety Advisors and Site Managers.

### 26.0 **HEALTH, SAFETY AND ENVIRONMENT COMMITTEES AND SAFETY REPRESENTATIVES**

26.1 OWNER/CONSULTANT encourages the workforce to nominate Safety Representatives as a way of improving communication on Health, Safety and Environment issues. Wherever Contractors' Safety Representatives have been appointed, OWNER/CONSULTANT must be informed of their appointment in writing.

### 27.0 **HOUSEKEEPING**

27.1 Contractors are expected to carry out their work in a clean, safe and orderly manner.

27.2 Dust shall be kept to acceptable levels for the work being carried out. Waste materials and rubbish shall be cleared up as the work progresses and not left to introduce a safety hazard for other personnel engaged on the works.

27.3 Construction waste should never obstruct emergency exit routes, Firefighting equipment, emergency alarm call points or other emergency facilities.

27.4 From time to time as judged necessary, at the expiration of the contract, or when instructed to do so by OWNER/CONSULTANT, the Contractor shall undertake to clean and tidy his areas of occupation and work to the satisfaction of OWNER/CONSULTANT. Should the Contractor fail to do this, OWNER/CONSULTANT reserves the right to remove all offending materials and debris and to deduct the cost of this operation from the Contract Price. OWNER/CONSULTANT accepts no responsibility for any materials and/or tools which may be removed during this operation.

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27.5 The Contractor must ensure that the following requirements are strictly enforced:

- Ample provision of refuse bins for all rubbish including organic waste such as food scraps, etc.
- Daily clearance of all such bins to the area designated for this discharge.
- No discharge of deleterious matter such as oils or other industrial waste.

27.6 All site offices, toilets, eating facilities, changing rooms, drying areas, stores, etc, which are the responsibility of the Contractor, shall be cleaned daily as a minimum by the Contractor. These facilities shall be checked for vermin on a two weekly rota.

## 28.0 FIRE PREVENTION

28.1 Before welding, flame or arc cutting of metals, or other processes involving heat or naked lights are permitted, a fire risk assessment shall be carried out by the contractor and arrangements agreed with OWNER/CONSULTANT who will issue a Permit to Work.

28.2 Contractors shall familiarize both themselves and their employees with the fire safety arrangements, fire alarms, means of escape and emergency evacuation procedures.

28.3 Before leaving the premises and site, contractors shall ensure that naked lights and other ignition sources have been extinguished and electrical apparatus, where practicable, switched off and/or disconnected.

28.4 Contractors shall store Highly Flammable Liquids and Liquefied Petroleum Gases in a manner approved by OWNER/CONSULTANT.

28.5 OWNER/CONSULTANT' fire protection equipment shall only be used in an Emergency. Fire extinguishers/fire blankets for use when carrying out hot work shall be provided by the Contractor.

## 29.0 REMOVAL OF WASTE FROM CONSTRUCTION SITES

29.1 The removal of waste shall only be undertaken by Licensed Waste Carriers.

29.2 Where there is any doubt of the composition of excavation spoil, it must be analyzed before it is removed from site.

29.3 Evidence of compliance shall be submitted to OWNER/CONSULTANT prior to the removal of any waste from site.

29.4 Controlled waste is any kind of household, industrial or commercial waste. This includes, for example:

- Scrap metal.
- Building, construction, demolition and excavation waste, including waste from any repair or renovation.
- Clinical waste.

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- Anything which is unwanted because it is surplus, broken, worn out, contaminated or spoiled in some other way.

Controlled waste disposal must be managed via a chain of transfer notes, maintained by the contractor and readily retrievable for OWNER/CONSULTANT' inspection.

### 30.0 EXCAVATIONS AND OPENINGS

- 30.1 No excavation work shall be commenced by the Contractor unless a valid excavation permit has been issued. The Contractor shall have on site at all times while excavation work is being carried out, detection equipment which meets the latest technology.
- 30.2 Prior to the start of any excavation, OWNER/CONSULTANT shall be consulted and the presence of overhead and buried service records shall be checked. Where "live" services are present, hand excavation must be carried out until the location of the service has been identified, recorded and made safe.
- 30.3 The Contractor must erect suitable solid edge protection (i.e., double handrails) around excavations or openings. During the hours of darkness any excavations, openings or obstructions near or on roadways and walkways must be indicated by a sufficient number of warning lamps.
- 30.4 The sides of all excavations should be properly shored, battered or stepped to prevent collapse. No excavation work shall commence unless there are adequate resources present to ensure the stability of the excavation. Excavations shall be inspected prior to, or re-commencement of the work to ensure the excavation is still in a safe condition.
- 30.5 All excavations shall have a proper ladder access point provided.
- 30.6 Spoil from excavations must be piled at least 1m from the edge of the hole.
- 30.7 Vehicular traffic shall be restricted from the edges of excavations, to prevent possible collapse.

### 31.0 ELECTRICITY

- 31.1 All Contractors must provide their own electrical power supplies or as per Technical ITB.
- 31.2 Contractors must not interfere with, or work on any of, the Client's electrical installations or equipment without written consent.
- 31.3 Where Contractors have to work in the vicinity of electrical equipment they must carry out a risk assessment prior to commencement of any works.

**ALL EQUIPMENT MUST BE TREATED AS "LIVE" UNLESS ISOLATED/LOCKED OFF AND TAGGED.**

- 31.4 Repair or installation of any electrical equipment must only be carried out by a competent qualified electrician.



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- 31.5 The electrical supply to powered hand tools must not exceed permissible volts, centre tapped giving appropriate volts to earth. Where this is not possible, due to the type of tool being used, the approval of OWNER/CONSULTANT must be sought in writing.

Electrical lighting for use in confined spaces must not exceed 24 volts (and be explosion proof where applicable). Powered hand tools used in confined spaces should, where possible, be air operated.

- 31.6 Contractors requiring to install temporary electrical supply equipment shall submit a temporary electrical supply procedure to OWNER/CONSULTANT for approval. The procedure shall, where necessary, cover installation of 380/440 volt system, installation of 110 volt system, lighting system, welding equipment installation, inspection testing operation and maintenance of temporary electrical systems.

#### 31.6.1 **Distribution Boards** - Semi-permanent or Long Term

These should be accommodated in weatherproofed locations and be so arranged, if possible, that they will not need to be moved during the Contract. They should be proofed against interference or unauthorized operation and they should be large enough to accommodate all the necessary apparatus required. Each circuit should be clearly labeled and a circuit diagram should be located at each board.

#### 31.6.2 **Distribution Boards** – Temporary

These are usually small portable panels or boards containing two or three socket outlets. They must be of robust construction, preferably all-insulated and should be supplied by heavy duty flexible cables, these cables shall not be spliced. Socket outlets, plug connectors and cable couplers should comply with High Standards or equivalent industry standard.

#### 31.6.3 **Distribution Cables**

These cables run from the main distribution boards to the local distribution boards throughout the site.

The cables will normally be multi-strand multi-core armored PVC cables but, in certain cases, may take the form of Mineral Insulated Copper Clad (MICC) cables. The latter type should be sheathed with PVC.

The installation must be so arranged as to prevent the need for long trailing cables. Socket outlets should be located as near the working point as possible.

Power and lighting circuits should be kept separate.

A full record should be made of all parts of the installation and should be kept up to date when alterations or extensions are made.

#### 31.6.4 **Underground Cables**

Cables may be provided by the Contractor and laid underground or overhead to connect the supply or metering point to the semi-permanent site distribution boards.

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The cables must be suitable for the duty and loading expected, e.g., armored PVC cables.

The cables should be buried at a safe depth or taken from a height so as not to obstruct the movement of persons and vehicles and their routes clearly marked both on the site and on the site plans.

The cables should be properly terminated and be provided with efficient circuit protection.

Cable routes should be so arranged that the minimum of obstruction is caused. The cables should be treated with care and given the same supervision and protection as other cables.

- 31.7 No temporary electrical supply shall be installed or modified without the agreement and approval of OWNER/CONSULTANT.
- 31.8 Any tool, plant or equipment exceeding 110 volts (55v to earth) shall be connected to an earth leakage circuit breaker (ELCB).

## 32.0 WORK IN CONFINED SPACES

- 32.1 All work in confined spaces must be covered by a safety method statement.

Safety method statements for work in confined spaces should include arrangements for the following as a minimum:

- Issue of a permit to work
- Work scope and method.
- Nominated Supervisor.
- Tally man.
- Rescue procedures and equipment.
- Training.
- Tools and equipment to be used, including low voltage or pneumatic.
- Lighting requirements, including standby/emergency.
- Explosion proof fittings.
- Low voltage or pneumatic tools.
- Ventilation.
- Access.
- Bonding to prevent both electrical shock and static discharge.
- Work cycles, to reduce risk of heat exhaustion.
- Fire safety and extinguisher requirements.

- 32.2 Contractors shall not enter or commence work in any excavation, tank, vessel, pipe or chamber or other enclosed space, until a valid permit to work has been issued. Where Contractor's operations result in a dangerous atmosphere arising during the monitoring of the work activity, the permit to work issuing authority must be informed and all personnel removed from the area.

No new activity shall be introduced into a confined space without the permission and signed approval of the permit to work issuing authority.

Whilst work is ongoing within a confined space, the Contractor will be required to provide a trained standby/tally man.



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32.4 All personnel who have to enter confined spaces must have undertaken the training appropriate to this task.

### 33.0 MOBILE CRANES

33.1 All cranes (including piling rigs, fork lift trucks, mobile elevated work platforms, hand lorries and similar equipment), whether owned by the Contractor or hired, must carry relevant test certificates and thorough examination reports, together with the manufacturer's handbook. Copies of this documentation must be submitted to Owner/Consultant prior to commencing work.

33.2 Only persons who are certificated as competent and authorized shall be allowed to operate cranes. The Contractor must be able to prove the competence of their employees to operate such equipment prior to its use.

33.3 Crane operators or other competent persons must carry out daily inspections and enter these in the crane register. Failure to maintain the register properly may lead to suspension of operations. This obligation is the responsibility of the crane hirer when he is supplying the crane and the operator. In addition, the Contractor will implement a regular inspection and maintenance programme to ensure that all components of the lifting device are in good condition.

33.4 Travel routes for cranes and crane standing must be agreed with OWNER/CONSULTANT in order to avoid such things as overhead lines and other structures, underground services, excavations, made up ground, etc. Load spreader pads of sufficient size and thickness area, and of suitable material, e.g., metal plates, timber, etc, are to be placed under each outrigger foot, before all crane lifting operations are allowed to commence.

33.5 Crane duty charts (Load Radius Tables) must be displayed on or be available in the crane for easy reference. In addition, crane manufacturers' rigging/de-rigging instructions must be available on site. During rigging/de-rigging of jibs/booms, provision must be made to support sections/either side of rigging points, from below, utilizing tightly packed blocks.

33.6 All cranes shall be fitted with:

- A reverse warning audible alarm.
- Load radius indicator.
- Automatic safe load indication.
- Crane hooks with safety catches.

All of which must be serviceable.

33.7 All lifting equipment accompanying the crane shall comply with the requirements of lifting regulations.

33.8 The assembly, rigging and de-rigging of any crane components, including fly jibs, shall only be done under the supervision of a competent lifting supervisor. An approved risk assessment, together with the manufacturers' rigging/de-rigging instructions must be in place covering rigging activities for the equipment.

33.9 Every Contractor involved in lifting operations with a crane (including a piling rig) or mobile crane shall appoint, in writing, a lifting supervisor to oversee all lifting operations.

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33.10 No crane shall travel with a suspended load.

33.11 Outriggers, when installed, must always be used.

#### **34.0 LIFTING OPERATIONS**

34.1 A Lifting Study and Safety Method Statement must be prepared for all heavy lifts exceeding 10 tons, or of a complex nature, e.g., tandem lifts or as specified by the Construction Manager (or the Rigging and Lifting Supervisor) and submitted to OWNER/CONSULTANT for review.

34.2 Every lifting operation must be properly planned by a nominated, competent person.

34.3 Every lifting operation shall be appropriately supervised.

34.4 All slinging and rigging of loads must be carried out by competent personnel.

34.5 Clear communications between the crane operator and the person responsible for controlling the lift must be established.

All statutory Inspection Reports/Certification/Documentation and proof of the driver's training shall be photocopied and handed to OWNER/CONSULTANT prior to the setting up of the crane. Certification for lifting equipment to be used in the lift shall be identified and cross checked with the item of plant

#### **35.0 STEEL ERECTION**

35.1 The weight of each component in excess of 500 kg shall be clearly marked upon it.

35.2 Erectors must be fully informed of the correct erection sequence, by their supervisor, prior to each stage of work commencing.

35.3 Vertical access provision should, whenever possible, be fixed to the steel before it is lifted into position. Where this is not possible permanent access, ie, stairways or permanent metal ladders, shall be installed as early as possible.

35.4 Where horizontal access along structural members is required, as much work as possible must be completed before the steel is lifted into position. This includes:

Fixing of handrails or posts for securing steel wire ropes to be used in conjunction with safety harnesses or inertia reels.

The fixing of scaffold tubes (needles) to the lower flange of an I-beam to allow a working platform to be erected.

Where scaffold tubes (needles) are used they shall not support a working platform wider than three boards, or one lightweight staging without being "picked up".

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Where no ladder access, permanent stairway, etc, leads onto working platforms, as described above, employees must use man riding baskets or mobile elevated work platforms as far as reasonably practicable to access working areas.

### 36.0 SCAFFOLDING

- 36.1 All scaffolding must be of good quality, be erected in compliance Good Practices for Access and Working Scaffolds, and special scaffold structures in steel. In addition to the main guard rail, an additional guardrail is required such that the gap between the toe-board and main guardrail does not exceed 470mm and all boards must be secured, without causing a tripping hazard.
- 36.2 All scaffolding shall be erected, modified and inspected by qualified competent scaffolders.
- 36.3 Where materials are to be positioned on scaffolding the Contractor's supervision must ensure that the scaffolding is not overloaded.
- 36.4 Before use, scaffolding shall be inspected by an authorized Scaffold Inspector who shall complete a "scaffold tag" and secure it in a prominent position at the base of all ladder access points. The scaffolding tag will clearly show the following information as a minimum:
- Location.
  - Reference number.
  - Requested by.
  - Access Scaffold Classification.
  - Maximum distributed load/working lift.
  - Maximum number of working lifts to be used simultaneously.
  - Date erected.
  - Erected by.
  - Inspected by.
- 36.5 Scaffolds shall be inspected at weekly intervals or after storms by the authorised Scaffold Inspector who shall sign and date the "Scaffold Tag" after each inspection. Scaffolding not considered safe shall have the Scaffold Tag withdrawn and a prominent "DO NOT USE" sign displayed.
- 36.6 A scaffold register shall be maintained by the authorized Scaffold Inspector. This shall contain:
- Date of first and subsequent weekly inspections.
  - Individual identifications of all scaffolds which shall be cross-referenced to the Scaffold Tag identity number.
  - Clear name and signature of the authorized Scaffold Inspector against each separate scaffold inspected.
- 36.7 No scaffold may be erected which impedes normal access or can be accidentally struck by moving plant without prior consultation with OWNER/CONSULTANT to ensure that a safe system of work is in place.

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- 36.8 Contractors are not permitted to erect or carry scaffolding near live overhead electrical cables, or equipment because of the danger of tubes making accidental contact with electrically charged apparatus.
- 36.9 If there is any doubt about the security of any anchorage, suspension points or ties for a scaffold, e.g., strength of existing buildings/structures, or those under construction, OWNER/CONSULTANT must be consulted before proceeding with erection.
- 36.10 All scaffolds must be provided with suitable access. Where ladders are used for this purpose they must be of adequate length and properly secured by lashing or fixing to prevent displacement.
- 36.11 Action shall be taken to warn personnel against using partly erected or dismantled scaffolds. A prominent "DO NOT USE" sign shall be clearly displayed.
- 36.12 OWNER/CONSULTANT shall approve the sitting of the scaffold material racks/compounds.
- 36.13 Mobile tower scaffolds shall not be constructed with a height greater than 3 times the minimum base width and shall only be used on level ground. Towers shall only be erected by trained personnel.
- 36.14 In addition to weekly inspections, wooden scaffold boards shall be subject to a monthly inspection to ensure wood has not rotted or been subject to insect damage
- 36.15 The Contractor shall ensure that the system of work employed for the erection and dismantling of scaffolding shall not expose the Scaffolders to any risk.
- 36.16 All scaffolding must be erected and dismantled to the requirements laid down in the current regulations and guidance notes and to the requirements of OWNER/CONSULTANT.

### **37.0 LADDERS/STEPS**

- 37.1 Ladders must be in good condition and free from defects, i.e., broken rungs, split stiles.
- 37.2 Ladders must not be painted.
- 37.3 Ladders must:
- Be securely fastened at the top.
  - Be properly positioned at the base.
  - Extend at least 1m (5 rungs) above the working platform.
  - Be at an angle of 300mm out for every 1.2m vertical drop.
- 37.4 **All steps used on the project Site.**
- 37.5 Only one person must be allowed on a set of steps at any one time.
- 37.6 Persons must work with a set of steps of the appropriate height for the task.
- 37.7 The top rung of the steps must be kept at waist height, no work to be carried out above this height on steps.

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37.8 Ladders are to be used as a means of access not as a working platform except for light, minor or one off activities. Then the person must wear a harness and tie-off to a suitable anchorage whilst carrying out the minor task.

### 38.0 FALL PROTECTION

38.1 Depending on the task and the risks, harnesses and appropriate anchorages/running lines will be used for activities carried out above a height of 2 meters.

38.2 Fall protection equipment shall be subject to regular inspection by a competent person, and a register maintained for OWNER/CONSULTANT' inspection.

38.3 During the execution of work at height, where it is not practicable to work from within a standard working platform with double handrail and toe boards (for example erection of structural steelwork, installation of roof components, etc), safety netting capable of catching a falling person must be installed as far as reasonably practicable.

38.4 The provision of safety netting does not relieve individuals from utilizing fall protection devices during the execution of the works.

38.5 The safety nets should be manufactured to Indian Standard and erected in accordance with good practices by a competent person.

38.6 The safety nets must bear a label stating the normal size of the net; the date of manufacture, the deflection at the centre of the net during the prescribed test and the maximum distance below the working height for which the net is designed to be used.

38.7 Test certificates must be provided for all safety nets, which will state the breaking strength of the net and provide details of the drop test carried out.

38.8 All safety nets must be periodically tested at intervals not exceeding three months – and records of these tests must be retained.

38.9 A formal inspection of safety nets must be carried out weekly to check for damage, loose ties, changes in anchorage points, etc. Records of these inspections must also be retained.

### 39.0 MOBILE ELEVATED WORK PLATFORMS

39.1 The term Mobile Elevated Work Platform (MEWP) covers the following types of equipment:

- Scissor lifts.
- Telescopic booms or jibs.
- Articulating and telescopic booms.

39.2 Anyone who is to operate a MEWP must be competent and have received formal training accredited by manufacturer.

39.3 Prior to any MEWP being used on site, a formal risk assessment must be carried out to identify any potential hazards which may exist as a consequence.

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- 39.4 Whilst working within the platform of a MEWP, all personnel must wear a safety harness which is attached to a secure anchorage point within the platform.
- 39.5 Before commencing work from a MEWP, the surrounding area should be cordoned-off to prevent personnel straying into a potentially hazardous area.
- 39.6 The Safe Working Load specified on the MEWP must not be exceeded.
- 39.7 If the MEWP has been manufactured with outriggers or stabilizers, they must always be deployed.
- 39.8 Prior to commencing work, ground conditions must be checked to ensure that the ground bearing capacity will not be exceeded by the loading from the MEWP. Where required, spreader plates shall be used to distribute the loading.
- 39.9 The MEWP shall only be permitted to travel with the platform occupied and/or the boom extended if it is within the machine's specified operational capabilities.
- 39.10 MEWP shall not be used as a jack, prop or support.
- 39.11 MEWP shall not be used as a crane or lifting device.
- 39.12 MEWP shall not be used primarily for the transport of goods or materials.
- 39.13 MEWP shall not be used in wind speed exceeding 30 mph (12.5 m/s).
- 39.14 All MEWPs must be subjected to a regular maintenance and inspection regime, which as a minimum will require weekly inspections by a competent person and a thorough examination every six months.

#### **40.0 CONTRACTORS' TOOLS AND EQUIPMENT**

- 40.1 All Contractors' tools and equipment must be fit for purpose. Tools should be CE marked.
- 40.2 Guards and electrical trip switches must work effectively and must not be removed or by-passed.
- 40.3 All tools shall be of good quality and maintained in a safe working condition. Home made tools are not permitted.
- 40.4 The Contractor shall provide suitable storage with suitable racks and bins for storing tools and equipment.
- 40.5 All temporary construction leads, lighting and portable electric tools shall be of appropriate volts.
- 40.6 The Contractor shall nominate or employ the services of a competent qualified person to inspect and tag electrical power hand tools, transformers, distribution boards, extension cables, etc, on an at least a three monthly basis (PAT testing). The tag shall display name, signature of the individual inspecting the tool and date of inspection.

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40.7 The Contractor shall keep, on site, a register of all electrical power hand tools in use. The register shall detail:

- Individual identity number of the tool.
- Name, signature and company of the qualified electrician carrying out the inspection.
- Date of inspection.
- Maintenance and Inspection schedule.
- Remarks on condition of tool and whether repaired or withdrawn from use.

40.8 No electrical powered hand tool shall be used unless it is tagged with a current "INSPECTION" tag.

40.9 All electrical leads must be connected to the power source through standard industrial waterproofed plugs and sockets, which shall be in good condition.

#### **41.0 MECHANICAL PLANT AND EQUIPMENT**

41.1 Mechanical plant and equipment is defined as:

- Earthmoving plant.
- Road making plant and equipment.
- Concrete batching plant and mixers.
- Forklift trucks.
- Miscellaneous plant, including generators and compressors.
- Mobile elevating work platforms (e.g., star- lift, cherry picker, etc).

41.2 All items of mechanical plant transported to the project shall be in a safe and sound condition and shall be properly maintained. Emissions shall be to acceptable limits and no smoke shall be discharged.

41.3 A programme of regular, preventative maintenance shall be established by the Contractor, as per the manufacturer's handbook, to ensure that all plant equipment is systematically inspected, maintained and repaired as necessary.

41.4 The preventative maintenance programme and the Contractor's employee responsible for taking the action shall be clearly detailed, identified and given to OWNER/CONSULTANT.

41.5 A safe system of work must exist during all maintenance and repair operations to ensure that no part of the machinery is set in motion while work is being carried out.

41.6 Plant maintenance must not be carried out within the main construction site.

41.7 Where refueling is required, facilities provided shall be adequately covered by fire extinguishers, earthing, warning signs, bonding and proper fuel dispensers. Refueling areas shall be curbed to avoid spills.

41.8 Waste oil removed from vehicles after servicing shall be sent to the appropriate off-site waste disposal facility and this is the responsibility of the Contractor.



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41.9 The OWNER/CONSULTANT'S tools, plant and equipment may not be used by Contractors without their express permission.

## 42.0 COMPETENCY/PLANT EQUIPMENT

42.1 All drivers and operators of mobile plant (mechanically propelled vehicles) shall be in possession of the appropriate license for the class of vehicle.

42.2 It is the responsibility of the contractor to ensure that all drivers, operators and banks men of mobile plant (mechanically propelled vehicles) are certificated as competent.

### 42.3 General

42.3.1 Every dangerous part of machinery shall be securely guarded.

42.3.2 Any guards removed for maintenance or repair purposes must be replaced before the machine is set in motion.

42.3.3 No mobile plant (mechanically propelled vehicles) shall carry passengers unless a proper fixed seat is provided, except when the equipment is specifically designed for standing personnel.

42.3.4 Mobile plant (mechanically propelled vehicles) must be parked on firm level ground when unattended, the engine stopped, brakes on and any load or attachment lowered to the ground and the keys left in the ignition.

42.3.5 No mechanical plant or equipment shall be sited on or operated on any area of the project without express the permission of OWNER/CONSULTANT.

42.3.6 All items of mobile plant (mechanically propelled vehicles) shall be fitted with a reverse warning audible alarm.

42.3.7 All drivers/operators of mobile plant (mechanically propelled vehicles) shall strictly obey the instructions of the site security, traffic regulations and speed limits. A banks man shall be in attendance during all reversing procedures.

### 42.4 Inspection

All mobile equipment (mechanically propelled vehicles) shall be inspected by a competent person appointed by the Contractor prior to use on site. Equipment considered to be unsafe, by OWNER/CONSULTANT, shall not be allowed access to the site.

### 42.5 Flame Arrestors

42.6 All mobile plant for use in Petro Chemical Live Plant Areas, or during the Start-up and Commissioning Phase of the project, must be fitted with Exhaust Flame Arrestors and Chalwyn Valves where there is a risk of flammable gas releases.



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### 43.0 MACHINERY GUARDING

- 43.1 Unauthorized personnel must not operate, interfere or tamper with plant or equipment.
- 43.2 Persons authorized to use machines must first check that guards are in position and that any other safety devices, e.g., emergency stops, are in working order.
- 43.3 All plant or equipment brought onto the site must be properly guarded to prevent injury and be CE marked.

**NO GUARD OR FENCE MAY BE REMOVED FROM MACHINERY.**

### 44.0 WELDING

- 44.1 Welding sets shall be in good condition, properly maintained and earthed.
- 44.2 Isolation switches on welding sets shall be readily accessible.
- 44.3 Terminals and live components shall be adequately protected.
- 44.4 Cables shall be frequently inspected to ensure the insulation is intact.
- 44.5 Damaged cables or electrical holders shall be properly repaired or replaced.
- 44.6 The welding return cable shall be secured onto the work piece. If this is not practical it shall be as near as possible.
- 44.7 Proper cable connectors shall be used when connecting runs of cables.
- 44.8 Welders shall wear:
- Face and eye protection with correct grade of filter.
  - Welder's gauntlets.
  - Long sleeved flame retardant overalls.

Welders shall wear safety helmets at all times, except whilst welding, when it is agreed as impractical and written permission is granted by OWNER/CONSULTANT, subject to mitigation of hazard, i.e., no work overhead, or shielded from falling objects.

- 44.9 Welding areas should whenever possible be screened off using flame retardant blanket or other suitable material. All combustible materials must be cleared from the vicinity of all welding operations.
- 44.10 Asbestos material shall not be used on the project.
- 44.11 Electric Arc Welding equipment and accessories shall conform to Latest Engineering Standards.
- 44.12 Fire extinguishers must be provided and kept adjacent to any welding or cutting activity.

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#### 45.0 ABRASIVE WHEELS

- 45.1 Contractors must ensure that any of their employees authorized to change Abrasive Wheels have attended an approved course of training and have been appointed in writing.
- 45.2 Details of each employee trained must be entered in the training register kept on site. Contractors must produce certificates and registers on request.
- 45.3 Machines used to drive Abrasive Wheels must be in good condition and properly guarded.
- 45.4 Pedestal or bench mounted grinders must have an emergency stop button and be fitted with a properly adjusted tool rest and guard.
- 45.5 All hand held grinders shall have a “Dead Man” switch and appropriate guards fitted.
- 45.6 The use of hand held angle grinders over 115mm shall only be permitted for specific tasks, subject to Owner's / Consultant's approval.

#### 46.0 USE OF GAS AND OXYGEN EQUIPMENT

- 46.1 Compressed gas cylinders shall:
- Be in good condition and not suffering from corrosion.
  - Be properly colour coded (reference should be made to National Standards).
  - Be individually identified.

Hoses shall be properly colour coded to the internationally recognized standard for the gas being used, in good condition and fitted with hose connectors attached by permanent clips.

Check valves and flashback arrestors must be used on both hoses at all times.

- 46.2 Users shall check the equipment for perished, damaged hoses, regulators, and pressure gauges, etc. Defects must be reported to their supervisors and faulty equipment must be replaced.
- 46.3 When on site, cylinders must be in trolleys or secured in an upright position at all times. A bottle key shall be kept with cylinders in use.
- 46.4 Stored oxygen and fuel gas cylinders shall be kept separate with minimum separation distance of 5m. Cylinders must never be stored or used in a horizontal position cylinders must be secured in an upright position. Empty cylinders must also be separated from full cylinders. Cylinders shall be stored in lockable open mesh bottle cages.
- 46.5 All gas cylinders must be handled with care and they must not be misused or abused. They must be properly shut off when not in use and safety caps must be fitted when being moved.
- 46.6 Great care must be taken to ensure that gas equipment, including hoses, are not allowed to cause obstruction of roadways, walkways, manholes, ladders or other means of access where they can cause hazards or be damaged. Hoses not in use should be coiled up and put in a safe place. Hoses should whenever possible be supported off the ground.

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46.7 Where any operation involves the use of gas and oxygen equipment in enclosed or semi-enclosed spaces, Contractors' supervision must carry out frequent checks to ensure these procedures are complied with.

46.8 During meal breaks and at stopping times, hoses and equipment must be removed from confined spaces or excavations. Oxygen or gas cylinders must not be taken into confined spaces for use or storage.

46.9 No modification to tanks or drums which have contained flammable liquid shall be undertaken at the site.

#### **47.0 ABRASIVE AIR BLAST CLEANIN**

47.1 Blast cleaning shall be carried out in an enclosed designated area.

Provision shall be made to prevent the spread of grit and dust out of the blast area and to collect and dispose of the spoil to an approved location.

47.2 The blast cleaning area shall be indicated by prominent warning signs.

47.3 Only approved abrasives having no free silica shall be used.

47.4 Personnel involved in the actual blasting of material shall be protected by a positive pressure, blast hood, meeting approved standards and providing both respiratory and eye protection, with breathing air supplied via a suitable filter.

47.5 The nozzle shall be fitted with a properly functioning dead man's handle, and anti-static abrasive blast hoses. It is required that all equipment be grounded and checked for ground potential

47.6 A standby man shall stay by the blast pot.

#### **48.0 COMPRESSED AIR**

48.1 All air receivers and compressors shall be in good condition and properly maintained.

48.2 Air receivers shall be individually identified and marked with their safe working pressure.

48.3 Air receivers shall be accompanied by a valid test certificate which shall be kept on site by the Contractor and shown to OWNER/CONSULTANT before bringing the vessel onto site.

48.4 All air receivers must be fitted with a properly set pressure relief valve.

48.5 Air receivers shall be examined and the pressure relief valve tested by an independent examiner at yearly intervals.

48.6 There shall be a register of all air receivers containing:

- Individual identification numbers.
- Dates of independent inspections.
- Name and signature of independent examiner.

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- Rates safe working pressure.
- Pressure at which pressure relief valve lifted shall be kept on site by the Contractor along with all current certification.

48.7 The requirements inclusive also apply to compressor mounted air receivers.

48.8 All compressed air fittings shall be wired and/or restrained to prevent them from whipping should the coupling separate.

48.9 Only hose clamps designed for compressed air service shall be used. Worm drive (Jubilee) clips are not acceptable.

#### **COMPRESSED AIR MUST NEVER BE USED FOR CLEANING CLOTHES.**

48.10 Nozzles used for air blowing must be fitted with a "Dead Man" valve.

#### **49.0 MOBILE PHONES AND PAGERS**

49.1 Radios, personal CD and tape players are not allowed in the construction areas.

49.2 Mobile phones and pagers are prohibited in the designated construction areas by any hands-on personnel. External to the designated construction areas, providing it does not detract the user from any safety requirements and the user is stationary, then mobile phones and pagers may be used. **Other uses of this equipment will be at the discretion of OWNER/CONSULTANT.**

#### **50.0 RADIOGRAPHY/NDT**

50.1 Contractors who carry out radiography/NDT on the site must comply with safe systems of work. In particular, they MUST ensure that:

- Radiography areas are clearly marked using barrier tapes, notices and flashing lights.
- Audible warning (horns) must be sounded before a source is exposed.
- Only Classified Workers are engaged in radiography work.
- All other personnel are clear of the area before radiography takes place.
- Radiography work is supervised by a Qualified Radiological Protection Supervisor. Such supervisors must be nominated in writing and notified to OWNER/CONSULTANT.
- Any incident which may have resulted in over-exposure of any personnel is brought to the attention of OWNER/CONSULTANT for investigation.
- They have a written emergency procedure to be followed in the event of loss of an isotope or damage or malfunction of associated equipment. This procedure must be submitted to OWNER/CONSULTANT for approval before commencement.
- A certified meter is available on site.
- Radiography is carried out at the times agreed with OWNER/CONSULTANT normally this will only be during silent hours. OWNER/CONSULTANT requires twenty-four hours notice of such planned work.

50.2 Contractors who are not involved in radiography work must ensure that their employees observe warning notices, alarms and barriers in use where such work is being carried out.

50.3 Contractors must ensure that statutory notification is made to the authorities of radiography works.

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50.4 Disposal of spent radioactive sources shall be agreed with OWNER/CONSULTANT.

#### **51.0 WORKING OVER WATER/DIVING OPERATIONS**

51.1 The Contractor shall provide a buoyancy aid to any employee working over (or near) water where there is a likelihood of falling in.

The Contractor shall also supply a sufficient number of life buoys to be permanently located at the point(s) of danger. The life buoys shall be attached to a throwing line.

Where rescue of a person falling into the water may be difficult, OWNER/CONSULTANT may require the Contractor to supply a standby boat, crewed by a competent boatman trained in rescue and resuscitation techniques.

51.2 Diving operations may only be carried out using approved specialist diving contractors, employing certified commercial divers, and upon acceptance by OWNER/CONSULTANT of their Health, Safety and Environment plan and method statements (Diving Rules).

#### **52.0 ASBESTOS**

52.1 Only certified Contractors are allowed to handle asbestos.

#### **53.0 IMPROVEMENT AND PROHIBITION NOTICES**

53.1 In the event of an Improvement or Prohibition Notice being served by an Inspector, the OWNER/CONSULTANT Senior Representative must be notified immediately and the Contractor shall comply with the terms of such Notice immediately.

#### **54.0 CARTRIDGE OPERATED FIXING TOOLS**

The use of Cartridge Operated tools shall only be permitted with the express permission of OWNER/CONSULTANT, subject to an approved method statement and risk assessment, and use only by competent, trained operators).

#### **55.0 SITE ESTABLISHMENT AND AMENITIES**

55.1 Details of temporary services to be provided by Contractor or as Per Technical portion of ITB.

#### **56.0 ACCOMMODATION**

56.1 An area will be allocated for temporary site establishment facilities/services.

56.2 When required by the Contract, the Contractor shall provide and maintain (including de-watering when necessary) a suitable level and hardcore surface in the area allocated for temporary buildings such as offices, stores, workshops, mess huts and a stores compound.

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56.3 When required by the Contract, the Contractor shall provide all site offices, stores facilities, workshops and mess huts for the accommodation of staff/site personnel. Proposals for the Contractor's temporary buildings shall be submitted to OWNER/CONSULTANT for approval with their tender.

#### 56.4 **Storage in Permanent Buildings**

No Plant, Contractor's Equipment or Construction Aids shall be stored in any permanent building without first obtaining the written permission of OWNER/CONSULTANT. Such permission will not relieve the Contractor of the obligation to protect the building from damage whilst used as a store. If permission to use the building is refused by OWNER/CONSULTANT, the Contractor shall provide alternative storage facilities at no additional cost to OWNER/CONSULTANT.

#### 56.5 **Sanitary Facilities**

All toilets and washing facilities shall be provided by the Contractor.  
The supply and installation of necessary water sewage/drainage pipe work, pits, etc, for the facilities and the regular emptying and servicing are the responsibility of the Contractor.

#### 56.6 **Canteen**

The Contractor must provide mess-huts for his employees and arrange any canteen facilities required for his employees and those of any others employed by him in connection with the Work.

### 57.0 **TEMPORARY SERVICES**

#### 57.1 **Telephone, Facsimile, etc**

Arrangements for the provision of telephones, computer modems and/or facsimile facilities shall be made directly with providers of such facilities by the Contractor.

#### 57.2 **Electricity**

If under the contract the Contractor is responsible for providing electricity for the site establishment amenities and working area(s), the Contractor shall ascertain the type, location and available spare capacity of the electrical point(s) of supply and provide cable, connections, isolating switches and earth leakage protection of approved specification.

If the Contractor's requirements for temporary electrical supplies exceed those agreed and render the available service inadequate, the Contractor shall provide the additional requirements at no extra cost to OWNER/CONSULTANT.

Electrical installations including all cables, temporary connections, wandering leads and all electrical facilities and/or equipment required for the execution of the Works shall be properly installed and maintained by the Contractor.

Temporary electrical installations must comply with all appropriate statutory requirements, the latest edition of the Institution of Electrical Engineers Regulations, COP for Distribution of Electricity on Construction and Building Sites and Electrical Safety on Construction Sites.



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Electrical equipment and installation shall at all times be subject to inspection and approval by OWNER/CONSULTANT but this shall not relieve the Installer/User of their responsibilities for the safety of the system.

Electrical equipment or cables forming part of the permanent installation shall not be used by the Contractor for temporary services.

Temporary buildings shall have an external isolating switch.

The Contractor shall supply, install and maintain any temporary workface lighting.

### 57.3 **Water**

Supply of potable water for drinking and raw water for washing/toilet facilities, mixing concrete, hydrostatic testing and other construction purposes shall be in Contractor's scope. The Contractor shall ascertain the location of the supply point and shall provide and install any temporary pipe work necessary for the provision, use and disposal of such water.

## 58.0 **DISCHARGES INTO THE INTERNAL AND EXTERNAL DRAINAGE SYSTEMS, LAND AND CONSTRUCTION AREAS**

58.1 All proposed controlled discharges into the site drainage systems shall be agreed with OWNER/CONSULTANT.

58.2 Any water discharged on existing roads, hard shoulders or drainage systems shall first pass through a filtering interceptor (which must be regularly cleaned) to prevent the discharge of sludge or solids.

58.3 Any damage to the Works caused by prolonged or excessive pumping and any damage or nuisance arising out of pumping operations shall be the liability of the Contractor.

58.4 Subsequent to filling with water and testing of any part of the Works for hydraulic testing, the Contractor shall be responsible for safe disposal of the water, and shall ensure that the rate of discharge is controlled and kept within the capabilities of any drainage system utilized.

58.5 The Contractor shall provide all requisite equipment and materials to ensure that all drains, rivers, streams or waterways are safeguarded against pollution.

## 59.0 **MAINTENANCE OF ROADS AND DRAINS**

59.1 Existing roads, road gullies and drains shall be inspected by OWNER/CONSULTANT and the Contractor prior to work commencing. A record of this inspection shall be compiled and on the completion of the Works, a further inspection will be carried out and any necessary repairs to road surfaces or cleaning of drains shall be to the Contractor's cost.

59.2 The Contractor shall provide temporary protection to any existing roads to prevent all possibility of damage whatsoever arising from the Works.

59.3 The Contractor shall at all times in the execution of the work maintain all public and site roads in a clean condition to the satisfaction of OWNER/CONSULTANT.

59.4 The Contractor shall immediately remove all mud, earth and debris from road surfaces.

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- 59.5 Track-laying cranes and similar vehicles must not travel on finished roads without written authority from OWNER/CONSULTANT and then only with the use of timber mats or approved precautions to prevent damage to the roads. Timber mats or other approved precautions shall be supplied by the Contractor.

## 60.0 MATERIALS – STORAGE AND CONTROL

- 60.1 The Contractor must give a minimum of twenty-four hours notice of the intention to uplift and transport materials/equipment supplied free-issue from OWNER/CONSULTANT/Client' storage facilities to the point of erection or Contractor's storage facility.

- 60.2 Free-issue materials/equipment furnished by OWNER/CONSULTANT shall be accepted by the Contractor and become the responsibility of the Contractor until acceptance of the Works. Any damage caused to free-issue materials after acceptance shall be repaired or replaced by the Contractor to OWNER/CONSULTANT' satisfaction.

### 60.3 Storage of Petrol, Fuels, Lubricants etc

All fuel and construction materials which may contaminate the site drains, land or watercourses shall be stored in bounded areas. Refueling of plant shall be via bounded bowers. All construction plant in static locations shall have drip trays which shall be cleared daily.

### 60.4 Environmental Impacts

The Contractor shall, prior to commencement of the work, present to OWNER/CONSULTANT for their approval a register of environmental impacts that necessarily arise from their works.

Each identified environmental impact shall be accompanied by an individual Risk Assessment, clearly showing the reduction measures put in place to ensure mitigation of residual risk.

## 61.0 PENALTY

The Contractor shall adhere consistently to all provisions of HSE requirements. In case of noncompliances and also for repeated failure in implementation of any of the HSE provisions, Consultant/Owner may impose stoppage of work without any cost & time implication to the Owner and/or impose a suitable penalty.

The amount of penalty shall be limited to 0.5 % (Zero decimal five percent) of the contract value.

The amount of penalty applicable for the Contractor on different types of HSE violations is as below.

- For not using personal protective equipment (Helmet, Shoes, Goggles, Gloves, Full body harness, Face shield, Boiler suit, etc.) **Rs 500/- per day/ Item / Person.**
- Working without Work Permit/Clearance **Rs 20000/- per occasion.**



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3. Execution of work without deployment of requisite field engineer / supervisor at work spot **Rs. 5000/- per violation per day.**
4. Unsafe electrical practices (not installing ELCB, using poor joints of cables, using naked wire without top plug into socket, laying wire/cables on the roads, electrical jobs by incompetent person, etc.) **Rs 10000/- per item per day.**
5. Working at height without full body harness, using non-standard/ rejected scaffolding and not arranging fall protection arrangement as required, like handrails, life-lines, Safety Nets etc. **Rs. 10000/- per case per day.**
6. Unsafe handling of compressed gas cylinders (No trolley, jubilee clips double gauge regulator, and not keeping cylinders vertical during storage/handling, not using safety cap of cylinder). **Rs 500/- per item per day.**
7. Use of domestic LPG for cutting purpose / not using flash back arresters on both the hoses/tubes on both ends. **Rs. 3000/- per occasion.**
8. No fencing/barricading of excavated areas /trenches. **Rs. 3000/- per occasion.**
9. Not providing shoring/strutting/proper slope and not keeping the excavated earth at least 1.5M away from excavated area. **Rs. 5,000/- per occasion.**
10. Non display of scaffold tags, caution boards, list of hospitals, emergency services available at work locations. **Rs. 1000/- per occasion per day**
11. Traffic rules violations like over speeding of vehicles, rash driving, talking on mobile phones during vehicle driving, wrong parking, not using seat belts, vehicles not fitted with reverse horn / warning alarms / flicker lamps during foggy weather. **Rs. 2000/- per occasion per day**
12. Absence of Contractor's RCM/SIC or his nominated representative (prior approval must be taken for each meeting for nomination) from site HSE meetings whenever called by Consultant/Owner & failure to nominate his immediate deputy (in the site organ gram) for such HSE meetings. **Rs 10000/- per meeting.**
13. Failure to maintain HSE records by Contractor Safety personnel, in line with approved HSE Plan/Procedures/Contract specifications. **Rs 10000/- per month.**
14. Failure to conduct daily site safety inspection (by Contractor's safety engineers/safety officers), internal HSE meeting, internal HSE Awareness/Motivation Program, Site HSE Training and HSE audit at predefined frequencies (as approved in HSE Plan). **Rs. 10000/- per occasion.**
15. Failure to submit the monthly HSE report by 5th of subsequent month to Project's Engineer-in-Charge /Owner **Rs. 10000/- per occasion and Rs. 1000/- per day of further delay.**
16. Poor House Keeping **Rs. 5000/- per occasion per subject**
17. Failure to report & follow up accident (including Near Miss) reporting system within specific timeframe. **Rs. 20000/- per occasion**

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18. Degradation of environment (not confining toxic spills, spilling oil/lubricants onto ground).Rs10000/- per occasion
19. Not medically examining the workers before allowing them to work at height / to work in confined space / to work in shot-blasting / to work for painting / to work in bitumen or asphalt works, not providing ear muffs while allowing them to work in noise polluted areas, made them to work in air polluted areas without respiratory protective devices,etc. Rs 5000/- per occasion per worker.
20. Violation of any other safety condition as per job HSE plan / work permit and HSE conditions of contract (e.g. using crowbar on cable trenches, improper welding booth, not keeping fire extinguisher ready at hot work site, unsafe rigging practices, non-availability of First-Aid box at site, not using hood with respiratory devices by blaster for shot/grit blasting, etc.) Rs. 5000/- per occasion.
21. Failure to carry-out Safety audit in time (internal & external), close-out of identified shortfalls of Observations of Safety Aspects(OSA),etc. Rs. 20,000/- per occasion.
22. Carrying out sand blasting instead of grit/shot blasting Rs. 50,000/- per day.
23. Failure to deploy adequately qualified and competent Safety Officer Rs. 10000/- per day per Officer.
24. Utilization of hydra/ back-hoe loader for material shifting or any other unauthorized /unsafe lifting works Rs 25,000/- per occasion.
25. Any violation not covered above to be decided by Consultant/Owner.
26. Any physical injury - maximum of Rs.2,00,000 per injury
27. Fatal accident - Rs. 25,00,000 per fatality

**62.0 FOLLOWING SHALL BE APPLICABLE FOR MANDATORY MEDICAL EXAMINATION OF CONTRACTOR WORKERS BEFORE DEPLOYMENT AT WORK SITE:**

Medical examination will be in the scope of the contractors.

Medical examination to be conducted by a doctor with minimum MBBS qualification, having registration number for practicing.

Certificate issued should have endorsement on the photo & clearly mention general health/fitness of the candidate to carryout work inside plant, including eye sight, Vertigo, BP,Heart, convulsion problem etc.

Certificate of fitness is to be issued on letter head of doctor and to be produced with application for photo Gate pass to the E-I-C for the job.

Validity of medical certificate will be for one year from the date of issuance.

Gate pass issued by CISF will bear "Medically Fit" stamp based on the E-I-C's recommendation.

Accordingly, this shall be treated as part of the tender.

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### MEDICAL CERTIFICATE

**Affix latest PHOTO  
impression of the  
workmen half  
covering the  
photo.**

#### Form for Medical Check Up for the Workman engaged by the Contractor

Certified that I, \_\_\_\_\_ have examined Shri \_\_\_\_\_ Age \_\_\_\_\_

who has signed / thumb impression above on the photo in my presence. The details of his examination

as required are given in the enclosed medical examination report. I certify that all clinical and pathological tests were done in my hospital/dispensary under my instructions. General and physical examinations of Shri \_\_\_\_\_ do not reveal any abnormality. He does not suffer from any

acute / chronic disease or any contagious or infectious disease. He is medically fit to work inside plant. He is free from Vertigo, Epilepsy or Fits, general giddiness and height related disease. His B.P.Pulse, Eyesight etc. are normal.

In my opinion, Shri \_\_\_\_\_ is physically and mentally fit for undertaking physical labour inside the plant.

Sign \_\_\_\_\_

Date: \_\_\_\_\_

#### Signature and Rubber stamp of medical practitioner with name

Note: This certificate is to be given on the letterhead of the registered medical practitioner who is possessing MBBS qualification as recognized by the Indian medical council. Below the signature, the

rubber stamp of the medical practitioner should be affixed. The letterhead normally should contain the following:

- 1) Name of the Medical practitioner:
- 2) Qualifications:
- 3) Registration Number:
- 4) Designation:
- 5) Address:

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### 63.0 ADDITIONAL SAFETY REQUIREMENT

#### A. Strict implementation of IS marked safety helmets & IS/CE marked safety shoes for contract personnel

All the contractors working inside the plant shall ensure that their supervisors/labourers compulsorily wear IS marked safety helmets & IS/CE marked safety shoes while entering plant premises. No contract personnel shall be allowed inside battery area without wearing IS marked safety helmets & IS/CE marked safety shoes. All EIC's/site engineers and F&S department shall sensitize and spread awareness among the contract personnel.

**Name of Tenderer:** .....

**Signature & Seal of Tenderer:** .....

SECTION-4.0  
SCHEDULE OF RATES (SOR)

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**SCHEDULE OF RATES (SOR)**  
**FOR**  
**BORED CAST-IN-SITU CONCRETE VERTICAL PILES**  
**FOR**  
**NON-LSTK OSBL OF AMMONIA-UREA FERTILIZER**  
**HURL, GORAKHPUR**

1	05.06.18	ISSUED FOR TENDER	VP	SA	UPT
0	03.04.18	ISSUED FOR TENDER	VP	SA	UPT
P	16.03.18	ISSUED FOR REVIEW	VP	SA	UPT
REV	REV DATE	PURPOSE	PREPD	REVWD	APPD

## PREAMBLE TO SCHEDULE OF RATES



### 1.0 GENERAL

- 1.1. The Tenderers shall note that the quantities of the different Items, as given in the "Schedule of Rates" are tentative and are subject to variation and they shall not be entitled to claim any higher rate or compensation on this account. Owner / Consultant reserves the right to change / modify the size and type of sections at any time. Owner / Consultant does not guarantee work under each item of the Schedule of Quantities. The total quantum of work may vary up to  $\pm 25\%$  on either side and nothing extra will be paid on this account. Quantum of individual item may vary to any extent.
- 1.2. The Tenderers shall be fully responsible for the correct setting out and execution of the work in accordance with approved drawings which will be supplied to them progressively. All tools, tackles, construction equipments etc., required for the successful execution / construction of the complete work, shall be responsibility of the Tenderers.
- 1.3. The quantities given in the "Schedule of Rates" are approximate and are given only for the guidance for quoting rates. Payments on bills shall, however, be made on actual measurements of quantities of work done as per approved drawings.
- 1.4. The rates to be inserted in the "Schedule of Rates" are to be inclusive of the value of the work described under several items including all costs and expenses which may be required for the construction of the work described together with all taxes (excluding GST), general risks, liabilities and obligations such as temporary buildings / hutments, fencing, watching, lighting, insurance, labour regulations, indemnity, maintenance and the like. The prices shall be inclusive of all labours, materials, tools, plants, equipment, hoists, tackles, scaffoldings, the sundries, etc., as may be necessary for the completion of the work in all respects.
- 1.5. No work shall be undertaken at site until detailed approved drawings have been issued by the Owner / Consultant in writing. Subsequent revision in the drawings which become necessary shall be incorporated and revised drawings issued to the Contractor who shall execute the work as per the latest revised drawings. Nothing extra will be paid on this account and no claim whatsoever will be entertained on this account. The Owner / Consultant reserves to themselves the right to modify / revise / alter etc. in any drawing supplied to the Contractor.
- 1.6. Any construction done before final approval of the drawings shall be the Contractor's responsibility.
- 1.7. In case of any discrepancy between the description of items given in the Schedule of Rates and Specifications / Scope of Work and other documents, the condition mentioned at Clause no. 35 (Priority of Documents) shall prevail.
- 1.8. The term "Design and drawings" mentioned in the description of Items in the "Schedule of Rates" means the detailed approved design drawings marked "Good for Construction".
- 1.9. The work "As described", "As shown", "As directed" or "As approved", "As mentioned" in the description of Items shall mean as directed in design or detailed drawings and as directed by the Engineer-in-Charge
- 1.10. The Owner shall furnish the Contractor with only reference points of the job site and a level bench mark, and the Contractor shall at his own cost and initiative, set out the works to the satisfaction of the Engineer-in-Charge but shall solely be responsible for the accuracy of

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such setting up notwithstanding satisfaction as aforesaid of the Engineer-in-Charge or any other assistance rendered by the Engineer-in-Charge for the purpose.

- 1.11. The Contractor shall provide, fix and be responsible for the maintenance of all stakes, templates, level marks, profiles and the like and shall take all precautions necessary to prevent their removal or disturbance, and shall be responsible for the consequence of such removal or disturbance and for their efficient and timely reinstatement. The Contractor shall also be responsible for the maintenance of all survey marks, boundary marks, distance marks and centre line marks, whether existing or supplied / fixed by the Contractor
- 1.12. Before commencing the work, the Contractor shall at his own cost and initiative provide all necessary references, level posts, pegs, bamboos, flags, ranging rods, strings and other materials for proper layout of the work in accordance with the scheme for fixing bench marks acceptable to the Engineer-in-Charge. The centre of longitudinal or face line and cross line shall be marked by means of small masonry pillars. Each pillar shall have distinct mark at the center to enable a TOTAL STATION to be set over it. No work shall be started until all these points are approved by the Engineer-in-Charge in writing.  
  
But such approval shall not relieve the Contractor of any of his responsibilities in respect of the adequacy or accuracy, thereof. The Contractor shall also provide all labour, material and other facilities necessary for the proper checking of layout and inspection of the points during construction.
- 1.13. Pillars bearing geodetic marks located at the site / unit of works under construction should be protected and fenced by the Contractor.
- 1.14. On completion of works, the Contractor must submit to the Engineer-in-Charge the geodetic documents according to which the work was carried out.
- 1.15. The Contractor shall be exclusively responsible for the provision and maintenance of horizontal and vertical alignments and levels and for the correctness of every part of the work in accordance there with and shall at his own cost rectify any errors or imperfections therein.
- 1.16. The Contractor shall at all times during the progress and continuance of the works be responsible for and effectively maintain and uphold in good, substantial, sound and perfect condition of all / and every part of works and shall make good from time to time and at all times as often as the Engineer-in-Charge shall require any damage or defect that may during the above period arise in or be any way connected with works.
- 1.17. The portion which is under HOLD shown in the approved drawing or the portion which would be brought under HOLD during execution on account of coordinating different activities of other working agencies shall be taken up by the Contractor to execution only after the said HOLD is withdrawn. The Contractor on this account shall not be entitled to claim for any compensation.
- 1.18. The Contractor shall maintain adequate drainage facilities and proper approach at the work site at all times during the execution of the work.
- 1.19. No compensation shall be made by the Owner / Consultant for any damage done by rain or traffic during the execution of the work.
- 1.20. The Contractor shall afford all reasonable facilities such as scaffolding etc., and cooperation to the various other agencies and Contractors, for services not included in this contract, who may be working on the site simultaneously so that entire work can proceed smoothly and simultaneously to a successful completion. The Tenderer must take all the aforesaid factors into consideration while quoting his rates. Nothing extra shall be paid on any ground out of or relating to the aforesaid factors.



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- 1.21. For details of works, materials and workmanship, attention is invited to the "Schedule of Rates", Scope Drawings, Special Conditions of Contract, Materials and Job Specifications etc. and the Tenderers must quote the rates keeping in full view the requirement of the said documents.
- 1.22. Except otherwise clearly stated, CPWD Specifications with Correction Slips(latest) shall be followed in all Civil, Structural and other allied Works and in absence of CPWD Specifications for any work, relevant Indian Standard codes of practices (latest) shall be followed. Where there are no Specifications available for any work either in CPWD Specifications or in IS Codes of practices, the work shall be carried out as per the direction of Engineer-in-Charge.
- 1.23. The following notations have been used throughout the "Schedule of Rates" and Materials and job Specifications:

1.	Cu.M	Cubic Meter
2.	Sq.M	Square Meter
3.	M.	Meter
4.	MM.	Millimeter
5.	CM. / CMs.	Centimeter / Centimeters
6.	No. / Nos.	Number / Numbers
7.	MT.	Metric Tonne
8.	Kg.	Kilogram
9.	RCC	Reinforced Cement Concrete
10.	PCC	Plain Cement Concrete

- 1.24. The quoted rates shall be applicable for all heights, depths etc. except otherwise clearly stated in the description of items and nothing extra shall be paid to the contractor on this account.
- 1.25. Description of items and mode of measurement for payment indicated herein shall override those given elsewhere if these are at variance.
- 1.26. Any materials / accessories / fittings etc. which may not be specifically mentioned in the description of items but which are normally used or necessary are to be provided by the contractor without any extra cost to Owner / Consultant and the work must be completed in all respects.
- 1.27. Materials: The procurement of all materials shall be the responsibility of the contractor. The quality of the materials procured by the contractor shall be subject to the approval of Engineer-in-Charge or his authorized representative before the materials are allowed to be used in the works. All the materials to be procured by the contractor shall be in conformity with the approved list of manufacturers which is listed below:

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**A) CEMENT**

- I. ACC
- II. J K CEMENT
- III. BINANI CEMENT
- IV. JP CEMENT
- V. GUJARAT AMBUJA
- VI. ALTRA TECH CEMENT
- VII. BIRLA CORPN. LTD.
- VIII. GRASIM
- IX. SHREE

**B) REINFORCEMENT STEEL**

- I. SAIL
- II. TATA STEEL
- III. RINL



**C) CONCRETE ADMIXTURES**

- I. FOSROC
- II. SIKA



**D) LABORATORY FOR MATERIAL TESTING AND DESIGN MIX**

- I. IIT, DELHI
- II. SHRIRAM TEST HOUSE, DELHI
- III. NABL CERTIFIED LABORATORY TO BE APPROVED BY OWNER/CONSULTANT



- 1.28. Before start of work, testing of all raw materials like aggregate, sand, water etc. to be done as per IS code requirement at approved outside laboratory. Further, during execution, site testing of all construction materials to be done as per codal requirement. Tests for all civil works (during and post concreting) to be carried out in accordance with IS code.

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SR.NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (in Rs.)
				(in Fig.)	(in Words)	
<b>A</b>	<b>PILING WORKS:</b>					
(a)	All piles shall be concreted to a level at least 0.6m above cut-off levels of the pile shall correspond to those given in the pile layout drawings.					
(b)	The length of the pile shall be measured from cut- off level to the tip of pile. The additional length of 0.6 M of pile above cut-off level cast as per note "a" above shall not be measured and paid for. Bidders should quote rate of item no. A-1 accordingly					
(c)	Empty boring for pile from ground level to the cut-off level of pile shall not be measured and paid for.					
A-01	Boring, providing and installing bored cast-in-situ R.C.C. piles using cement concrete of grade M30 with Ordinary Portland Cement (OPC) or Portland Slag Cement (PSC) or Portland Pozzolona Cement (PPC), with minimum cement content of 400 kg/cu.m, by approved technique through all types of subsoil strata using coarse aggregates of 20 mm and down size to carry a safe working load not less than that specified in the drawing, excluding the cost of steel reinforcement but including the cost of boring with casing and/or bentonite					

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SR.NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (in Rs.)
				(in Fig.)	(in Words)	
	<p>solution for maintaining borehole side, tremie concreting, supply of necessary materials and labours and carrying out all ancillary works, disposal of surplus materials including earth/muck for all leads and lifts within factory premises, shifting of plant and equipment from one pile location to other, all complete as per drawing and direction of Engineer-in-charge.</p> <p>(The rate of this item shall include charges for mobilisation of required no. of power operated mechanical piling rigs including all ancillary equipments, tools, tackles etc. all complete necessary to install Bored cast-in-situ R.C.C. piles at site. No extra payment shall be made on this account.)</p> <p>Length of pile up to 17.5± 2.0 meters below cut-off level.</p>					
(a)	450mm dia	RM	52500			
(b)	600mm dia	RM	23500			
(c)	750mm dia	RM	11750			
A-02	Supplying, cutting, cleaning, straightening, bending, hoisting and placing in position and binding with 18 SWG annealed wire, reinforcement bar of high yield strength deformed bars Fe500D conforming to IS:1786 with minimum yield strength of 500 N/sq,mm for all piling works including all necessary handling	MT	1750			

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SR.NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (in Rs.)
				(in Fig.)	(in Words)	
	at all heights & depth.					
A-03	Carrying out initial load tests to two and half times the allowable load on the piles as per IS: 2911, Part-IV including all the necessary arrangements such as platform, kentledge, jacks, measuring devices etc. all complete.					
(a)	450mm dia					
	Vertical load capacity : 37.0 Te	Nos.	7			
	Uplift capacity : 29.0 Te	Nos.	4			
	Lateral load capacity : 4.0Te	Nos.	4			
(b)	600mm dia					
	Vertical load capacity : 62.0 Te	Nos.	2			
	Uplift capacity : 47.0 Te	Nos.	2			
	Lateral load capacity : 6.0Te	Nos.	2			
(c)	750mm dia					
	Vertical load capacity : 101.0 Te	Nos.	2			
	Uplift capacity : 58.0 Te	Nos.	2			
	Lateral load capacity : 10.0Te	Nos.	2			

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SR.NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (in Rs.)
				(in Fig.)	(in Words)	
A-04	Carrying out routine load tests to one and a half times the allowable load on the piles as per IS:2911, Part-IV including all the necessary arrangements such as platform, kentledge, jacks, measuring devices etc. all complete.					
(a)	450mm dia					
	Vertical load capacity : 37.0 Te	Nos.	24			
	Uplift capacity : 29.0 Te	Nos.	4			
	Lateral load capacity : 4.0Te	Nos.	17			
(b)	600mm dia					
	Vertical load capacity : 62.0 Te	Nos.	9			
	Uplift capacity : 47.0 Te	Nos.	3			
	Lateral load capacity : 6.0Te	Nos.	5			
(c)	750mm dia					
	Vertical load capacity : 101.0 Te	Nos.	5			
	Uplift capacity : 58.0 Te	Nos.	2			
	Lateral load capacity : 10.0Te	Nos.	3			
A-05	Integrity testing of any dia of Pile using Low Strain/ Sonic Integrity Test/ Sonic Echo Test	Nos.	5020			

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SR.NO.	DESCRIPTION OF ITEMS	UNIT	QTY	RATE		AMOUNT (in Rs.)
				(in Fig.)	(in Words)	
	method in accordance with IS 14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerized equipment and high skill trained personnel for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.					

**TOTAL AMOUNT EXCLUDING GST CHARGES [FOR SL. NO. A-01 TO A-05]**

**Rs.** \_\_\_\_\_

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NIT NO. : PNPM/EM-250/E/G-201

NIT SUBJECT : PILING WORKS FOR BORED CAST-IN-SITU CONCRETE VERTICAL PILES AT GORAKHPUR, U.P.



SUMMARY OF SCHEDULE OF RATES			
S.NO.	ITEM DESCRIPTION	UNIT	VALUE
1.	TOTAL AMOUNT EXCLUDING GST CHARGES [FOR SL. NO. A-01 TO A-05]	INR	
2.	GST RATE AS APPLICABLE (Not Included in S.No.-1 above)	In %	_____ %
3.	TOTAL GST CHARGES (S.No.-1 multiplied by S.No.-2)	INR	
<b>GRAND TOTAL INCLUDING GST CHARGES (SL.NO.1 + SL.NO.3)</b>		INR	

Name of Tenderer :

Signature & Seal of Tenderer :

Place :

Date :

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