

ORIGINAL COPY**TENDERER'S COPY**

TENDER**BHEL NIT NO. : 14708****CIVIL TENDER SCHEDULE NO: 05/13-14****FOR****"Construction OF NEW RESIDENTIAL BUILDINGS IN BHEL TOWNSHIP FOR
BHEL IVP GOINDWAL SAHIB, PUNJAB."****PART I – TECHNICAL BID****BHARAT HEAVY ELECTRICALS LIMITED**

(A Govt. Of India Undertaking)
**INDUSTRIAL VALVES PLANT,
433, INDUSTRIAL COMPLEX
GOINDWAL SAHIB,
DISTT. TARN –TARAN,
PUNJAB, PIN-143422**

CONTRACTOR**ACCEPTING OFFICER (BHEL)**



ISO 9001, ISO 14001
OHSAS 18001 certified

BHARAT HEAVY ELECTRICALS LIMITED
(A Govt. Of India Undertaking)
INDUSTRIAL VALVES PLANT
Plot No. 433, INDUSTRIAL COMPLEX,
GOINDWAL SAHIB, Distt. TARN-TARAN,
PUNJAB- PIN-143422; (INDIA)
Phone: 01859-224621, 224653
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BHEL NIT NO: 14708

CIVIL TENDER SCHEDULE NO: 05/13-14

IMPORTANT NOTE

PURCHASER OF THIS TENDER DOCUMENT IS ADVISED TO CHECK AND ENSURE COMPLETION OF ALL PAGES OF TENDER DOCUMENT AND REPORT ANY DISCREPANCY TIMELY FOR CORRECTIVE ACTION, IF ANY, TO THE ISSUING AUTHORITY BEFORE THE BIDS ARE SUBMITTED. ORIGINAL COPY OF TENDER DOCUMENT COMPLETE IN ALL RESPECTS MUST BE SUBMITTED BACK AS PART OF THE BID WITHOUT WHICH THE SAME IS LIABLE TO BE REJECTED BY BHEL.

THIS TENDER SPECIFICATION ISSUED TO:

M/S-----

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BHEL NIT
NO. 14708

NOTICE INVITING TENDER

{Volume 1 or Part 1 Technical Bid}

Bharat Heavy Electricals Limited
Industrial Valves Plant
Goindwal ,Punjab



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BHARAT HEAVY ELECTRICALS LIMITED
INDUSTRIAL VALVES PLANT
Plot No. 433, INDUSTRIAL COMPLEX
GOINDWAL SAHIB, Distt.TARN-TARAN
PUNJAB- PIN-143422; (INDIA)

REF: BHE: IVP: CIVIL: TENDER/ 05/2013-14

DATE: 27/07/2013

To,

The Tenderers,

Dear Sir/Madam,

SUB: Notice Inviting Tender

Sealed offers in two part bid system are invited from reputed & experienced bidders (meeting PRE QUALIFICATION CRITERIA as mentioned in Annexure-I) for the subject job by the undersigned on the behalf of BHARAT HEAVY ELECTRICALS LIMITED as per the tender document. Following points relevant to the tender may please be noted and complied with.

(1) Salient Features of NIT

S/ NO	ISSUE	DESCRIPTION	
ia	Civil Tender schedule No.	05/13-14	
ib	BHEL NIT No.	14708	
ii	Name of Work	Construction of new residential buildings in BHEL Township for BHEL IVP Goindwal Sahib, Punjab.	
iii	Estimated Value	Rs. 9,72,69,123.00 Excluding the service tax and cost of Free issued material	
iv a	Total Completion Time	12 Months from the Scheduled date of Start of Work	
iv b	LD penalty	LD shall be levied as per Clause 41 of General Conditions of Contract.	
v	DETAILS OF TENDER DOCUMENT		
a	Volume-I	<i>NIT, Instructions to the Tenderers, Documents required to be submitted by Tenderers and conditions of contract.</i>	<i>Applicable</i>
b	Annexure-I of Volume -I	<u>Prequalification Criteria</u>	<i>Applicable</i>
c	Annexure –II of Volume -I	<u>Evaluation norms for prequalified tenderers for acceptance of offer and qualification for Part2 (price bid/RA)</u>	<i>Applicable</i>

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d	Annexure –III of Volume -I	<u>Instructions to the Tenderers and Formats of miscellaneous submittals required from tenderers.</u>	Applicable
e	Annexure –IV of Volume -I	General Conditions of Contract (GCC)	Applicable
f	Annexure –V of Volume -I	Special Conditions of Contract (SCC)	Applicable
g	Annexure –VI of Volume -I	Technical Conditions of Contract (TCC), Technical Specifications and drawings	Applicable
h	Annexure –VII of Volume -1	INTEGRITY PACT (IP)	Applicable
i	Volume-II	Schedule 'A' (price schedule), Schedule 'B', 'C', 'D', 'E'.	Applicable
vi	Issue of Tender Documents	<p>1. <u>Sale from BHEL IVP ,CIVIL DEPARTMENT office at</u> <u>:</u> Start: 27/07/2013; Time: From 09 00 HRS ; Close: 17/08/2013; Time :Up to 17 30 Hrs</p> <p>2. From BHEL website (www.bhel.com/tender.php) Tender documents can however be downloaded from this website till due date of submission</p>	
vii	Due Date , Time & Place of offer submission	<p>Due Date:19/08/2013</p> <p>Due Time: 1400 Hrs.</p> <p>Place : BHEL IVP, GOINDWAL SAHIB, PUNJAB</p> <p><u>To be dropped in tender box placed in Shop Annexe Building , Department of Civil, BHEL IVP Goindwal Sahib</u> <u>Or to be sent through Regd Post/Courier to following address</u> <u>Sr. DGM /Civil</u> BHARAT HEAVY ELECTRICALS LTD 433, INDUSTRIAL COMPLEX Goindwal Sahib, Distt. Tarn-Taran , Punjab PIN- 143422.</p>	
viii	Opening of Tender	<p>Date:19/08/2013</p> <p>Time: 1500 Hrs.</p> <p>Notes: (1) In case the due date of opening of tender becomes a non-working day/Holiday , tenders shall be opened on next working day at the same time at BHEL IVP Goindwal Sahib (2) Bidder may depute representative to witness the opening of tender</p>	

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ix	EMD Amount	<i>Rs. 2,00,000/- through D.D. in favor of BHARAT HEAVY ELECTRICALS LTD., PAYABLE AT GOINDWAL SAHIB, PUNJAB.</i>	<i>Applicable</i>
x	Cost of Tender Document	<i>Rs. 3000/- may be submitted in cash if tender document is purchased from BHEL IVP office otherwise through DD in favor of BHARAT HEAVY ELECTRICALS LTD., PAYABLE AT GOINDWAL SAHIB, PUNJAB.</i>	<i>Applicable</i>
xi	Last Date for seeking clarification	<i>Three days before last date of submission of Tender Document. Along with soft version also, addressing to undersigned & to others as per contact address given below Sr.Engineer/Civil BHEL IVP Goindwal Sahib rks@bhelivp.in , Phone- 09465837653 (or) Sr. DGM/ Head Civil/HR/MM BHEL IVP Goindwal Sahib ts@bhelivp.in , Phone- 09872266884</i>	
xii	Schedule of pre bid discussion (PBD)	<i>NIL</i>	<i>Not Applicable</i>
xiii	Integrity pact & detail of independent external monitor (IEM)	<i>This integrity pact as enclosed in annexure VII is being issued as part of the Tender documents and shall be returned by the bidder along with Techno-commercial bid duly filled, signed and stamped by the authorized signatory who signs the bid. Only those bidders who have entered into such an IP with BHEL shall be considered qualified to participate in the bidding. Entering into this pact shall be a preliminary qualification. Other detail is given in clause 15 of this NIT.</i>	<i>Applicable</i>
xiv	latest updates	<i>Latest updates on the important dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Errata, Modifications, Revisions, etc to Tender Specifications will be hosted in BHEL webpage (www.bhel.com) and not in the newspapers. Bidders to keep themselves updated with all such information</i>	

- (2) The offer shall be submitted as per the instructions of tender document and as detailed in this NIT. Bidders to note specifically that all pages of tender document, including these NIT pages of this particular tender together with subsequent correspondences shall be submitted by them, duly signed & stamped on each page, as part of offer. **Rates/Price including discounts/rebates, if any, mentioned anywhere/in any form in the techno- commercial offer other than the Price Bid, and shall not be entertained.**
- (3) Unless specifically stated otherwise, bidder shall remit cost of tender as specified S/n (x) of (1) above in the form of Demand Draft drawn in favor of Bharat Heavy Electricals Ltd, payable at Goindwal Sahib, Punjab issuing the Tender, along with techno-commercial offer. Bidder may also choose to deposit the Tender document cost by cash at the Cash Office as stated above against sl no vi of 1, on any working day; and in such case copy of Cash receipt is to be enclosed with the Techno Commercial offer. Sale of tender

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Documents shall not take place on National Holidays, holidays declared by Central or State Governments and BHEL IVP at Goindwal and Sundays.

- (4) Unless specifically stated otherwise, bidder shall deposit EMD of amount as specified in S/n (ix) of (1) above through Demand Draft in favor of Bharat Heavy Electricals Ltd, payable at Goindwal Sahib, Punjab.
- Micro and Small Enterprises (MSEs) are exempted from paying of EMD and Tender document Cost provided they are 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 any other as per "Micro Small and Medium Enterprises Development Act, 2006". They will have to submit registration certificate along with their tender.
- (5) **Procedure for Submission of Tenders:** The Tenderers must submit their Tenders to Officer inviting Tender, as detailed below:
- PART-I consisting of PART-I A (Techno Commercial Bid) & PART-I B (EMD/COSTofTENDER) in two separate sealed and super scribed envelopes (ENVELOPE-I & ENVELOPE-II)
 - PART-II (Price Bid) – in sealed and super scribed envelope (ENVELOPE-III)
- (6) The contents for ENVELOPES and the superscription for each sealed cover/Envelope are as given below.
(All pages to be signed and stamped)

Sl no	Description
<u>Part-I A</u>	
	<u>ENVELOPE – I</u> <u>SUPER SCRIBED AS PART-I (TECHNO COMMERCIAL BID)</u> With following detail : BHEL NIT NO. NAME OF WORK: DUE DATE OF SUBMISSION: NAME & ADDRESS OF TENDERER:
	<u>Following documents are to be enclosed /placed in this Envelope I</u>
i.	Covering letter/Offer forwarding letter of Tenderer.
ii.	Integrity pact (IP) duly filled, signed and stamped by the authorized signatory who signs the bid.
iii.	Duly filled-in 'No Deviation Certificate' as per prescribed format to be placed after document under sl no (i) above. Note: (a) In case of any deviation, the same should be submitted separately for technical & commercial parts, indicating respective clauses of tender against which deviation is taken by bidder. The list of such deviation shall be placed after document under sl no (i) above. It shall be specifically noted that deviation recorded elsewhere shall not be entertained. (b)BHEL reserves the right to accept/reject the deviations without assigning any reasons, and BHEL decision is final and binding. (c) In case of acceptance of the deviations, appropriate loading shall be done by BHEL (d) In case of unacceptable deviations, BHEL reserves the right to reject the tender

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iv.	It shall be specifically noted that all documents as per above shall be indexed properly and credential certificates issued by clients shall distinctly bear the name of organization, contact ph no, FAX no, etc.
v.	All Amendments/Correspondences/Corrigenda/Clarifications/Changes/ Errata etc pertinent to this NIT.
vi.	Duly filled-in annexure, formats etc as required under this Tender Specification /NIT
vii.	Notice inviting Tender (NIT)
viii.	General Conditions of Contract (GCC) (signed along with stamp on each page)
ix.	Special Conditions of Contract (SCC) (signed along with stamp on each page)
x.	Technical Conditions of Contract (TCC) consisting of Scope of work, Technical Specification, Drawings etc (signed along with stamp on each page)
xi.	UN PRICED BID (Schedule "A" - without disclosing rates/price, but mentioning only 'QUOTED' or 'UNQUOTED' against each item
xii.	Any other details preferred by bidder with proper indexing.
PART-I B	
	<p><u>ENVELOPE - II</u> <u>SUPER SCRIBED AS: PART-I (EMD/COST of TENDER)</u> With following detail :</p> <p>BHEL NIT NO.</p> <p>NAME OF WORK:</p> <p>DUE DATE OF SUBMISSION:</p> <p>NAME & ADDRESS OF TENDERER:</p>
	<u>Following documents are to be enclosed /placed in this Envelope II</u>
i.	1. Earnest Money Deposit (EMD) in the form as indicated in this Tender
ii.	2. Cost of Tender (Demand Draft or copy of Cash Receipt as the case may be)

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PART-II	
	PRICE BID consisting of the following shall be enclosed
	<u>ENVELOPE-III</u> SUPER SCRIBED AS: PART-II (PRICE BID) With following detail : BHEL NIT NO. NAME OF WORK: DUE DATE OF SUBMISSION: NAME & ADDRESS OF TENDERER:
	<u>Following documents are to be enclosed /placed in this Envelope III</u>
i	Covering letter/Offer forwarding letter of Tenderer enclosed in Part-I
ii	PRICE BID (Duly Filled in Schedule of Rates – rate/price to be entered in words as well as figures)

OUTER COVER	
	ENVELOPE-IV (MAIN ENVELOPE / OUTER ENVELOPE) SUPER SCRIBED AS: TECHNO-COMMERCIAL BID, PRICE BID & EMD BHEL NIT NO : NAME OF WORK: PROJECT: DUE DATE OF SUBMISSION: NAME & ADDRESS OF TENDERER:
	<u>Following documents are to be enclosed /placed in this Envelope III</u>
i	Envelopes I
ii	Envelopes II
iii	Envelopes III

SPECIAL NOTE: All documents/ annexure submitted with the offer shall be properly annexed and placed in respective places of the offer as per enclosure list mentioned in the covering letter. BHEL shall not be responsible for any missing documents

- (7) No Deviation with respect to tender clauses and no additional clauses/ suggestions/ in Techno-commercial bid/ Price bid shall normally be considered by BHEL. Bidders are requested to positively comply with the same.
- (8) BHEL reserves the right to accept or reject any or all Offers. BHEL also reserves the right to cancel the Tender wholly or partly without assigning any reason thereof. In addition, BHEL shall not entertain any correspondence from bidders in this matter (except for the refund of EMD).

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(9) **Assessment of Capacity of Bidders:**

It is hoped that only prequalified Contractors will bid for this NIT. Prequalification norms are given in “Annexure 1” of this NIT. All bidders will be checked with respect to these norms for their prequalification. All supporting credential documents submitted by bidders along with their part 1 technical bid will be the basis of such scrutiny. BHEL will bear no responsibility for any missing documents or documents not submitted by tenderers or document with insufficient information submitted by tenderers. All prequalified tenderers will be evaluated for their capacity and for acceptance of their offer and for Part II price bid /RA. These evaluation norms are given in “Annexure –II” of this NIT. For acceptance of offer and qualification for Part –II, bidder must score minimum 60 Marks. The bid of contractor shall be rejected if marks of the bidder is lesser than 60 as per evaluation norms.

- (10) Since the Work shall be executed at site, bidders must visit site/ work area and study the job content, facilities available, availability of materials, prevailing site conditions including law & order situation etc before quoting for this tender. They may also consult this office before submitting their offers, for any clarifications regarding scope of work, facilities available at sites or on terms and conditions. No additional claim shall be entertained by BHEL in future, on account of non-acquaintance of above.
- (11) For any clarification on the tender document, the bidder may seek the same in writing or through e-mail, as per specified format, within the scheduled date for seeking clarification, from the office of the undersigned. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay or any other delays. Any clarification / query received after last date for seeking clarification may not be normally entertained by BHEL and no time extension will be given.
- (12) Pre bid discussion meeting shall not be held for this NIT.
- (13) In the event of any conflict between requirement of any clause of this specification/ documents/drawings/data sheets etc or requirements of different codes/standards specified, the same to be brought to the knowledge of BHEL in writing for clarification before due date of seeking clarification (whichever is applicable), otherwise, interpretation by BHEL shall prevail. Any typing error/missing pages/ other clerical errors in the tender documents, noticed must be pointed out before pre-bid meeting/submission of offer, else BHEL’s interpretation shall prevail.
- (14) Unless specifically mentioned otherwise, bidder’s quoted price shall deemed to be in compliance with tender.
- (15) Integrity Pact (IP) Agreement is applicable for this NIT. Only those bidders will be considered for further evaluation of their bid who have entered in to the integrity pact with BHEL and have submitted, along with the technical bid, the dully filled Integrity Pact (IP) (*which is enclosed in Annexure VII of this NIT*) , signed and stamped by the authorized signatory who signs the bid .
“Shri J M Lyngdoh , IAS (Retd.)” is the Independent External Monitor of this Tendered/Contract Work. His address is given in Clause 41 of Annexure III under the chapter I “Instructions to the tenderers”.
- (16) The Bidder has to satisfy the Pre Qualifying Requirements stipulated for this Tender in order to be qualified. The Price Bids of only those bidders will be opened who will be qualified for the subject job on the basis of

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pre- qualification and capacity evaluation norms as described in techno-commercial bids and date of Conducting of Reverse Auction shall be intimated to only such bidders.

- (17) The offers of the Bidders who are on the banned list as also the offers of the bidders who engage the service of banned firms shall be rejected; the list of banned firms is available on BHEL website www.bhel.com. For detail, see clause 29 of chapter I (Instructions to the tenderers) of Annexure III.
- (18) In case BHEL decides on a 'Public Opening', the date & time of opening of the sealed PRICE BID shall be intimated to the qualified bidders and in such a case, bidder may depute one authorized representative to witness the price bid opening. BHEL reserves the right to open in-camera the PRICE BID of any or all Unsuccessful/Disqualified bidders under intimation to the respective bidders.
- (19) Validity of the offer shall be for six months from the latest due date of offer submission (including extension, if any).**
- (20) BHEL reserves the right to decide the successful bidder on the basis of Reverse Auction process.** In such case all qualified bidders will be intimated regarding procedure/ modality for Reverse Auction process prior to Reverse Auction and price will be decided as per the rules for Reverse Auction. .
- (21) However, if reverse auction process is unsuccessful as defined in the RA rules/procedures, or for whatsoever reason, then the sealed PRICE BIDS' will be opened for deciding the successful bidder. BHEL's decision in this regard will be final and binding on bidder.
- (22) On submission of offer, further consideration will be subject to compliance to tender & qualifying requirement as applicable.
- (23) In case the bidder is an –Indian Agent of Foreign Principals, Agency agreement has to be submitted along with Bid, detailing the role of the agent along with the terms of payment for agency commission in INR, along with supporting documents.
- (24) The bidders shall not enter into any undisclosed M.O.U. or any understanding amongst themselves with respect to tender. In case BHEL requires any other documents/proofs or information, these shall be submitted immediately.
- (25) The bidder may have to produce original document for verification if so decided by BHEL.
- (26) All Work shall be awarded to L1 tenderer only on rates quoted by L1 Tenderer. BHEL reserves the right to negotiate if need be, with the "L1" tenderer only.
- (27) Interest bearing recoverable advance & mobilization advance will be not be given to the contractor under any circumstances.
- (28) The court of the place from where the LOI is issued during the contractual period shall alone have Jurisdiction to decide any dispute arising out of or in connection with the LOI.

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- (29) The 'INSTRUCTIONS TO TENDERER'S AND TECHNICAL, SPECIAL & 'GENERAL CONDITIONS OF CONTRACT AS DESCRIBED IN VARIOUS ANNEXURES OF THIS NIT /TENDER DOCUMENT ' shall be deemed to form an integral part of this "NIT" and will also form an integral part of contract agreement for the work to be entered into.
- (30) Order of Precedence : In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:
- a. Amendments/Clarifications/Corrigenda/Errata etc issued in respect of the tender documents by BHEL
 - b. Notice Inviting Tender (NIT)
 - c. Price Bid schedule "A", "B" , "C" , "D" , "E".
 - d. Technical Conditions of Contract (TCC)
 - e. Special Conditions of Contract (SCC)
 - f. General Conditions of Contract (GCC)

For

BHARAT HEAVY ELECTRICALS LTD

Sr. Engineer/ Civil

Enclosures:

- 1) Annexure-I: Pre Qualifying criteria.
- 2) Annexure-II: Contractors evaluation criteria/Capacity Evaluation Norms
- 3) Annexure-III: Instructions to the Tenderers and Miscellaneous formats of Documents to be submitted by Tenderers along with their Part 1 Technical bid.
- 4) Annexure –IV: General Conditions of Contract (GCC)
- 5) Annexure –V: Special Conditions of Contract (SCC)
- 6) Annexure –VI: Technical Conditions of Contract , references and drawings (TCC)
- 7) Annexure-VII: Integrity Pact (IP)

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ANNEXURE -1

PRE QUALIFYING CRITERIA

Name of work	Construction of new residential buildings in BHEL Township for BHEL IVP Goindwal Sahib, Punjab.
NIT No.	14708

S/N	PREQUALIFICATION CRITERIA	CREDENTIAL DOCUMENTS TO BE SUBMITTED BY BIDDER IN SUPPORT
A	FINANCIAL CRITERIA	
A1	<u>TURNOVER</u> Tenderers should have an average annual turnover of Minimum of Rs 292 Lakhs based on the audited accounts of last three financial years (2010-11, 2011-12 & 2012-13). Bidders shall submit audited annual accounts (balance sheets and profit & loss account) in support of this.	Audited balance sheet and profit & loss Account duly supported by Income tax return filed by Tenderers of previous three financial years.
A2	<u>NET WORTH</u> Net worth of the Bidder based on the latest Audited Accounts as furnished for 'A1' above should be positive.	
A3	<u>PROFIT</u> Bidder must have earned cash profit in any one of the three Financial Years as applicable in the last three years defined in 'A1' above based on latest Audited Accounts.	
B	TECHNICAL CRITERIA	
B1	Bidder who participated should have completed similar works in the last 7 years (from 1/07/2006 to 30/06/2013) as any one of the following One single work of minimum value of 80 % of estimated cost put to the tender 'OR' Two works each of minimum value of 50 % of estimated cost put to the tender 'OR' Three works each of minimum value of 40 % of estimated cost put to the tender	Copy of Work completion certificates given by customer along with copy of Work order/LOI/PO Agreement and TDS certificate* *TDS certificate is required in case of work done for private customer

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C	STATUTORY							
	Tenderer should have each of following recognition (a) PAN NO. (b) SERVICE TAX NO. (c) VAT/TIN NO.	Copy of PAN , ST registration , VAT/Tin no.						
D	INTEGRITY PACT (IP)							
	Integrity Pact (IP) Agreement is applicable for this NIT. Only those bidders will be considered for further evaluation of their bid who have entered in to the integrity pact with BHEL and have submitted, along with the technical bid, the dully filled Integrity Pact (IP) , signed and stamped by the authorized signatory who signs the bid .	Integrity Pact (IP) Agreement as Annexure VII of this NIT which should be dully signed and stamped by authorized signatory of bidder						
NOTES:								
<p>(1) Similar work means Construction works of buildings (residential/commercial/Institutional/industrial) only. Maintenance works, road works, Drainage works shall not be included in this category.</p> <p>(2) 'Completed ' means the Contractor should have achieved the criteria specified , even if the Contract has not been completed or closed</p> <p>(3) The value of Works completed shall be excluding the cost of Cement and Steel reinforcement. Where such detail is not available in the certificates submitted by contractor than these would be taken as below :</p> <table style="width: 100%; border: none;"> <tr> <td style="padding-left: 20px;">Construction & (fabrication + erection) works combined</td> <td style="text-align: right;">- 50 %</td> </tr> <tr> <td style="padding-left: 20px;">Construction works alone</td> <td style="text-align: right;">- 34 %</td> </tr> <tr> <td style="padding-left: 20px;">Fabrication and erection works including cloaking items</td> <td style="text-align: right;">- 70 %</td> </tr> </table>			Construction & (fabrication + erection) works combined	- 50 %	Construction works alone	- 34 %	Fabrication and erection works including cloaking items	- 70 %
Construction & (fabrication + erection) works combined	- 50 %							
Construction works alone	- 34 %							
Fabrication and erection works including cloaking items	- 70 %							

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ANNEXURE -II**CAPACITY EVALUATION CRITERIA OF BIDDER**

Name of work	Construction of new residential buildings in BHEL Township for BHEL IVP Goindwal Sahib, Punjab.
NIT No.	14708

	THRUST AREA	SCORE	QUALIFICATION NORMS
I	NATURE OF COMPANY	5	
	Public Limited	5	
	Private Limited/Partnership firm	3	
	Sole Proprietor	2	
II	Total Experience of similar nature of works (including the Cost of cement and steel)	30	
	Total value of civil works executed/Completed in the last three financial years (2010-11,2011-12,2012-13) (Pro-rata for in between cases)	30	Rs. 2020 Lakhs
	More than	18	Rs. 1010 Lakhs
III	Highest value of single Similar Work completed during last seven financial years (2006-07 to 2012-13) (including the Cost of cement and steel)	20	
	(Pro-rata for in between cases)	20	Rs. 1796 Lakhs
	More than	12	Rs. 898 Lakhs
IV	Performance on previous civil works each of minimum value Rs. 449 Lakhs which was stated and completed during last seven financial years.(2006-07 to 2012-13)	20	IF TOR = Ratio of Actual completed time / Stipulated completion time is '1' or more than '1' without levy of Compensation by customer.
	Successful completion of three major works in time.	20	
	Successful completion of two major works in time.	16	
	Successful completion of one major work in time.	12	
V	Financial stability - Solvency Certificate	10	
	Pro-rata for in between cases	10	Rs.898 Lakhs
	More than .	6	Rs. 449 Lakhs

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VI	Equipment's owned by Bidder	9	
•	Concrete mixers of minimum full bag capacity	1	5 NO (minimum)
•	Fully automatic Batching plant (min. 10 cum capacity) with pump	1	1 No. (minimum)
•	Mortar Mixer	1	2 No. (minimum)
•	Concrete vibrators for beam, slab, column, Shutter	1	10 NO (minimum)
•	Steel shuttering	1	3000 Sqm (minimum)
•	Steel props	1	9000 m3 space (minimum)
•	Compressive strength testing machine for concrete/bricks etc	1	Min 1 No.
•	Total station/auto level	1	Min 1 NO
•	Tractor with trolley /Tipper/Transit Mixer	1	Min 1 NO
VII	Qualified staff availability with Bidder	6	
•	Project Manager with degree in Civil Engineering with minimum 10 years of work experience	3	Minimum 1 Nos
•	Graduate Civil Engineer of minimum 5 years of work experience	2	Minimum 1 Nos
•	Civil Diploma engineer of minimum 5 years of work experience or Graduate Civil Engineer having any experience	1	Minimum 2 Nos

NOTE:

- i) **Minimum score required for qualification for part -2 and acceptance of offer is 60 out of 100.**
- ii) **All the above financial value includes cost of cement, steel reinforcement & structural steel and similar work shall be those as defined in Annexure I of this NIT.**
- iii) For evaluation of norms as per S/n (I) above bidder must submit, along with their technical bid, the copy of PAN no., or Partnership deed or Memorandum and articles of associations as the case may be.
- iv) For evaluation of norms as per S/n (II),(III),(IV) above bidder must submit, along with their technical bid, the copy of work completion certificates duly supported by copy of work orders / LOI/PO/Agreement and TDS certificate (in case of private customer only) where information of date of award of work, completed value of work, stipulated period of completion, actual period of completion, status of compensation levied must be available. Bidder should give such detail in a separate sheet duly signed by him as per form no.F-10 and F-11 of Annexure _III and they may also give work completion certificates duly signed by their customer as per form no...F-12. of Annexure _III but it must be supported by copy of work order/ Agreement/ PO and TDS certificate (in case of private customer only)
- v) For evaluation of norms as per S/n (V) above bidder must submit, along with their technical bid, the copy of Bank solvency certificate given by authorized officer of the banks of bidder not earlier than 1/01/2013 .
- vi) For evaluation of norms as per S/n (VI) ,(VII) above bidder must submit, along with their technical bid, the Affidavit on non-Judicial stamp of Rs.100 and as per form no F-14.. of Annexure III of this NIT. This Affidavit must be valid.

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ANNEXURE -III

**Instructions to the Tenderers and
Miscellaneous formats of Documents to be submitted by Tenderers along with their Technical bid.**

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CHAPTER -I**INSTRUCTIONS TO THE TENDERERS**

1. Sealed Tenders in two part bids for the above said work is hereby invited from Contractors experienced in works of similar kind and magnitude and having qualification as per Annexure-I of this NIT.
2. Tenders should be addressed to Sr. Deputy General Manager (Head/ Civil, HR& MM), Bharat Heavy Electricals Limited, Industrial Valves plant, 433-Industrial Complex , Goindwal Sahib, Distt. Tarn-Taran, Punjab, Pin -143422
3. The full name and address of the tenderer, name of the work, BHEL NIT No. and due date of tender Submission should be super scribed on the cover.
4. The local address of the Contractor, the name of the person to whom all the correspondence are to be addressed should be indicated with telephone number (both office & residence), FAX / e-mail address, mobile no. etc..
5. All entries in the tender documents should be in same ink. Erasures and over writing are not permitted. All cancellations and insertions should be duly signed by the tenderer concerned with proper indication of the name, designation and address of the person signing. Any covering letter and comments of the Contractor should be submitted in duplicate along with the offer.
6. Tenderers shall fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign each and every page of the tender document including the drawings (wherever applicable) attached there to before submitting the tender.
7. There will be a Percentage rate contract. The tenderer shall quote a “percentage above” or “below” or “at par” over the rates shown in the Bill of Quantities (Schedule “A” of part 2 price bid) which are based on “CPWD DSR 2012” (*the rates shown in Schedule “A” of price bid are excluding the cost of free issue material supplied by BHEL to the contractors for the items of work in which such free issue material is to be incorporated.*) The percentage quoted shall be clearly written in both words and figures. This is to be quoted in Schedule ‘A’ of price bid only.
8. The quoted percentage will apply to all the individual items uniformly.
9. The tenderer has to quote applicable service tax separately at appropriate space provided to account the same.
10. Loading factor for non-acceptance of compensation for delay clause/Completion period clause: Offers which deviate from this clause, will attract maximum 7.5 % loading on the offer and accordingly proportionate percentage will be loaded for accepting lesser percentage of compensation for delay clause. Example: If the tenderer has accepted for maximum 5% compensation for delay clause, then balance 2.5% will be loaded for evaluating lowest bidder.

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11. The tenderer shall quote the applicable percentage in figures (international numerals to be used) as well as in words (English language to be used). If on check there are found to be differences between the quotation given by the bidder in words and figures or in the amount worked out by him in the schedule of quantities and general summary, the same shall be adjusted in accordance with the following rules:
- If, in the price structure quoted for the required services & works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the BHEL there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
 - If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
 - If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.
 - If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the BHEL, the bid is liable to be ignored.
12. In quoting their rates, the tenderers are advised to take into account all factors including any fluctuations in market rates. No claim for enhanced rates will be entertained on this account after acceptance of the tender or during the currency of the contract.
13. The percentage rates offered are for finished item of works as per Bill of Quantities and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, duties, octroi, transport, lay-out, repairs, rectifications, maintenance during warranty period, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete. However if the service tax and labor welfare cess is applicable for this contract, it will be extra to the rates quoted. The rates shall be excluding the cost of free issue material issued to the contractor by BHEL. The rates shall include expenses towards PF and ESI contributions.
14. The percentage rates to be quoted shall be firm and shall inclusive of applicable statutory levies arising from Central/State legislature and rules and regulations framed there under prevailing at the date 7 days prior to the last date of bid submission. In case any new tax/levy/duty etc. becomes applicable after the date of Bidder's offer, the Bidder/Contractor must convey its impact on his price duly substantiated by documentary evidence in support of the same before opening of Price Bid. Claim for any such impact after opening the Price bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.
15. Rate quoted shall be excluding Service Tax and 'CESS' under 'BOCW act 1996' but including all

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royalties, terminal taxes, Octroi duties, Central or Provincial Excise Tax, Sales Tax as applicable and any other taxes leviable under the State or Central Government rules on this work. The Bharat Heavy Electricals Ltd., will not entertain any claim whatever in this respect. The service tax as applicable for this contract shall be mentioned specifically by Tenderer in Price bid and Technical Bid.

16. The Tender for the works shall remain open for acceptance for a period of "SIX MONTHS" from the date of opening of tender (PART1) ie validity of offer shall be six months from the date of opening of part1 technical bid of bidders.
17. Before quoting, the tenderers are advised to inspect the site of work and its environments and be well acquainted with the actual working and other prevailing conditions, position of materials and labor. They should be well versed with BHEL General Conditions of Contract, Instructions to tenderers, drawings wherever applicable and specifications and all other documents which form part of the agreement to be entered into subsequent to award of work. The tenderers shall specially note that it is the tenderer's responsibility to provide any item which is not specially mentioned in the specification or drawing, but which is necessary to complete the work.
18. Should a tenderer find discrepancies or omissions in the drawings wherever applicable / Specifications / Scope of work / Terms & Conditions attached to the tender documents or should be in doubt as to their meaning, he should at once address to the authority inviting the tender for clarifications.
19. Every endeavor is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk of any error which may be subsequently discovered and shall make no subsequent claim on account thereof.
20. In the event of tender being submitted by a firm, the tender must be signed separately and legibly by each partner or member of the firm or in their absence, by the person holding the power of Attorney on behalf of the firm concerned. In the latter case, a copy of the power of attorney duly attested by a Gazetted officer must accompany the tender.
21. Every tender must be accompanied by Demand Draft / Pay order for the amount mentioned as Earnest Money. This Earnest money will be refunded to the unsuccessful tenderers after finalization of the award of work (normally within 15 days from date of award of work). In the case of successful tenderer, the earnest money will be retained as part of the Security Deposit for satisfactory completion of the work.
22. If a tenderer submits only one envelope / cover containing all the bids or combined bids e.g. techno-commercial bid & price bid together, the bid is liable for rejection. The decision to accept such bids shall be at the sole discretion of BHEL, which may be done by BHEL after segregating the bids so received.
23. Tenderer shall not increase their quoted rates, once the tender has been opened and during execution of the contract in case, his tender is accepted. The rates shall remain firm throughout the contract period or

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extended period of contract, extended due to any reason. Price variation clause shall not be applicable to this tender and contract.

24. Quantities shown in the attached schedule are only tentative and approximate and are liable for variation. The contractor will have to execute all or any item of work irrespective of their quantities up to any extent without entitling the Contractors to any compensation, provided the total value of the Contract does not vary by more than 20% (twenty percent).
25. If after opening of tenders, a tenderer revokes his tender or increases his earlier quoted rates or after acceptance of his tender does not commence the work in accordance with the instructions of Engineer-in-charge, the Earnest Money Deposited by him will be forfeited and acceptance of his tender withdrawn. Unless the Contractor whose tender is accepted signs the contract agreement within fifteen days (15 days) of the date of the order directing him to do so, the amount of Earnest Money already deposited by him may be forfeited and acceptance of his tender withdrawn.
26. BHARAT HEAVY ELECTRICALS LIMITED reserves the right to reject any or all the tenders received or accept any tender or part thereof . In the case of acceptance of a part of tender, the time for completion may also be reduced to the extent considered appropriate by the accepting authority.
27. Conditional and unsigned tenders, tenders containing absurd rates and amounts, tenders which are incomplete or otherwise considered defective, tenders which are not in accordance with the tender conditions laid down by the Accepting Officer and tenders not submitted in the prescribed forms are liable to be rejected.
28. If the tenderer deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage. Further, the tenderer will be liable for any damage caused.
29. The bidders participating in this tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer then it will be construed that the subject bidder is not under any such hold. But at a later date if it comes to the notice of BHEL about any such hold under enforcement on the subject bidder, BHEL will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalization of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any ongoing tenders even if participated till the hold is officially lifted and confirmed in writing.
30. Words imparting the singular number shall be deemed to include the plural number and vice-versa where the context so requires.

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31. The General and Special Conditions of Contract are complementary to each other and where they are in conflict, the special condition shall prevail.
32. Should a tenderer or a contractor on the list of approved contractors have a relative or in the case of firm or Company of contractors or any of its shareholder's relative is employed in a, Bharat Heavy Electricals Limited, the authority inviting tenders shall be informed of this fact at the time of submission of the tender, failing which tender may be disqualified or if such a fact subsequently come to light, the relevant provisions of the General Conditions of Contract will apply.
33. BHARAT HEAVY ELECTRICALS LIMITED will not be bound by any power of Attorney granted by the tenderer or by changes in the composition of the firm made subsequent to the execution of the contract. They may however, recognize such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.
34. Work shall be awarded to L1 tenderer on rates quoted by L1 Tenderer. BHEL reserves the right to negotiate if need be, with the "L1" tenderer only. Tenderers shall not increase their quoted rates in case the Bharat Heavy Electricals Limited negotiates for negotiation for reduction of rates. Such negotiation shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted shall be binding on the tenderers for a period of Six months from the date of opening of tenders. Since Nature of work is such that splitting is not possible hence all work as per scope shall be awarded without any splitting to other bidders.
35. Reverse Auction shall be done to finalize the L1 bidder however in case RA is not done and more than one Tenderer quote equal L1 rates, further sealed quotation will be obtained from L1 tenderers to decide L1. Under any circumstance, revised rate should not be more than the original quoted rate.
36. If work is awarded to the bidder than he shall comply with the provision of Employees Provident Fund and Miscellaneous Provisions Act 1952 and rules, regulations and other orders issued there under. He, as an employer, shall be liable to pay employer's contribution/deductions towards PF under the PF Act in respect of all labour employed by him, for the execution of the contract in accordance with the provisions of the Employees Provident Funds and Miscellaneous Provisions Act, 1952 as amended from time to time. For this purpose he shall indicate the code number obtained from the Regional Provident Fund Commissioner or he should obtain a code number if he has not and produce the Photostat copy of the challan / receipt of monthly remittance of the contribution made by him to the PF Commissioner.
37. If work is awarded to the bidder than he shall get himself registered with the E.S.I. Authorities as an independent Employer, obtain a separate code number and remit the dues in respect of the labor employed by him for the work and produce the Challans / Receipts of remittance of the ESI contributions due under the E.S.I. Act to the Company authorities. He shall also furnish such returns, as are due, under the Act, to be sent to the appropriate authorities through the Principal Employer.
38. If any action is brought in by P.F. Commissioner/ESI authorities on BHEL for the work done by the

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Contractor for his laborers regarding PF/ESI amount due, short remittances, non-remittances etc., the Contractor shall defend the case on behalf of BHEL and/or reimburse BHEL the expenses so incurred.

39. If applicable, the Contractor shall apply and obtain license under Contract labor (R&A) Act 1970 and comply with the relevant provisions of this Act in respect of the labor employed by him for executing this contract. The Contractor shall furnish necessary returns to the authorities through the Principal Employer.
40. If applicable, the Contractor shall insure all his laborers and materials. Any claim by his employees for the damages shall be settled by the contractor even action is against BHEL or to reimburse the legal expenses incurred by BHEL.
41. Contractor shall produce necessary records, documents, explanation whenever he is called upon to do so, by any Government Agencies like ESI, PF, and VIGILANCE etc.
42. Integrity pact (IP) shall be applicable for this tenders / contracts as indicated in NIT. This integrity pact is being issued as part of the Tender documents and shall be returned by the bidder along with Techno-commercial bid duly filled, signed and stamped by the authorized signatory who signs the bid. Only those bidders who have entered into such an IP with BHEL shall be considered qualified to participate in the bidding. Entering into this pact shall be a preliminary qualification.
- BHEL has appointed competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement. Sh. J M Lyngdoh, IAS (Retd.) has been appointed as IEM for this contract. His address is as below:
- Shri J. M. Lyngdoh , IAS (Retd.)
Plot No. 144-145,
Pragati Resort,
Proddator Village & P.O.
Shankarpally Road,
Rangareddy Distt. (AP)- 500 033
- All correspondence with Shri J M Lyngdoh, has to be with registered post only as courier service is not available there.

43. SITE CONDITIONS:

It is hoped that the tenderer has inspected the site of work and its environments and is well acquainted with the actual working and other prevailing conditions, position of materials and labor. Tenderers are required to submit such certificate for same. A general site synopsis is also enumerated in Chapter 1 of Technical conditions of contract (TCC).

44. SCOPE OF WORK:

Detail is Given in Chapter II of Technical conditions of Contract (TCC)

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45. SCOPE MATRIX AND CONSTRUCTION FACILITIES:

A Scope Matrix is given in Chapter III of Technical Conditions of Contract indicating the scope of contractor and BHEL. Detail of Tools, Plants, and Equipment is, testing and measuring devices, Technical and Non-technical manpower, Material to be brought by Contractor etc is Given in Chapter IV & V of Technical Condition of Contract. Such detail of T&P, Equipment's ,MMEs and materials, Drawings etc to be issued by BHEL is Given in Schedule 'B', 'C', 'D', 'E' of Part2 Price bid.

46. TERMS OF PAYMENT:

These are described in Annexures of this NIT and See Chapter IV of General Conditions of Contract and Clause '7' of Special conditions of Contract (SCC) for the detail.

47. EXTRA ITEMS / DEVIATED ITEMS:

No extra items of work shall be carried out by the contractor other than those authorized to do so in writing by the Engineer in charge. For any such items of work executed as per instructions of Engineer, the rates will be fixed on the basis indicated under clause 50, Chapter IV of General Conditions of Contract.

48. SECURITY DEPOSIT:

Interest free Security Deposit shall be collected from the successful tenderer. Detail is given in clause 16, (chapter III) of General Conditions of Contract (GCC).

For extra items of work and deviated quantities, security deposit will be recovered at 10% of the value of deviated amount. The security deposit will be released as stipulated under clause 57 of GCC.

49. COMPLETION PERIOD:

Completion period of this work shall be 12 Months from the scheduled date of Start of Work. For Detail, Please see chapter VI /clause '6' of Technical Conditions of Contract (TCC). In addition, Clause 7 and Clause 9 of Chapter II and Clause 40 of chapter III of General Conditions of Contract (GCC) are to be referred.

For performance monitoring and Force measure clause, see detail as given in, clause '8' of Special Conditions of contract (SCC).

50. LIQUIDITY DAMAGES (LD):

In case the work is delayed and not completed within stipulated period of completion due the reasons attributable to the contractor LD penalties shall be levied to the contractors and shall be recovered from Contractors RA bill/Final bill/Security deposits.

For detail, see Clause 41, Chapter III of General Conditions of Contract.

51. OBLIGATIONS /RESPONSIBILITY OF CONTRACTORS:

Detail of Services to be rendered by Contractor, Obligations of Contractor with respect to the rates offered, With respect to T&P, Material and IMTEs, obligations of contractors with respect to Labour, Health, Safety and environments, and other important responsibilities are described in Special Conditions of Contract. Tenderers are advised to go through them .

52. OTHER REFERENCES:

All other conditions not specifically mentioned above are enumerated in miscellaneous chapters of General conditions of contract, Special Conditions of Contract and technical conditions of contract. Technical references for the work are given in Technical conditions of contract.

53. BHEL reserves the right to go for reverse auctioning among the technically qualified bidders who have been sort listed after technical bid evaluation.
54. The contractor's responsibility under this contract shall commence from the date of receipt of the order or acceptance of Letter of Intent. The expenses for completing the stamping of the agreement shall be paid by the contractor.
55. The correspondence exchanged against the tender from both tenderer and BHEL through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business.
56. Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

57. GENERAL TERMS AND CONDITIONS OF REVERSE AUCTION

Against this tender for the subject work/system with detailed scope of work as per tender specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING ON INTERNET.

- For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
- BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained.
- Reverse Auction rules like event date, time, Start price, bid decrement, extensions etc. also will be communicated through service provider for compliance. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to participate in the event.
- BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Taxes and Duties, Freight charges, Insurance and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.
- Reverse auction will be conducted on scheduled date & time. At the end of Reverse Auction event, the lowest bidder value will be known on the network. The lowest bidder has to

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Fax the duly signed Filled-in prescribed format as provided on case-to- case basis to BHEL through Service provider within 24 hours of Auction without fail.

- Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
- In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.

BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction

58. BUSINESS RULES FOR REVERSE AUCTION

SCOPE: Construction of new residential buildings in BHEL Township for BHEL IVP Goindwal Sahib, Punjab

SCHEDULE FOR REVERSE AUCTION: scheduled date will be informed later to the bidders whose part1 technical bid is accepted..

- **Initial Auction Time**
- **Auction Close Time : Will be informed later.**

AUCTION EXTENSION TIME: If a bidder places a Bid in the last 5 minutes of Closing of the Auction, the auction shall get extended automatically for another 5 minutes. In case, there is no Bid in the last 5 minutes of closing of Auction, the Auction shall get closed automatically without any extension.

BID PRICE: The Bidder has to quote their price for the Items specified in *schedule 'A' of price bid & as per excel working sheet provided before Reverse auction.*

BIDDING CURRENCY AND UNIT OF MEASUREMENT: Bidding will be conducted in Indian rupees for the scope and the specifications mentioned in *schedule 'A' of price bid & as per excel working sheet provided before Reverse auction.*

OPENING PRICE:

- **Initial Auction:** The bidders are required to quote the same Price as quoted in the sealed Bid. BHEL shall evaluate the quotes from contractors and shall arrive at an Opening Price for the dynamic auction. The bidders shall confirm in writing to BHEL that their opening bid shall be same as that quoted in their final sealed price bid submitted against this tender. If it is found to be otherwise later, the bidder will be disqualified from the tender
- **Final Auction:** There shall be an Opening Price in this type of auction. The Opening Price shall be displayed at the start of the auction. Bidders are required to quote lower than the Opening Price.

BID DECREMENT: The Bid Decrement for the Final Auction shall be available to the bidders at the start of the Final auction. There shall be no Bid Decrement for the Initial Auction.

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POST AUCTION PROCEDURE: BHEL will proceed with the Lowest Bid in the Reverse Auction as per the normal procedure.

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CHAPTER –II

MISCELLANEOUS FORMATS

Form No: F-01

PERFORMA FOR TECHNO COMMERCIAL INFORMATION
(MANDATORY TO ALL BIDDERS)

NOTE: - Tenderers are required to fill in the following details and no column should be left blank

1	Name of the Tenderer (name of firm/company/individual)	
•	Address of the Reg. office of the Tenderer	
•	Address of the correspondence of the Tenderer	
2	Details about type of the Firm/Company	
•	Commencement of business	Year//
•	Name of the Person Holding the power of attorney for this tender	
3	Details of Contact of above person for this Tender	Name Mr./Ms Designation: Telephone No: Mobile No: Fax No: Email id:

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4	EMD DETAILS	DD No: Bank :	Date: Amount:
5	TENDER DOCUMENT COST DETAILS	DD No: Bank :	Date: Amount:
6	Validity of Offer	(OR) BHEL CASH RECEIPT NO: SIX MONTHS (MANDATORY TO ALL BIDDER)	
7	Whether the format for compliance with PRE QUALIFICATION CRITERIA (ANNEXURE-I) is understood and filled with proper supporting documents referenced in the specified format.	Applicable	YES / NO
8	Whether the format for compliance with CONTRACTORS EVALUATION CRITERIA (ANNEXURE-II) is understood and filled with proper supporting documents referenced in the specified format.	Applicable	YES / NO
9	Documentary evidence in support of type of constituent of tenderer ; viz Memorandum and articles of associations enclosed in case of Public Ltd/ Private Ltd, Partnership Deed (in case of partnership firm), PAN/ TIN (in case of proprietor etc constitution is enclosed	Applicable	YES / NO
10	Self-attested copy of Audited profit and Loss Account and balance sheets for the last three Fy. Years 2010-11,2011-12,2012-13 is enclosed	Applicable	YES/ NO
11	Self-attested Copy of ITR of last three fy. Years is enclosed	Applicable	YES / NO
12	Self-attested Copy of PAN Card is enclosed	Applicable	YES / NO
13	Self-attested Copy of Service Tax registration No. is enclosed	Applicable	YES / NO
14	Self-attested Copy of VAT/TIN no. is enclosed	Applicable	YES / NO
15	Self-attested Copy of ESI registration No., if available, is enclosed	Applicable	YES / NO
16	Self-attested Copy of EPF registration No., if available , is enclosed	Applicable	YES / NO
17	Self-attested Copy of Work completion certificates duly supported by copy of Work orders/ LOI/ Agreements and TDS certificates (TDS CERTIFICATE is mandatory in case of work experience for private sector) , is enclosed	Applicable	YES / NO
18	Whether all pages of the Tender documents including annexure, appendices etc are read understood <u>and signed and stamped on each page</u>	Applicable	YES / NO
19	Offer forwarding Letter/Submission of Tender, is enclosed	Applicable as per Form 2	YES / NO
20	Declaration by Authorized Signatory , is enclosed	Applicable as per Form 3	YES/ NO

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21	No Deviation Certificate is enclosed	Applicable as per Form 4	YES/ NO
22	Declaration confirming knowledge about Site Conditions is enclosed	Applicable as per Form 5	YES/ NO
23	Declaration for relation in BHEL is enclosed	Applicable as per Form 6	YES/ NO
24	Non Disclosure Certificate is enclosed	Applicable as per Form 7	YES/ NO
25	Bank Account Details for E-Payment is enclosed	IF Applicable as per Form 8	YES/ NO
26	Form for seeking clarifications ,is enclosed, if applicable	Applicable as per Form 9	YES/ NO
27	Work experience profile -I of the bidder is enclosed	Applicable as per Form 10	YES/ NO
28	Work experience profile – II of the bidder is enclosed	Applicable as per Form 11	YES/ NO
29	Affidavit Non judicial stamp of Rs. 100/- for manpower ,T & P owned by the tenderer , is enclosed	Applicable as per Form 14	YES/ NO
30	Bank Solvency certificate issued by Bankers of Contractor not earlier than 01/01/2013. is enclosed	Applicable as per Bankers	YES/ NO
31	Power of Attorney for Submission of Tender/Signing Contract Agreement is enclosed	Applicable as per Form 13	YES/ NO
32	Declaration for blacklist/banned firms is enclosed	Applicable as per Form 15	YES/ NO
33	INTEGRITY PACT AGREEMENT (dully filled , signed and stamped) is enclosed.	Applicable as per Annexure VII of this NIT	YES/ NO

NOTE: STRIKE OUT YES OR NO AS APPLICABLE

AUTHORIZED SIGNATORY

(With Name, Designation and Company seal)

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Form No: F-02**OFFER FORWARDING LETTER / TENDER SUBMISSION LETTER***(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)*

Offer Reference No:.....

Date:.....

To,

**Sr.DGM,
Head/ HR,Civil & MM
BHEL_IVP, Goindwal Sahib
Distt. Tarn-Taran, Punjab**

Dear Sir,**Sub : Submission of Offer against BHEL NIT No:**

I/We hereby offer to carry out the work detailed in the Tender Specification of BHEL NIT as mentioned in above subject issued by Bharat Heavy Electricals Limited, IVP, Goindwal Sahib in accordance with the terms and conditions thereof.

I/We have carefully perused the following listed documents connected with the above work and agree to abide by the same.

1. Amendments/Clarifications/Corrigenda/Errata/etc issued in respect of the Tender documents by BHEL
2. Notice Inviting Tender (NIT)
3. Instructions to the Tenderers
4. Price Bid, Schedule "A", "B", "C", "D", "E"
5. Technical Conditions of Contract
6. Special Conditions of Contract
7. General Conditions of Contract
8. Forms
9. Integrity Pact (IP)

Should our Offer be accepted by BHEL for Award, I/we further agree to furnish 'Security Deposit' for the work as provided for in the Tender Conditions within the stipulated time as may be indicated by BHEL.

I/We further agree to execute all the works referred to in the said Tender documents upon the terms and conditions contained or referred to therein and as detailed in the appendices annexed thereto.

I/We have deposited/depositing herewith the requisite Earnest Money Deposit (EMD) as per details furnished in the Check List.

Authorized Signatory of Bidder

Signature :

Name :

Address :

Place:

Date:

CONTRACTOR**ACCEPTING OFFICER (BHEL)**

Form No: F-03

DECLARATION BY AUTHORIZED SIGNATORY OF BIDDER
(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

**Sr.DGM,
Head/ HR,Civil & MM
BHEL_IVP, Goindwal Sahib
Distt. Tarn-Taran, Punjab**

Dear Sir,

Sub : Declaration by Authorized Signatory

Ref : 1) NIT/Tender Specification No:,

2) All other pertinent issues till date

I/We, hereby certify that all the information and data furnished by me with regard to the above Tender Specification are true and complete to the best of my knowledge. I have gone through the specifications, conditions, stipulations and all other pertinent issues till date, and agree to comply with the requirements and Intent of the specification.

I further certify that I am authorized to represent on behalf of my Company/Firm for the above mentioned tender and a valid Power of Attorney to this effect is also enclosed.

Yours faithfully,

(Signature, Date & Seal of Authorized Signatory of the Bidder)

Date:

Enclosed : Power of Attorney

CONTRACTOR

ACCEPTING OFFICER (BHEL)

Form No: F-04**NO DEVIATION CERTIFICATE****(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)**
-----**To,****Sr.DGM,
Head/ HR,Civil & MM
BHEL_IVP, Goindwal Sahib
Distt. Tarn-Taran, Punjab****Dear Sir,****Sub :** No Deviation Certificate**Ref :** 1) NIT/Tender Specification No:,
2) All other pertinent issues till date

We hereby confirm that we have not changed/ modified/materially altered any of the tender documents as downloaded from the website/ issued by BHEL and in case of such observance at any stage, it shall be treated as null and void.

We also hereby confirm that we have neither set any Terms and Conditions and nor have we taken any deviation from the Tender conditions together with other references applicable for the above referred NIT/Tender Specification.

We further confirm our unqualified acceptance to all Terms and Conditions, unqualified compliance to Tender Conditions, Integrity Pact and acceptance to Reverse Auctioning process.

We confirm to have submitted offer in accordance with tender instructions and as per aforesaid references.

Thanking you,

Yours faithfully,

(Signature, date & seal of authorized representative of the bidder)

CONTRACTOR**ACCEPTING OFFICER (BHEL)**

Form No: F-05

DECLARATION CONFIRMING KNOWLEDGE ABOUT SITE CONDITIONS
(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

**Sr.DGM,
 Head/ HR,Civil & MM
 BHEL_IVP, Goindwal Sahib
 Distt. Tarn-Taran, Punjab**

Dear Sir,

Sub : Declaration confirming knowledge about Site conditions

Ref : 1) NIT/Tender Specification No:,
 2) All other pertinent issues till date

I/We,..... hereby declare and confirm that

we have visited the Project Site as referred in BHEL Tender Specifications and acquired full knowledge and information about the Site conditions including Wage structure, Industrial Climate, the Law & Order and other conditions prevalent at and around the Site. We further confirm that the above information is true and correct and we shall not raise any claim of any nature due to lack of knowledge of Site conditions.

I/We, hereby offer to carry out work as detailed in above mentioned Tender Specification, in accordance with Terms & Conditions thereof.

Yours faithfully,

(Signature, Date & Seal of Authorized Representative of the Bidder)

Date :

Place

CONTRACTOR

ACCEPTING OFFICER (BHEL)

Form No: F-06**DECLARATION FOR RELATION IN BHEL**

(To be typed and submitted in the Letter Head of the Company/Firm of Bidder failing which the offer of Bidder is liable to be summarily rejected)

To,

**Sr.DGM,
 Head/ HR,Civil & MM
 BHEL_IVP, Goindwal Sahib
 Distt. Tarn-Taran, Punjab**

Dear Sir,

Sub : Declaration for relation in BHEL

Ref : 1) NIT/Tender Specification No:

I/We hereby submit the following information pertaining to relation/relatives of Proprieter/Partner(s)/Director(s) employed in BHEL

Type/write any one as applicable:

1. The Proprietor, Partner(s), Director(s) of our Company/Firm DO NOT have any relation or relatives employed in BHEL

OR

2. The Proprietor, Partner(s), or Director(s) of our Company/Firm HAVE Relation/relatives employed in BHEL and their particulars are as below:

(i)

(ii)

Signature of the Authorized Signatory

Note:

1. Attach separate sheet, if necessary.
2. If BHEL Management comes to know at a later date that the information furnished by the Bidder is false, BHEL reserves the right to take suitable action against the Bidder/Contractor.

CONTRACTOR

ACCEPTING OFFICER (BHEL)

Form No: F-07

NON DISCLOSURE CERTIFICATE
(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

**Sr.DGM,
Head/ HR,Civil & MM
BHEL_IVP, Goindwal Sahib
Distt. Tarn-Taran, Punjab**

Dear Sir,

I/We understand that BHEL is committed to Information Security Management System as per their Information Security Policy.

Hence, I/We M/s..... who are submitting offer for providing services to BHEL against Tender Specification No: hereby undertake to comply with the following in line with Information Security Policy of BHEL

- To maintain confidentiality of documents & information which shall be used during the execution of the Contract.
- The documents & information shall not be revealed to or shared with third party which shall not be in the business interest of BHEL

(Signature, date & seal of Authorized Signatory of the bidder)

Date:

CONTRACTOR**ACCEPTING OFFICER (BHEL)**

Form No: F-08

BANK ACCOUNT DETAILS FOR E-PAYMENT

**TO,
THE PURCHASE / CONTRACT EXECUTING AGENCY / BHEL
ACCEPTANCE FOR ELECTRONIC FUND TRANSFER / RTGS TRANSFER**

1	Name & Address of the Contractor	
2	Details of Bank Account:	
3	VENDOR CODE assigned by BHEL	
4	NAME & ADDRESS OF THE BANK	
5	NAME OF THE BRANCH	
6	BRANCH CODE	
7	MICR CODE	
8	ACCOUNT NUMBER	
9	TYPE OF ACCOUNT CURRENT A/C / OD / CASH CREDIT	
10	BENEFICIERY'S NAME	
11	IFSC CODE OF THE BRANCH	
12	EMAIL ID	
13	TELEPHONE/MOBILE NO.	

CERTIFICATE

I / We hereby agree to receive the payments due from BHARAT HEAVY ELECTRICALS LIMITED by the National Electronic Funds Transfer and/or RTGS Transfer mode by credit to my / our above mentioned Bank Account. I / We also agree that payments made to the above mentioned Account are a valid discharge of the liability of Bharat Heavy Electricals Limited. I / We also agree to bear the applicable Bank Charges for the above mode of transfer. A copy of the cheque leaf/cancelled cheque leaf of the above account is sent herewith.

AUTHORISED SIGNATORY WITH NAME & SEAL

Banker's Certification

We confirm that we are enabled for receiving RTGS and NEFT credits and we further confirm that the account number of _____ (name of account holder), the signature of the authorized signatory and the MICR and IFSC codes of our Branch mentioned above are correct.

(Manager / Officer's)

PLACE:

Signature Under Bank stamp
and Name Seal With Membership No.
.....
(Telephone / Mobile No.....)

CONTRACTOR

ACCEPTING OFFICER (BHEL)

Form No: F-09

FORM FOR SEEKING CLARIFICATION
(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

**Sr.DGM,
 Head/ HR,Civil & MM
 BHEL_IVP, Goindwal Sahib
 Distt. Tarn-Taran, Punjab**

Dear Sir,

Sub : Request for Clarification

Ref : 1) NIT/Tender Specification No:,
 2) All other pertinent issues till date

Sl no.	Reference clause of Tender Document	Existing provision	Bidder's query	BHEL's clarification
1				
2				
3				
4				
5				
6				

Yours faithfully,

(Signature, date & seal of Authorized
 Representative of the Bidder)

CONTRACTOR

ACCEPTING OFFICER (BHEL)

Form No: F-10

WORK EXPERIENCE PROFILE 1 OF BIDDER

(To be typed and submitted in Separate sheet and should contain following information)

DETAILS OF SIMILAR WORKS COMPLETED DURING THE LAST SEVEN YEARS (2006 – 2007 TO 2012 - 2013)									
Sl. No.	Name of work & Agreement No.	Date of Commencement	Date of completion		Reasons for delay & compensation levied, if any	Work order Value in Rs.	Gross cost of completion		Name, complete address of the authority for whom the work was done
			Stipulated	Actual			Including cost of Cement, steel reinforcement	Excluding cost of cement, steel reinforcement	
1									
2									
3	ATTACH SEPARATE SHEET FOR FURNISHING THE INFORMATION								
4	IN DETAIL & READABLE WRITING								
5									
6									
7									
SELF ATTESTED COPIES OF WORK COMPLETION CERTIFICATES, WORK ORDERS AND TDS CERTIFICATES (IN CASE OF WORK DONE FOR PRIVATE SECTORS) ETC. ARE TO BE FURNISHED FOR EVERY WORK ENUMERATED ABOVE . NO WEIGHTAGE WILL BE GIVEN IN THE ABSENCE OF THESE CREDENTIAL DOCUMENTS									

NOTES:

- BIDDERS ARE REQUIRED TO FURNISH ALL THE JOBS OF SIMILAR NATURE WHICH THEY HAVE COMPLETED UPTO THE TIME OF SUBMISSION OF TENDER, AS PER ABOVE FORMAT.
- BIDDERS HEREBY UNDERTAKE THAT THEY HAVE FURNISHED THE DETAILS SOUGHT AS PER POINT NO. 1 IN TOTALITY AND THAT THE DETAILS FURNISHED IS COMPLETE IN ALL RESPECT AND IS SUPPORTED BY THE CREDENTIAL DOCUMENTS ENCLOSED ALONG WITH PART1 TECHNICAL BID.
- BHEL WILL TAKE APPROPRIATE ACTION AS DEEMED FIT , IN CASE, IT IS FOUND AT A LATER DATE THAT THE CONTRACTOR HAD SUPPRESSED THE FACTS AND HAVE NOT FURNISHED THE CORRECT & COMPLETE INFORMATIONS.

DATE.....

PLACE.....

Signature

Name, Designation & Seal of Bidder

CONTRACTOR**ACCEPTING OFFICER (BHEL)**

Form No: F-11

WORK EXPERIENCE PROFILE II OF BIDDER**(To be typed and submitted in Separate sheet and should contain following information)**

DETAILS OF SIMILAR WORKS UNDER PROGRESS									
Sl. No.	Name of work & Agreement No.	Date of Commencement	Stipulated Date of completion	Brief Description of Work	Contract Value in Rs.	% of work completed as on 30/06/2013	Value of work completed as on	Anticipated Date of completion	Name, complete address of the authority from whom the work was awarded
1									
2									
3	ATTACH SEPARATE SHEET FOR FURNISHING THE INFORMATION								
4	IN DETAIL & READABLE WRITING								
5									
6									
7									
		SELF ATTESTED COPIES OF LAST PAYMENT CERTIFICATES, WORK ORDERS AND TDS CERTIFICATES (IN CASE OF WORK DONE FOR PRIVATE SECTORS) ETC. ARE TO BE FURNISHED FOR EVERY WORK ENUMERATED ABOVE . NO WEIGHTAGE WILL BE GIVEN IN THE ABSENCE OF THESE CREDENTIAL DOCUMENTS							

NOTES:

- BIDDERS ARE REQUIRED TO FURNISH ALL THE JOBS OF SIMILAR NATURE WHICH THEY ARE EXECUTING (IN PROGRESS) AT THE TIME OF SUBMISSION OF TENDER, AS PER ABOVE FORMAT.
- BIDDERS HEREBY UNDERTAKE THAT THEY HAVE FURNISHED THE DETAILS SOUGHT AS PER POINT NO. 1 IN TOTALITY AND THAT THE DETAILS FURNISHED IS COMPLETE IN ALL RESPECT AND IS SUPPORTED BY THE CREDENTIAL DOCUMENTS ENCLOSED ALONG WITH PART1 TECHNICAL BID.
- BHEL WILL TAKE APPROPRIATE ACTION AS DEEMED FIT , IN CASE, IT IS FOUND AT A LATER DATE THAT THE CONTRACTOR HAD SUPPRESSED THE FACTS AND HAVE NOT FURNISHED THE CORRECT & COMPLETE INFORMATION

DATE :
Signature

PLACE

Name, Designation & Seal of Bidder

CONTRACTOR**ACCEPTING OFFICER (BHEL)**

FORM No. F- 12

CLIENT'S CERTIFICATE REGARDING PERFORMANCE OF CONTRACTORS**Name & Address of the Client**

.....

Details of works executed by Shri . M/s

.....

1. Name of work with brief particulars :
2. Agreement No. and date:
3. Date of commencement :
4. Stipulated date of completion :
5. Actual date of completion :
6. Details of compensation levied for delay, if any:
7. Tendered amount :
8. Gross amount of the work completed :
9. Name and address of the authority under :
whom work executed
10. Whether the contractor employed qualified : Engineer/Overseer during execution of work?
11. (i) Quality of work (indicate grading) : Outstanding/V.Good/Good/Poor
(ii) Amount of work paid on reduced rate :
basis, if any
12. (i) Did the contractor go for arbitration ? :
(ii) If yes, amount of claim :
(iii) Amount received :
13. Comments on the capabilities of the contractor
 - (a) Technical Proficiency : Outstanding/V.Good/Good/Poor
 - (b) Financial Soundness : Outstanding/V.Good/Good/Poor
 - (c) Mobilization of adequate T & P : Outstanding/V.Good/Good/Poor
 - (d) Mobilization of manpower : Outstanding/V.Good/Good/Poor
 - (e) General behavior : Outstanding/V.Good/Good/Poor

Signature of the Certifying Officer with Official seal

CONTRACTOR

ACCEPTING OFFICER (BHEL)

**POWER OF ATTORNEY for SUBMISSION OF TENDER/SIGNING CONTRACT AGREEMENT
(To be typed on non-judicial Stamp Papers of appropriate value as applicable and notarized)**

KNOW ALL MEN BY THESE PRESENTS, that I/We do hereby make, nominate, constitute and appoint Mr , whose signature given below herewith to be true and lawful Attorney of M/s..... hereinafter called 'Company', for submitting Tender/entering into Contract and inter alia, sign, execute all papers and to do necessary lawful acts on behalf of Company with M/s Bharat Heavy Electricals Ltd, Industrial Valves Plant, Goindwal in connection with.....

..... vide Tender Specification No : , dated

And the Company do hereby agree to ratify and confirm all acts, deeds, things or proceedings as may be lawfully done by the said attorney and by or on behalf of the company and in the name of the company, by virtue of the powers conferred herein and the same shall be binding on the company and shall have full force and effect.

IN WITNESS WHEREOF the common seal of the company has been hereunto affixed in the manner hereinafter appearing on the document.

Dated at , this day of

Director/CMD/Partner/Proprietor

Signature of Mr.....(Attorney)

Attested by:

Director/CMD/Partner/Proprietor

Witness

Notary Public

CONTRACTOR

ACCEPTING OFFICER (BHEL)

Form No: F-14**INDIAN NON JUDICIAL STAMP (Rs. 100/-)****Affidavit to be submitted by applicant Tenderer / Firm****AFFIDAVIT**

I, S/o Sh..... Aged ... Years Resident of Sole Proprietor/ Partner/ Director (as the case may be) of M/s/Shri.....
(Name of firm/ Tenderer with address).....do

Here by solemnly affirm and declare that the following Technical staff (Engineers/ Supervisors) are working as full time staff with me/us /our firm. (Strike out whichever not applicable)

S. No.	Name of Engineers/ Supervisors	Qualification	Passed out in year	Working with we/us firm since	Total Experience in Construction works
1.					
2.					
3.					

I do Here by solemnly affirm and declare that the following Tools, Plants, testing Equipment's are owned by us and are full time available with me/us /our firm. (Strike out whichever not applicable)

S/no	Name of T&P, IMTEs	Quantity Available	Units	Approximate Age of T&P/ IMTEs
1	Concrete mixers of minimum full bag capacity			
2	Fully automatic Batching plant (min. 10 cum capacity) with pump			
3	Mortar Mixer			
4	Concrete vibrators for beam, slab, column, Shutter			
5	Steel shuttering			
6	Steel props			
7	Compressive strength testing machine for concrete/bricks etc			
8	Total station/auto level			
9	Tractor with trolley /Tipper/Transit Mixer			
10	Any other (please mention name)			

I am deponent herein and I am fully acquainted with the facts of the affidavit.

Deponent

It is verified that my above statements are true and correct to the best of my knowledge and belief and nothing is concealed therein.

Place:**Deponent****Identified by me****Date**

**signature with
seal of Ist class Magistrate/Notary Public**

CONTRACTOR**ACCEPTING OFFICER (BHEL)**

Form No: F-15

CERTIFICATE FOR NON BANNED/NON BLACKLIST FIRMS
(To be typed and submitted in the Letter Head of the Company/Firm of Bidder)

To,

**Sr.DGM,
Head/ HR,Civil & MM
BHEL_IVP, Goindwal Sahib
Distt. Tarn-Taran, Punjab**

Ref : 1) NIT/Tender Specification No:

Dear Sir,

I/We certify that none of the partners/directors did not retire as an Engineer of Gazette rank or as any Gazette Officer employed on Engineering or Administrative duties in any Engineering BHEL of the Government of India during the last two years. I also certify that I have neither such a person under my employment nor shall I employ any such person within two years of his retirement except with the prior permission of the Government.

I/We certify that I/We are not banned or blacklisted by any government in past or present. I/WE are also agree for rejection of our offer at any stage of finalization or after finalization as per Clause 29 of Annexure III ' Instructions to the tenderers' if this information is found wrong .

(Signature, date & seal of Authorized Signatory of the bidder)

Date:

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GENERAL CONDITIONS OF CONTRACT FOR LUMP SUM, ITEM RATES AND PERCENTAGE CONTRACT

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CHAPTER- I DEFINITIONS	
1.	In these General Conditions of Contract, the following terms shall have the meaning hereby assigned to them except where the context otherwise requires:-
	The “CONTRACT” means the documents forming the tender and acceptance thereof, together with all documents referred to therein including General and Special Conditions of Contract, Schedules „A“, „B“, „C“, „D“, „E“, and / or General Summary attached to the form of tender, the Bharat Heavy Electricals Limited, Schedule of Rates as amended and in force the Specifications and the Drawings. All these documents as applicable taken together shall be deemed to form one Contract and shall be complementary to one another.
	The “TENDER DOCUMENTS” means the form of Tender the applicable Schedules „A“, „B“, „C“, „D“, „E“, and / or General Summary, General and Special Conditions of Contract and the Specification and / or Drawings as given to Contractors on payment for the purpose of preparing their tenders.
	The “WORK” means the work described in the tender documents in individual work orders and/or accompanying Drawings and Specifications as may be issued from time to time to the Contractor by the Engineer-in-charge within the powers conferred upon them, including all modified or additional works and obligations to be carried out either at the site or at any Factory Workshop or other place as required for the performance of the Contract.
	The “SITE” means the lands and/or other places on, in into or through which the work is to be executed under the Contract or any adjacent land, path or street which may be allotted to or used for the purpose of carrying out the contract.
	The “CONTRACTOR” means the individual, firm or Company, whether incorporated or not undertaking the work and shall include the legal personal representatives of such individuals or the persons composing the firm or Company, or the successors of the firm or Company and the permitted assigns of such individual or firm or Company.
	The “ Engineer-in-charge” means the BHEL Engineer who is in charge for the works referred.

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ACCEPTING OFFICER (BHEL)

<u>CHAPTER II</u>	
	SCOPE OF CONTRACT
2.	Heading to the Contract:
	The heading to these conditions shall not affect the interpretation thereof.
3.	Contract Documents
•	The Accepting Officer shall furnish to the Contractor on demand "FREE OF COST" three copies of signed drawings and one copy of the signed agreement comprising of general and special specification of work during the progress of work, Schedule 'A', 'B', 'C', 'D', 'E' but excluding the general conditions of contract and drawings and three copies of all further drawings issued during the progress of the work.
•	However, for any additional copies of the agreement or drawings required by the Contractor the same will be supplied on payment at the specified cost.
•	The Contractor shall keep one copy of all the Drawings and the Specifications at the site and the Engineer-in-charge or his representative shall have access to them at all reasonable times.
•	None of these documents shall be used by the contractor for any purpose other than that of this contract.
•	The Contractor shall take necessary steps to ensure that all persons employed on any work in connection with this contract have noticed that the Indian official Secrets Act 1923 (XIX of 1923) applies to them and shall continue so to apply even after the execution of such works under the contract.
4.	Works to be Carried Out
•	The Contract shall, except as provided under Schedules "B" and „C" include all labor, materials, tools, plants equipment and transport which may be required in preparation for, and in the entire execution and full completion of the work. Schedule „A" shall be deemed to have been prepared in accordance with good practice and recognized principles and unless otherwise stated, the descriptions given therein shall be held to include waste on materials carriage and cartage, lead, return of empties, hoisting, setting, fitting in position and all other labour necessary in and for the entire execution and full completion aforesaid. Any error in description or quantity in schedule „A" or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the work comprised therein according to the Drawings and Specifications, or from any of his obligations under the Contract. The insertion of the name of any firm of Suppliers in the Tender Documents is for the purpose of obtaining a particular class or quality of materials or workmanship but the articles or materials specified may be obtained from any other firm subject to prior written approval of the Engineer – in – charge.
•	In the case of a discrepancy between Schedule „A" the specification and / or the Drawing, the Accepting Officer shall be the sole deciding authority as to which shall prevail and his decision shall be final and conclusive. If neither Drawings nor Specifications contain any mention of minor details of construction, which in the opinion of the Accepting Officer whose decision shall be final and conclusive, are reasonable and obviously and fairly

CONTRACTOR

ACCEPTING OFFICER (BHEL)

	intended for the satisfactory completion of the work, such details shall be provided by the Contractor without any extra cost as if they were specially mentioned and shall be deemed to be included in the contract.
•	The contractor will be deemed to have satisfied himself as to the nature of the site, local facilities of access and all matters affecting the execution and completion of the work. No extra charges consequent on any mis-understanding in these respects or otherwise will be allowed.
5.	Provisional Items
•	The full amount of provisional lump sums and the value annexed to each provisional item inserted in the tender documents shall be deducted from the contract sum and the value of work ordered and executed thereunder shall be ascertained by measurement or valuation as for deviations.
•	No work under these items is to be begun without instructions in writing from the Engineer-in-charge.
•	The extent of quantities or items described as “Provisional” shall not be held to guarantee or limit the amount and description of the work to be executed by the contractor either in respect of the items concerned or the work as a whole.
•	No addition or deduction shall be made by the Contractor to the amount of the provisional lump sums as included in the tender documents.
6.	Deviations
•	The contractor shall not make any alteration in addition to or omission from the work as described in the tender documents except in pursuance of the written instructions of the Engineer-in-charge. No such deviation from the work described in the tender documents shall be valid unless the same has been specifically confirmed and accepted by the Accepting Officer in writing and incorporated in the contract.
•	The Accepting Officer may deviate either by way of addition or deduction, from the work so described, provided that the contract sum be not thereby varied on the whole by more than the percentage set out in the tender documents. The value of all addition and deductions will be added to, or deducted from the contract sum. Whenever the Accepting Officer intends to exercise such a right, his intention shall specify the deviations which are to be made, the lumpsum assessment or the proposed basis of payment, the extra time allowed, if any, and the date for completion of the entire contract.
•	Any objection by the Contractor to any matter concerning the order shall be notified by him in writing to the Engineer-in-charge within Seven days from the date of such order, but under no circumstances shall the work be stopped (unless so ordered by the Engineer-in-charge) owing to differences or controversy that may arise from such an objection. In the absence of such a notification of objection by the contractor, he will be deemed to have accepted the order and the conditions stated therein. In the event of the contractor failing to agree with the Engineer-in-charge regarding the terms of the proposed deviation, the objection shall be referred to the Project Manager whose decision shall be final conclusive and binding on the Contractor.
7.	Time
•	Time is the essence of the contract and is specified in the tender document or in each individual Work Order.
•	As soon as possible after the contract is let or any substantial Work Order is placed and before work under is to begin, the Engineer-in-charge and the Contractor shall agree to a

	Time and Progress Chart. The Chart shall be prepared in direct relation to the time stated in the Tender Documents or the Work Order for the completion of the individual items there of and/the contract or order as a whole. It shall indicate the forecast of the dates for the commencement of the various trade processes or sequences of the work, and shall be amended as may be required by agreement between the Engineer-in-charge and the Contractor within the limitation of the time imposed in the Tender Documents or Order
•	In the absence of any specific Time and Progress chart to be agreed to between the Contractor and the Engineer-in-charge, the contractor shall ensure and maintain uninterrupted progress of the work such that the entire work shall be completed within the time imposed in the Tender Documents or Order and that the proportion of work completed upto any time in relation to the entire work to be under the Contractor Order shall not be less than the proportion that the time elapsed bears to the total time of completion provided in the Tender Documents or Order.
•	The contractor shall suspend the execution of the work, or any part or parts thereof whenever called upon in writing by the Engineer-in-charge to do so, and shall not resume work thereon until so directed in writing by the Engineer-in-charge. The Contractor will be allowed an extension of time for completion not less than the period of suspension. However, no other claim in this respect for compensation or otherwise however will be admitted. Provided the cause for suspension is not attributable to any default on the contractor's part to proceed with or fulfill the contractual obligations. This may also be extended to allow for alteration of work made by the deviation order.
8.	Stores and Materials
•	The Contractor shall, at his own cost and expense, provide all materials required for the works, other than those listed in Schedule „B“; which are to be supplied by Bharat Heavy Electricals Limited. All materials to be supplied by the Contractor shall be of the best kind as described in the specifications and the Contractor shall, if requested by the Engineer-in-charge, furnish proof to the satisfaction of the Engineer-in-charge, that the materials so comply with the specifications.
•	The contractor shall, at his own expense and without delay, supply samples of materials proposed to be used in the execution of the work for approval of the Engineer-in-charge, who may reject the materials not corresponding either in quality or character to the approved samples.
•	In the case of stores provided under Schedule „B“ the Contractor shall bear the cost of loading, transporting to site, unloading, storing under cover as required assembling and jointing the several parts together as necessary and incorporating or fixing these stores materials in the work, including all preparatory work of whatever description as may be required, and of closing, preparing, loading and returning empty cases or containers to the place of issue without any extra charges.
9.	Delay and Extension of Time:
•	if, in the opinion of Engineer-in-charge the work is delayed:
	i) by reason of abnormally bad weather, OR
	ii) by reason of serious loss or damage by fire, OR
	iii) by reason of Civil commotion, local combination of workmen strike or lockout, affecting any of the trades employed on the work OR.

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	iv) by delay on the part of the agency or tradesman engaged by BHEL in executing work not forming part of this contract, OR
	v) by reason of any other cause which in the absolute discretion of the Engineer-in-charge is (when he is the Accepting Officer of the Contract) beyond the Contractor's reasonable control, than in such case the Accepting Officer on the recommendation of the Engineer-in-charge (or higher authority) may make fair and reasonable extension in the completion dates of the individual items of work or the contract as a whole. Such extension which will be communicated to the Contractor by the Engineer-in-charge in writing shall be final and binding on the Contractor. No other claim in this respect for compensation or other-wise howsoever is admissible. Upon the happening of any such event causing delay, the Contractor shall immediately given notice thereof in writing to the Engineer-in-charge but shall nevertheless use constantly his best endeavor to prevent or make good the delay and shall do all that may reasonably be required to the satisfaction of the Engineer-in-charge to proceed with the work.
10.	Patent Rights:
•	The Contractor shall fully indemnify B.H.E.L or the agent, servant, or employee of B.H.E.L against any action, claim or proceeding relating to infringement or the use of any patent or design or any alleged patent or design rights, and shall pay any royalties which may be payable in respect of any article / or part there of included in the contract.
•	In the event of any claims being made or action brought against B.H.E.L or any agent, or servant or employee of BHEL in respect of matters aforesaid the Contractor shall immediately be notified thereof for taking necessary action provided that payment of indemnity shall not apply when such infringement has taken place in complying with the specific directions issued by the BHEL but the Contractor shall pay any royalties payable in respect of any such use.
11.	Octroi and Other Duties:
•	All charges on account of Octroi, Terminal or Sales Tax and/or other duties on material obtained for the work (excluding materials provided by B.H.E.L on payment) shall be borne by the contractor.
12.	Royalties:
•	Royalties fixed from time to time as per prevalent local rules will be recovered for materials, which the Contractor may be allowed to remove from quarries situated on land which is in charge of the B.H.E.L authorities.
13.	Plant and Equipment:
•	The Contractor, shall at his own expense, supply all tools, plant and equipment (here-in-after referred to as T & P) required for the execution of the contract other than those listed in Schedule „C“ which subject to their availability may be hired by B.H.E.L., to the Contractor or issued free for use in the execution of the work as specified in Tender Documents.
14.	Assignment or Transfer of Contract:
•	The Contractor shall not, without the prior written approval of the Accepting Officer, assign or transfer the Contract or any part thereof, or any share, or interest therein to any other person. No sum of money which may become payable under the Contract shall be payable to any person other than the Contractor unless the prior written approval of the Accepting Officer to the assignment or transfer of such money is given.

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•	(a) Sub Contract:	
	The Contractor shall not sub-let any portion of the Contract without the prior written approval of the Accepting Officer.	
15.	Compliance to Regulations and Bye Laws:	
•	The Contractor shall conform to the provision of any statute relating to the work and regulations and bye-laws of any local authority and of any water and lighting Companies or Undertakings with whose system the work is proposed to be connected. He shall, before making any variation from the drawings or the specifications that may be necessitated for such connections give the Engineer-in-charge notice, specifying the variation proposed to be made and the reasons there for and shall not carry out any such variation until he has received instructions from the Engineer-in-charge in respect thereof. The contractor shall be bound to give all notice required by Statute Regulations or Byelaws as aforesaid and to pay all fees, and taxes payable to any authority in respect thereof.	
	<u>CHAPTER III</u>	
	<u>PERFORMANCE OF THE CONTRACT</u>	
16.	Security Deposit	
16.1	Security Deposit should be collected from The Contractor. The rate of Security Deposit will be as below:	
•	Up to Rs. 10 lakh	10%
•	Above Rs. 10 lakh upto Rs.50 lakh	1 lakh + 7.5% of the amount Exceeding Rs.10 Lakh
•	Above Rs. 50 lakh	4 lakh + 5 % of the amount exceeding Rs.50 Lakh
•	i) Cash (as permissible under the Income Tax Act)	
•	ii) Pay Order, Demand Draft in favour of BHEL.	
•	iii) Local cheques of scheduled banks in the name of BHEL subject to realization.	
•	iv) Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc. (Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged).	
•	v) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act subject to a maximum of 50% of the total security deposit value. The balance 50% has to be remitted either by cash or in the other form of security. The Bank Guarantee format should have the approval of BHEL.	
•	vi) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act . The FDR should be in the name of the contractor, A/C BHEL, duly discharged on the back.	
•	vii) Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start	

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	of the work and the balance 50% may be recovered from the running bills.
•	viii) EMD of The Contractor shall be converted and adjusted against the security deposit.
•	ix) The security deposit shall not carry any interest.
•	Acceptance of Security Deposit against Sl. No. (iv) and (vi) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.
•	All compensation or other sums of money payable by the Contractor to BHEL, under the terms of this Contract or under any other contract with BHEL, may be deducted from the Security Deposit or realized by the sale of the Securities or from the interest arising there from or from any sums which may be due or may become due to the Contractor payable by BHEL, on any account whatsoever against this Contract or any other Contract with BHEL, and in the event of his Security Deposit being reduced by reason of such deductions or sale as aforesaid, the Contractor shall, within seven days thereafter, make good in cash or in securities endorsed as aforesaid, any sum or sums by which the Security Deposit has been so reduced.
•	50% of the Security Deposit / may be refunded on completion of the work after payment of the final bill and the balance 50% of the Security Deposit is refundable only after the expiry of the maintenance period from the date of completion of work as stipulated in the Contract concerned
17.	Order under the contract
•	All orders, notices etc., to be given under the contract shall be in writing typescript or printed and if sent by registered post to the address given in the tender of the contractor, shall be deemed to have been served on the date when in the ordinary course they would have been delivered to him.
•	The contractor shall carry out without delay all orders given to him.
18.	Admission to site
•	The Contractor shall not enter on (other than for inspection purposes) or take possession of the site unless permitted to do so by the Engineer-in-charge. The portions of the Site to be occupied by the Contractor will be clearly defined and marked on the site plan, and the Contractor will on no account be allowed to extend his operations beyond these areas.
•	The Contractor shall provide, if necessary or required at the Site, temporary access there to and shall alter, modify and maintain the same as required from time to time. He shall take out and clear away the access route when no longer required and restoring the area to its original condition.
•	The Engineer-in-charge shall have power to execute other works (whether or not connected with the work in the contract agreement) on the site contemporaneously with the execution of the original work and Contractor shall give reasonable facilities for this purpose.
•	B.H.E.L reserves the right of taking over, at any time, any portion of the site which they may require and the Contractor shall at his own expense clear such portion forthwith. No photographs of the Site or of the work or any part there of shall be taken, published or otherwise circulated without the prior approval of the Engineer-in-charge.
•	No such approval shall however exempt the contractor from complying with any statutory

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	provisions in regard to the taking and publication of such photographs.
•	B.H.E.L Officials connected with the Contract shall have the right of entry to the Site at all times.
•	Engineer - in charge shall have the power to exclude from the site any person whose admission there to may, in his opinion be undesirable for any reason whatsoever.
19.	Contractor's Supervision
•	The Contractor either shall himself supervise the execution of the Contract or shall appoint a competent Agent approved by the Engineer-in-charge to act in his stead. The contractor shall employ an Engineer/Agent having at least a „Degree of Bachelor of Civil Engineering“ from a recognized University/on any work with a Contract value exceeding rupees two lakhs, and having at least a Diploma in civil Engineering from a recognised college, on work with a contract value exceeding Rs. 50,000/- but not exceeding rupees two lakhs.
•	The Employment of an Engineer/Agent as aforesaid shall not be necessary if the Contractor himself in possession of a recognized technical qualification and is in opinion of the Engineer- in-charge capable of receiving instructions of the Engineer-in-charge and of executing the work to the satisfaction of the Engineer-in-charge. If the Contractor fails to appoint a suitable Engineer/ Agent as aforesaid, the Engineer-in-charge shall have full powers to suspend the execution of work and stop payment of any advances that may have become due until such date as a suitable Engineer/Agent is appointed and the contractor shall be held responsible for the delay caused to the work and no extension of time on this account shall be given to him as stipulated in condition (9) above.
•	Orders given to the Contractor's Agent/Engineer shall be considered to have the same force as if they had been given to the Contractor himself.
•	The contractor or his Agent shall be in attendance at the site during all working hours and shall superintend the execution of work with such additional assistance in each trade as the Engineer-in - charge may consider necessary.
•	The contractor or his accredited agent shall attend when required and without making any claim for doing so, either the Office of the Engineer-in-charge or the work site to receive instructions.
•	The Engineer-in-charge shall have full powers, and without assigning any reason to require the Contractor immediately to cease to employ in connection with the Contract any Agent, servant or employee whose continued employment is, in his opinion undesirable
•	The Contractor shall not be allowed any compensation on this account.
20.	LABOUR
•	The Contractor shall employ laborer in sufficient numbers either directly or through sub-contractors to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the Contract and to the satisfaction of the Engineer-in-charge. The Contractor shall not employ in connection with the works any person who has not completed his fifteen years of age.
•	The Contractor shall furnish to the Engineer-in-charge at the intervals specified by him, a distribution return of the number and description by trades of the work people employed on the works. The Contractor shall also submit on the 4 th and 19 th of every month to the Engineer-in-charge a true statement showing in respect of the second half of the preceding month and the 1 st half of the current month (i) the accidents that occurred during the said

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	fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them and (ii) The number of female workers who have been allowed maternity benefit as provided in the Maternity Benefit Act, 1961 or Rules made thereunder and the amount paid to them.
•	The Contractor shall pay to labor employed by him either directly or through sub-contractors wages not less than fair wages as defined in the Contractor's Labour Regulations.
•	The contractor shall in respect of labor employed by him either directly or through sub – contractors comply with or cause to be complied with Contractor's Labour Regulations in regard to all matters provided therein.
•	The Contractor shall comply with the provisions of the Payment of Wages Act 1936, Minimum Wages Act 1948, Employers liability Act 1938, Workmen's Compensation Act 1923, Industrial Disputes Act 1947, Maternity Benefit Act 1961 and Mines Act 1952, Contract Labour Regulation and Abolition Act 1970 or any modifications there of or any other law relating thereto and rules made thereunder from time to time.
•	The contractor shall be liable to pay his contribution and the employees' contribution to the State Insurance Scheme in respect of all labour employed by him for the execution of the contract, in accordance with the provision of " The Employees" State Insurance Act, 1948" as amended from time to time. In case the contractor fails to submit full details of his account of labour employed and the contribution payable, the Engineer-in-charge shall recover from the running bills of contractor an amount of contribution as assessed by him. The amount so recovered shall be adjusted against the actual contribution payable for Employees' State Insurance.
•	The Engineer-in-charge shall on a report having been made by an Inspecting Officer as defined in the Contractor's labour Regulations have the power to deduct from the moneys due to the Contractor any sum required or estimated to be required for making good the loss suffered by the worker or worker by reason of non-fulfillment of the Conditions of the Contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the Contract or non-observance of the said Contractor's Labour Regulations.
•	The Contractor shall indemnify the B.H.E.L against any payments to be made under and for observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractors.
•	In the event of the Contractor committing a default or breach of any of the provisions of the aforesaid Contractor's Labour Regulations, as amended from time to time or furnishing any information or submitting or filling any form / Register/Slip under the provisions of these Regulations which is materially incorrect then on the report of the Inspecting Officers as defined in the Contractor's Labour Regulation, the Contractor shall without prejudice to any other liability pay to the B.H.E.L a sum not exceeding Rs. 50/- as liquidated damages for every default breach or furnishing, making submitting, filling materially incorrect statement as may be fixed by the Engineer-in-charge and in the event of the Contractor's default continuing in this respect, the liquidated damages may be enhanced to Rs. 50/- per day for each day of default subject to a maximum percent of the estimated cost of works put to tender.
•	The Engineer in charge shall deduct such amount from bills or security deposit of the Contractor and credit the same to the Welfare Fund constituted under Regulations. The decision of the Engineer-in-charge in this respect shall be final and binding.
•	Model Rules for Labour Welfare

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•	The Contractor shall at his own expense comply with or cause to be complied with Model Rules for Labour welfare as appended to these Conditions or rules framed by Government from time to time for the protection of health and for making sanitary arrangements for workers employed directly/or indirectly on the works. In case the Contractor fails to make arrangements as aforesaid, the Engineer-in-charge shall be entitled to do so and recover the cost thereof from the Contractor.
•	Safety Code
•	The Contractor shall at his own expense arrange for the safety provisions as appended to these conditions or as required by the Engineer – in – charge, in respect of all labour directly or indirectly employed for performance of the works and shall provide all facilities in connection therewith. In case the Contractor fails to make arrangements and provide necessary facilities as aforesaid, the Engineer– in–charge shall be entitled to do so and recover the cost thereof from the Contractor.
•	Failure to comply with model Rules for Labour Welfare, Safety Code, or the provisions relating to report on accidents and to grant of maternity benefits to female workers shall make the Contractor liable to pay to the B.H.E.L as liquidated damages an amount not exceeding Rs. 50/- for each default or materially incorrect statement. The decision of the Engineer-in-charge in such matters based on reports from the Inspecting Officers as defined in the Contractor's Labour Regulation as appended to these conditions shall be final and binding and deductions for recovery of such liquidated damages may be made from any amount payable to the Contractor.
21.	WATER
•	The Contractor shall allow in his Tender and provide at his cost all water required for the work or his employees on the work, together with all pipes and fittings or other means that may be necessary or required to ensure a proper and ample supply of water for all purposes connected with the work.
•	Water will be supplied from the BHEL supply system, or other sources at one point fixed by the Engineer-in-charge on the site of work at free of cost. The Contractor shall make necessary arrangement for lifting pumping, carrying or conveying the water as required at his own cost.
22.	Temporary Workshops, Stores Etc.
•	The Contractor shall, during the progress of the work provide, erect and maintain at his own expense all necessary temporary workshops, stores, offices, etc., required for the proper and efficient execution of the work. The planning, siting and Construction of these buildings shall have the approval of the Engineer-in-charge and the Contractor shall at all times keep them tidy and in a clean and sanitary condition to the entire satisfaction of the Engineer-in-charge.
•	On completion of the work all such temporary buildings shall be cleared away and the site restored and left in a clean and tidy condition to the entire satisfaction of the Engineer-in-charge.
23.	Stores and Materials on Site
•	All stores and materials required for the work are to be deposited by the Contractor only in places to be indicated by the Engineer-in-charge.
•	Where in accordance with the contract stipulations certain Stores & Materials

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	(for incorporation in the work) are to be issued to the Contractor by the BHEL as detailed under Schedule "B" such items will be so issued only to the extent required for the actual completion of the work as stipulated in the contract. The decision of the Engineer-in-charge regarding the quantities to be issued as above shall be final and binding on the contractor. For any excess quantities consumed on the work up to 5% over the theoretical consumption will be charged at issue rates and excess consumption beyond this limit, their cost will be recovered from the Contractor at punitive rates which will be 100% (Hundred Percent) more than the issue rates of the BHEL as specified in the Instructions to the Tenderers.
•	In regard to the materials and stores which may be issued to the Contractor by BHEL the Contractor shall give the Engineer-in-charge reasonable notice in writing of his requirements of such stores and materials and on the approval of his demand being notified to him, he shall make immediate arrangements for drawing the same. Such stores and materials shall be transported by the Contractor at his own expense direct from the place of issue to the site of the work, unless prior written approval is obtained from the Engineer-in-charge to take them to a Store or Workshop elsewhere.
•	The Contractor shall have to build a weather proof shed for the storage of cement required for 15 days consumption of the work.
•	BHEL Officers connected with the Contract shall have the power at any time to inspect and examine any stores or materials intended to be used in or on the work, whether on the site or at any factory or workshop or other place where such stores or materials are being fabricated or manufactured or at any place where the same are lying and the contractor shall give necessary facilities for such inspection and examination.
•	The Engineer-in-charge shall be entitled to have tests made of any stores or materials supplied by the Contractor who shall provide at his own expense all facilities which the Engineer-in-charge may require for this purpose. If at the discretion of the Engineer-in-charge an independent expert is employed to make any such tests his charges shall be borne by the Contractor only if the test discloses that the said stores or materials are not in accordance with the provisions of the Contract.
•	Should the Engineer-in-charge consider at any time during the construction or re-construction, on prior to the expiry of the "MAINTENANCE PERIOD" that the stores or materials provided by the Contractor are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract (in respect whereof the decision of the Engineer-in-charge shall be final and conclusive) the Contractor, shall on demand, in writing from the Engineer-in-charge specifying the Stores or materials complained of, notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith remove the stores or materials so specified and provide other proper and suitable stores or materials at his own expense; to the entire satisfaction of the Engineer-in-charge and in the event of his failing to do so within a period to be specified by the Engineer-in-charge in his demand aforesaid the Engineer-in-charge may replace within others the stores or materials complained of at the risk and expense in all respects of the Contractor. The liability of the contractor under this condition shall not extend beyond the maintenance period aforesaid except as regards stores or materials which the Engineer-in-charge shall have previously given notice to the contractor to replace. (*MAINTENANCE PERIOD for any work under this Organization will be SIX MONTHS FROM THE DATE OF ACTUAL COMPLETION of the particular work and handing over to B.H.E.L) or as specified in Special conditions of contract.
•	All stores and materials brought to the Site shall become and remain the property of B.H.E.L and shall not be removed from the site without prior written approval of the

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	Engineer-in-charge. However, when the work is finally completed, the Contractor shall at his own expense forthwith remove from the site all surplus stores or materials originally supplied by him and upon such removal; the same shall revert in and become the property of Contractor. All B.H.E.L Stores and materials issued to Contractor for incorporation or fixing in the work and which, making due allowance for reasonable wear and tear/or waste, have not on completion of the work been so incorporated or fixed, shall be returned by the Contractor at his own expense to the place of issue.
•	Credit for surplus stores and/ or materials returned by the contractor to B.H.E.L will be given to him at a price based on the prevailing market rate but not exceeding that at which the said stores and materials were originally issued to him but due consideration shall be given to the allowance claimed by B.H.E.L in respect or any depreciation or damage suffered by the stores and/or materials whilst in the custody of the Contractor regarding which the decision of Engineer-in-charge shall be final and conclusive.
•	If, in the opinion of the Engineer-in-charge (which shall be final and conclusive) any stores, supplied by B.H.E.L have either during currency of the work or after completion of the work whilst under the custody of the Contractor, become damaged to such an extent that they cannot be usefully utilized, either in the same work or in other works, the Engineer-in-charge shall not accept the stores and in the event of his rejection the contractor shall be charged for the said Stores at a rate as fixed by the Accepting Officer. The Contractor shall not be entitled to any claim whatsoever on this account.
24.	Tools and Plants on site:
•	All tools, plants and equipment brought to the site shall become the property of B.H.E.L and shall not be removed from the site without the prior written approval of the Engineer-in-charge when the work is finally completed or the Contract is determined for reasons other than the default of the Contractor he shall forthwith remove from the site all tools, plants, equipment etc., (other than those as may have been provided by B.H.E.L) and upon such removal, the same shall in, and become the property of the Contractor.
25.	Statement of Hire Charges:
•	A monthly detailed statement of the hire charge incurred in respect of B.H.E.L tools, plants, equipment etc., shall be given to the Contractor by the Engineer-in-charge.
26.	Precaution Against risks:
•	The Contractor shall be responsible for providing at his own expense, for all precautions to prevent loss or damage from any and all risks and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose until the works have been handed over complete in all respect of the Engineer-in-charge.
•	The Contractor shall provide all watchmen necessary for the protection of the site, the work, the materials, tools, plants, equipments and anything else lying on the Site during the progress of the work. He shall be solely responsible for and shall take all reasonable and proper steps for protecting, securing, lighting and watching, all places on or about the work and the Site which may be dangerous to any person whomsoever.
27.	Notices and Fees:
•	The Contractor shall give all notices required by any Statutory provision or by the regulations and/or bylaws of any local Authority and/or of any Public Service, Company or Authority affected by the work or with whose system the same are or will be connected. The Contractor shall pay and indemnify B.H.E.L against any fees and charges payable under

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	such Acts. Regulation and/or byelaws in respect of the work and shall make and supply all drawings and plans required in connection with any such notice.
28.	Setting out of the Works and Protective and Maintaining Signals and Works:
•	The Engineer-in-charge shall supply dimensioned drawings, levels and other information necessary to enable the contractor to set out the work. The Contractor shall at his own expense set accurately according to the drawings and figured dimension thereon, all the work comprised in the contract and any extras or additions there-to and shall be solely responsible for their being so set out and executed. All bench marks, pegs, signals on the surface, alignment stones, milestones and all similar marks whether put in by B.H.E.L Authorities for the purpose of checking the Contractor's work or in the nature of permanent survey marks will during the tenure of the contract, be under the care of the Contractor who shall, at his own expense, take all proper and reasonable precautions and care to preserve and maintain them in their true position. In the event of these marks being disturbed or obliterated by accident or due to any other cause whatsoever, the same may, if deemed necessary, be replaced by the Engineer-in-charge at the Contractor's expense and the cost thereof deducted from any money then or thereafter becoming due to the Contractor.
•	Where requested by the Contractor, the level marks, center line and chainage pegs corresponding to those shown on the Drawing will be pointed out to the Contractor on the ground but all bench marks or chainage pegs additional to those shown on the Drawing will be set out by BHEL authorities.
29.	Site Drainage:
•	All water that may accumulate on the site during the progress of the work or in trenches and excavations shall be removed to the entire satisfaction of the Engineer-in-charge and at Contractor's expense.
30.	Excavations, Relics Etc.
•	Material of any kind obtained from excavation on the site shall remain the property of BHEL and shall be disposed off as Engineer-in-Charge directs.
•	All gold, silver, oil and other minerals of any description and all precious stones, coins, treasures, relics, antiques and other similar items which may be found in or upon the site shall be the property of Bharat Heavy Electricals Limited and the Contractor shall duly preserve the same to the satisfaction of the BHEL and shall from time to time deliver the same to such person or persons as the B.H.E.L may appoint to receive the same
31.	Foundations
•	The Contractor shall not lay any foundations until the excavations for the same have been examined and approved in writing by the Engineer-in-charge.
32.	Covering-in Work
•	The Contractor shall give reasonable notice in writing to the Engineer-in-charge whenever any work is to be permanently covered up or concealed, whether by earth or other means so that it can finally be inspected or measured if necessary. In default of so doing, the Contractor shall, if required by the Engineer-in-charge uncover such work at his own expense.
33.	Approval of works by Stages:
•	All work embracing more than one process shall be subject to examination and approval at each stage thereof and the Contractor shall give due notice in writing to the Engineer-in-

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	charge when each stage is ready. In default of such notice being received, the Engineer-in-charge shall be entitled to approve the quality and extent thereof at any time he may choose and in the event of any dispute, the decision of the Engineer-in-charge thereon shall be final and conclusive.
34.	Execution of the Work.
•	The work shall be executed in a workman-like manner and to the satisfaction in all respects of the Engineer-in-charge.
•	The Engineer-in-charge will communicate or confirm his instructions to the Contractor in respect of the execution of the Work in a “Work Site Order Book” maintained at his office and the Contractor shall visit this office daily and shall confirm receipt of such instructions by signing the relevant entries in this book. Such entries will rank as order or notices in writing within the intent and meaning of these conditions.
35.	Day Work:
•	No day-work shall be performed without the prior written instructions of the Accepting Officer.
•	The Contractor shall give to the Engineer-in-charge reasonable notice of the start of any work ordered to be executed by day-work and shall deliver to the Engineer-in-charge within two days of the end of each pay week a return in duplicate giving full detailed accounts of labour and materials for that pay-week. One copy of each of these returns, if found correct, will be certified by the Engineer-in-charge and returned to the contractor and must be produced at the time of adjustment of accounts.
•	An invoice in duplicate signed by the Contractor or his agent shall be sent with each delivery of materials for day-work and the Contractor will be furnished with a receipt signed by the Engineer-in-charge specifying the description, quantities weight or measurement (as the case may be) of the articles approved, reference will be made in this receipt in the return aforesaid and the Contractor’s Bill.
•	In the case of Lump sum Contracts, the rates to be charged and the percentage addition for profit and establishment charges, etc., will be agreed upon between the Accepting Officer and the Contractor prior to the execution of the work.
36.	Inspection of the work.
•	B.H.E.L Officers concerned with the Contract shall have power at any time to inspect and examine any part of the work and the Contractor shall give such facilities as may be required to be given for such inspection and examination Should Engineer-in-charge consider, at any time during the expiry of the maintenance period, that any work has been executed with unsound, imperfect or unskilled workmanship or of a quality inferior to that contracted for or not otherwise in accordance with the contract (in respect) whereof the decision of the Engineer-in-charge shall be final and conclusive the Contractor shall on demand in writing from the Engineer-in-charge specifying the fault 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 be required at his own expense to the entire satisfaction of the Engineer-in-charge and in the event of his failing to do so within a period to be specified by the Engineer-in-charge in his demand as aforesaid, the Engineer- in-charge may carry out the work by other means at the risk and expense in all respects of the Contractor. However, the liability of the Contractor under this condition shall not extend beyond the maintenance period except as regards workmanship which the Engineer-in- charge shall have previously given notice to the Contractor to rectify.

37.	Responsibility for Building:
•	In the event of any building or part of any building being handed over to the Contractor for the execution of work thereto under the provisions of the Contract, he shall give a written receipt for all fixtures, glass etc. and he shall be required to make good at his own expense all damages resulting from any cause whatsoever while in his charge and on completion of the work to deliver the said building or part thereof in a clean state complete in every particular to the entire satisfaction of the Engineer-in-charge.
38.	Insurance
•	The contractor shall within one month after the date of the acceptance of the contract, insure the work against loss or damage to the contract works, temporary work and materials erected in performance of the contract on “all risks” basis from the time of arrival on site until taken over by BHEL on completion of the contract.
•	The cover shall also include wherever necessary the risks of testing including breakdown or explosion of plant and machinery undergoing testing, trial and commissioning operations. The insurance shall also specifically cover removal of debris cost. The sum insured shall represent the estimated full value of the contract works inclusive of value of free supply materials by BHEL, transport charges, customs dues, express freight, overtime charges, cost of Construction, value of constructional plants and machinery, removal of debris and escalation of costs where the contract includes a maintenance period, the insurance cover shall specifically include the contractors’ liabilities during the maintenance period. The insurance shall also be extended to cover third party personal injury and property damage for a sum to be specified by BHEL. The insurance shall be effected in the name of BHEL and the contractor shall submit to BHEL a draft of the insurance policy for approval. The policy when issued will be lodged with BHEL together with receipts of premium for such insurance and the contractor shall maintain such policies in force until the obligations of the contractor are fully discharged.
•	If the contractor fails to comply with the terms of this condition the Accepting officer may insure the work and may deduct the amount of premiums from any money that may become payable to the contractor or may at his discretion refuse payment of any advances to the contractor until the contractor shall have complied with the terms of this condition. This provision does not, however, absolve the contractor of his responsibility for taking up the insurance. The contractor is, therefore, primarily responsible for taking up the insurance in time.
39.	Damage and loss to private property and injury to workmen
•	The contractor shall at his own expense reinstate and make good to the satisfaction of the Engineer-in-charge and pay compensation for any injury, loss or damage occasioned to any property or rights whatever including property and rights of B.H.E.L, (or agents, servants or employees of B.H.E.L) the injury loss or damage arising out of or in anyway in connection with the execution or purported execution of the contract and further the contractor shall indemnify B.H.E.L, against all claims enforceable against B.H.E.L, or any agent, servant, or employee of B.H.E.L a private person, in respect of any such injury (including injury resulting in death loss or damage to any person) whosoever or property, including all claims which may arise under the workmen’s Compensation Act or otherwise, or which would be enforceable against B.H.E.L.
40.	Completion
•	The works shall be completed to the entire satisfaction of the Engineer-in-charge and in accordance with the Contractor’s forecast of Time and Progress where operative, and all unused stores and materials, tools, plants, equipments, temporary buildings and things shall

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	be removed and the site and work cleared of rubbish and all waste materials and delivered up clean and tidy to the satisfaction of the Engineer-in-charge at the Contractor's expense and/or before the Scheduled date of completion.
•	The B.H.E.L shall have power to take over from the Contractor from time to time each sections of the work as have been completed to the satisfaction of the Engineer-in-charge.
•	In case the Contractor fails to remove any of his properties, assets or fails to clear the rubbish and waste materials within 30 days of the completion of the contract, it is lawful for the contractee, that is BHEL to take such action as it deems fit to clear dispose of such properties, assets or such waste materials and charge the contractor any expenses incurred thereon.
•	The Engineer-in-charge shall certify to the Contractor the date on which the work is completed and the state thereof.
•	The Engineer-in-charge shall also certify to the Contractor the state of the work at the end of maintenance period, where applicable.
41.	Compensation for Delay:
•	If the contractor fails to maintain the required progress in terms of condition 7 or to complete the work and clear the site on or before the contracted or extended period of completion, he shall, without prejudice to any other right or remedy of the B.H.E.L on account of such breach, pay as agreed compensation an amount calculated as stipulated below or such smaller amount as may be fixed by the BHEL on the contract value of the work for every week that the progress remains below that specified in condition 7 or that the work remains incomplete.
•	This will also apply to items or group of items for which separate period of completion has been specified.
•	For this purpose the term „Contract Value“ shall be the value at contract rates of the work as ordered.
	a. Completion period (as originally-stipulated) -- at 1 percent per week. Not exceeding 6 months.
	b. Completion period (as originally-stipulated) -- at ½ percent per week Exceeding 6 months and not exceeding 2 years.
	c. Completion period (as originally-stipulated) -- at¼ percent per week Exceeding 2 years.
•	Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed the under noted percentage of the contract value or of the contract value of the item or group of items of work for which a separate period of completion is given:
	Completion period (as originally-stipulated) -- 10 percent. Not exceeding 6 months.
	Completion period (as originally-stipulated) -- 7½ percent Exceeding 6 months and not exceeding 2 years
	Completion period (as original-stipulated) -- 5 percent. Exceeding 2 years
•	The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the B.H.E.L.
42.	Laws Governing the Contract:
	This contract shall be governed by the Indian Laws for the time being inforce.

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43.	Cancellation of Contract for Corrupt Acts:
•	The Accepting Officer, whose decision shall be final and conclusive, shall, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to Bharat Heavy Electricals Limited, cancel the contract in any of the following cases and the Contractor shall be liable to make payment to B.H.E.L for any loss or damage resulting from any such cancellation for default.
•	If the Contractor shall:
	a) Offer or give or agree to give to any person in BHEL service any gift or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do a day act in relation to the obtaining or execution of this or any other contract for BHEL service OR
	b) Enter into a contract with B.H.E.L in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to the Accepting Officer, OR
	c) Obtain a contract with B.H.E.L as a result of ring tendering or by non bonafide methods of competitive tendering without first disclosing the fact in writing to the Accepting Officer.
44.	Cancellation of Contract for Insolvency, Assignment or Transfer or Sub- Letting of Contract:
•	The Accepting Officer, without prejudice to any other right or remedy which shall accrue thereafter to B.H.E.L shall cancel the contract in any of the following cases:If the Contractor,
	a) Being an individual, or if a firm any partner thereof shall at any time be adjudged bankrupt or have a receiving order or orders for administration of his Estate made against him or shall take any proceedings, for liquidation or composition under any Bankruptcy Act for the time being in force or make any conveyance or assignment of his effects of composition or arrangement for the benefit of his creditor or purport to do so, or if any application be made under any Bankruptcy Act for the time being in force for the sequestration of his Estate or if a trust deed be granted by him on behalf of his creditors, OR
	b) Being a Company, shall pass a resolution or the Court shall make an order for the liquidation of its affairs, or a Receiver or Manager on behalf of the debentures holders shall be appointed or circumstances shall arise which entitle the court or debentures holders to appoint a Receiver or Manager OR.
	c) Assigns, transfers, sub-lets or attempts to assign, transfer or sub-let any portion of the work without the prior written approval of the Accepting Officer. OR
	d) Shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.
•	Whenever the Accepting Officer exercises his authority to cancel the Contract under this condition, he may complete the work by any means at the Contractor's risk and expense provided always that in the event of cost of the completion (as certified by Engineer-in-charge which is final and conclusive) being less than the contract cost, the advantage shall accrue to the BHEL and that if the cost of completion exceeds the money due to the Contractor under the contract, the Contractor shall either pay the excess amount ordered by the Engineer-in- charge or the same shall be recovered from the Contractor by other means.
•	Engineer-in-charge will have powers to take possessions of the site and any materials, constructional plant, implements, stores, etc, thereon and or carryout the work by any means at the risk and cost of the contractor.

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●	In case the BHEL completes the work under the provisions of this condition the cost of such completion to be taken into account in determining the excess cost to be charged to the contractor under this Condition shall consist of the cost of materials purchased and/or labour provided by the BHEL with an addition of such percentage to cover superintendence and establishment charges as may be decided by the Project Manager/Project Engineer whose decision shall be final and conclusive.
●	If the contractor fails to pay the excess sum within a period of 30 days, the Engineer-in-charge shall have the right to sell any or all of the contractor's unused materials, constructional plant implements, temporary buildings, etc., and apply the proceeds of sale thereof towards the satisfaction of any sum due from the contractor under the contract and if thereafter be any balance outstanding from the contractor, it shall be recovered in accordance with the provisions of the contract.
45.	Cancellation of contract in part or in full for contractor's default:
●	If the Contractor:
	(a) makes default in commencing the work within a reasonable time from the date of handing over of the site and continue in that state after a reasonable notice from Engineer-in-charge, OR
	(b) in the opinion of the Engineer-in-charge at any time, whether before or after the date or extended date for completion, makes default in proceeding with the work, with due diligence and continue in that state after a notice of seven days from Engineer-in-charge, (or)
	(c) fails to comply with any of the terms and conditions of the contract or after 7 days' notice in writing with orders properly issued there under, (OR)
	(d) Fails to complete the work order and items of work individual dates for completion and clear the site on or before the date of completion or fails to achieve the progress as set out under clauses 7 of these General Conditions of Contract.
●	The Accepting Officer may, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to B.H.E.L cancel the contract as a whole or in part thereof or only such work order or items of work in default from the contract. Whenever the Accepting Officer exercises his authority to cancel the contract as a whole or in part under this conditions he may complete the work at the Contractor's risk and cost, provided always that in the event of the cost of completion (as certified by Engineer-in-charge which is final and conclusive) being less than the contract cost the advantage shall accrue to the B.H.E.L if the cost of completion exceeds, the money due to the contractor under this contract, the contractor shall either pay the excess amount ordered by Project Manager or the same shall be recovered from the contractor by other means. Engineer-in-charge will have power to take possession of the site and any materials, constructional plant, implements, Stores, etc., thereon.
●	In case the B.H.E.L completes the work or any part thereof under the provisions of this conditions the cost of such completion to be taken in to account in determining the excess cost to be charged to the contractor under this conditions shall consists of the cost of materials purchased and/or labour provided by the B.H.E.L with an addition of such percentage to cover superintendence and establishment charges as may be decided by the Project Manager/Engineer whose decision shall be final and conclusive.
●	If the contractor fails to pay the excess sum within a period of 30 days, the Engineer-in-charge shall have the right to sell any or all of the contractor's unused materials, constructional plant implements, temporary buildings, etc, and apply the proceeds of sale thereof towards the satisfaction of any sum due from the contractor under the contract and if thereafter be any balance outstanding from the contractor it shall be recovered in accordance with the provision of the contract.

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46.	Termination of Contract for Death
•	Without prejudice to any of the rights or remedies under this contract if the contractor dies, the accepting Officer shall have the opinion of terminating the contract without compensation to the contractor.
47.	Special Powers of Determination
•	If at any time after the acceptance of the tender B.H.E.L shall for any reason whatsoever not require the whole or any part of the work, to be carried out the project Manager/Engineer shall give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the foreclosing of the work.
•	He shall be paid at Contract rates, for the full amount of the work executed including such additional works, e.g. clearing of site, etc., as may be rendered necessary by the said fore closing. He shall also be allowed a reasonable payment (as decided by the Accepting Officer) for any expenses sustained on account of labour and materials collected but which could not be utilised on the work, as verified by the Engineer-in-charge. Neither shall the Contractor have any claim for compensation on account of any alterations having been made in the original specifications, drawings, designs and instructions, involving any curtailment of the work as originally contemplated.
48.	Fair Wage
	a) The contractor shall pay not less than the “ Fair Wage” to labourers engaged by him on the work. “Fair Wage” means wage whether for time or piece work notified at the time of inviting tenders for the work and where such wages have not been notified the wages prescribed by the Project Manager/Engineer for the stations at which the work is done.
	b) The Contractor shall notwithstanding the provision of any contract to the contrary, cause to be paid a “Fair Wage” to labourers indirectly engaged on the work, including any labour engaged by the Sub- Contractors in connection with the said work, as if the labourers had been directly employed by him.
	c) In respect of labourers directly or indirectly employed on the work for the performance of the Contractors part of this Agreement, the Contractor shall comply with or cause to be complied with B.H.E.L Contractor’s Labour Regulations (appended here to as Annexure „A” to these conditions) in regard to payment of wages, wage period deduction from wages, recovery of wages not paid and deductions unauthorisedly made, maintenance of wage book, wage-slips publication of scale of wage and other terms of employment inspection and submission of periodical returns and all other matters of alike nature.
	d)The Engineer-in-charge concerned shall have the right to deduct from the money due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfilment of the conditions of the contract for the benefit of the workers non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the contract or non-observance of the regulations.
	e)The Contractor shall be liable primarily for all payments to be made under the contract and for the observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractors.
	f)The regulations aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this Contract.

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CHAPTER IV	
<u>VALUATION AND PAYMENT</u>	
49.	Records and Measurements:
•	All items having a financial value shall be entered in the B.H.E.L Measurement Book so that a complete record is obtained of all works performed under the Contract. Buildings, etc., priced in Schedule „A” as a unit lump sum will be entered by number at the unit lump sum.
•	Work carried out for agreed lump sum will be described and similarly recorded.
•	Lump sum omissions will be entered for deduction. Measurement shall be restricted to that required to ascertain the financial liability of B.H.E.L under the contract.
•	Work which fails to be measured in detail shall be measured physically, without reference to any local custom that may obtain excepting where it may otherwise be directed in the tender documents. The measurements shall be taken jointly by any person duly authorized on the part of the BHEL and by the Contractor.
•	The Engineer-in-charge shall give reasonable notice in writing to the Contractor of appointment for measurement.
•	The Contractor shall, without extra charge, provide assistance with appliance and other things necessary for measurement.
•	The Contractor shall bear all the cost of measurement of his work.
•	Measurement shall be entered in the B.H.E.L Measurement Book and signed and dated by both parties each day at the Site on completion of measurement. If the Contractor objects to any of the measurements recorded on behalf of the B.H.E.L a note to that effect will be made in the BHEL Measurement Book or against the item or items objected to; and such note shall be signed and dated by both the parties engaged in taking the measurement.
•	If, as a result of such objection, it becomes necessary to re-measure the work wholly or in part, the expense of such re- measurement shall be borne by the party requiring the measurement.
•	Measurement to be re-taken, provided that a net error is found by this remeasurement to amount to less than 5% (five percent) of the value as recorded by the first measurement. But, where the net errors amount to 5% and over of the said value, then the cost is to be borne by the other party. In any case, if the net value of errors found exceeds Rs. 500/- the expense of re-measurement is to be borne by the other party. If the Contractor’s representative fails to attend when required, the Engineer-in-charge shall have power to proceed by himself to take measurement and in that case these measurements shall be accepted by the Contractor as final.
•	The contractor shall, once every month, submit to the Engineer-in-charge with a copy to the Civil Manager/Senior Engineer details of his claims for the work done by him up to and including the previous month which are not covered by his Contract Agreement in any of the following respects;
	a. Deviation from the items and Specifications provided in the contract documents.
	b. Extra Items/New Items of work
	c. Quantities in excess of those provided in the contract schedule.
	d. Items in respect of which rates have not been settled. He should, in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claim and that no further claims shall be raised by him in respect of the work done up to and

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	including the period under report.
•	Except where any general or detailed description of the work in quantities expressly shows to the contrary, schedule of quantities shall be deemed to have been prepared and measurements shall be taken in accordance with the procedure set forth in the schedule of rates specification notwithstanding any provision in the relevant standard method of measurement or any general or local custom. In the case of items which are not covered by the schedule of rates / specification, measurements shall be taken in accordance with relevant standard method of measurement issued by the Indian Standard Institution or as per standard engineering practice.
50.	Valuation of Deviations:
•	Rates for deviated items of work will be fixed as follows:-
•	1.For any item of work required to be carried out after the contract has been awarded and which is not covered by Contractor's Schedule but is covered by CPWD Delhi Schedule of rates 2012 the rate payable for such a fresh item will be derived from CPWD Delhi Schedule of rates 2012 by the method of proportion as follows:
•	In the same proportion to rate in CPWD Delhi Schedule of rates 2012 as the tendered rate for the nearest analogous item of work in Contractor's schedule bears to rate for the particular analogous item of work in CPWD Delhi Schedule of rates 2012.
•	If a single appropriate analogous item of work is not available in both Schedule (Contractor's and CPWD Delhi Schedule of rates 2012) then the method of proportion will be applied to the nearest analogous group of items available in both the Schedules referred to i.e. in the same proportion as the total tendered cost of that particular group of items (the sum of the products of the tendered rates and the quantities for which orders are placed bears to the total cost of the same items and quantities at the CPWD Delhi Schedule of rates 2012
•	If even an appropriate analogous group of items is not available in Contractor's Schedule and CPWD Delhi Schedule of rates 2012 , then the methods of proportion will be applied to all those items of the whole work, which are available in both the Schedules and for which orders have been placed on the contractor, i.e., in the same proportion as the total cost of all these items of work (the sum of the products of the tendered rates and the quantities for which orders are placed) bears to the total cost of the same items and qualities at the B.H.E.L Schedule of Rates.
•	If any work not covered by any of the foregoing is ordered on the Contractor, the basis of payment shall be decided by the Accepting Officer whose decision shall be final and conclusive and binding on the parties.
•	The selection of analogous items or analogous group of items referred to above shall be done by the Engineer-in-charge. Where the rates for deviated items or new items of work can be derived by the selection of different analogous items or analogous group of items, the lowest of all such derived rates shall be taken as the correct rate.
•	In the case of the contracts for which the Engineer-in-charge is the Accepting Officer, all disputes regarding the settlement of rates of deviated or new items or work shall be referred to the Deputy Manager/Manager whose decision shall be final and conclusive as the case may be.
51.	Reimbursement / Refund on Variation in Price, Materials:
•	If after submission of the tender and/or during the progress of the works, the price of any material (not being a material supplied from the B.H.E.L store in accordance with the Conditions of the Contract) is increased or decreased by an Act of Legislature (Central or

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	State) and/or any notification there under or on account of new duties or levies such as octroi or on account of increase or decrease in such duties affecting the price of materials required for incorporation in the works and made from materials of which the price has increased or decreased as aforesaid and the Contractor has thereupon to pay in respect of such material or item a price which is higher or lower than the price of that material or item as prevailing immediately before the passing of such Act or levying, increasing/ decreasing of such duty, the B.H.E.L shall incase of increase in price or the duty reimbursed to the contractor and incase of decrease in price, the B.H.E.L shall be entitled to a refund of the reduction price or the reduction in duty. Provided, however no reimbursement or refund shall be made if the increase/decrease is not more than 10% of the said price, and if so, the reimbursement or refund shall be made only on the excess over 10% provided always that any such increase shall not be payable if, in the opinion of the Deputy Manager/Manager (whose decision shall be final and conclusive) the increase is attributable to the delay in the execution of the contract within the control of the contractor or that any such increase has become operative after the contracted/or extended date of completion of the work or items of work in question.
•	The Contractor shall, for the purpose of this condition, keep such books of account and other documents as are necessary to show the amount of any increase claimed or any reduction available and shall allow inspection of the same by any duly authorized representative of the B.H.E.L and further shall at the request of the Engineer-in-charge furnish for verification such other information of the Engineer-in-charge may require.
•	The Contractor shall within a reasonable time of his becoming, aware of any alteration in the prices of any such materials, give notice thereof in writing to the Engineer-in-charge stating that the rate is submitted in pursuance to this condition together with all information relating thereto which he may be in a position to supply.
52.	Advances on Account:
•	No payment shall be made for work estimated to cost less than Rupees FIVE THOUSAND till the whole of the work shall have been completed and a certificate of completion given by the Competent Authority.
•	In the case of work estimated to cost more than Rupees FIVE THOUSAND the contractor may at intervals of not less than one month or as otherwise provided for in the Contract Documents, counting from the date on which order to commence work is given by Engineer- in-charge submit claims on B.H.E.L forms for payment of advances on account of work done and of materials delivered in connection with the Contract.
•	The contractor shall be paid in respect of such claims to the extent approved and passed by the Engineer-in-charge subject a maximum of 90% of the value of the work actually executed to the satisfaction of the Engineer-in-charge. The certificate of the Engineer-in-charge regarding such approval and passing of the sums so payable shall be final and conclusive against the Contractor.
•	“After the full amount of Security Deposit is made up through the 10% deduction from On account” bills, 100% payment of all subsequent bills may be made to the Contractor.

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•	The Contractor may also be paid during the progress of the work 75% of the value of any materials which are in the opinion of the Engineer-in-charge in accordance with the Contract, and are actually required for incorporation in the work and which have reasonably been brought to the site in connection therewith and are adequately stored and / or protected against damage by weather or other causes, but which have not at the time of payment of the advance been incorporated in the work on furnishing a formal hypothecation deed. Payment of such advances, however, shall be purely at the discretion of the Deputy Manager/Senior Engineer provided always that payments shall not be made under these periodical certificates in respect of perishable materials like lime, cement, timber, sand, kankar, etc., Any sums/due from the Contractor on account of Tools and Plant, Stores or any other items provided by B.H.E.L shall be deducted from the respective advances, the Engineer-in-charge shall from time to time certify the sums payable to the contractor after retaining the reserves.
•	Any certificate relating to work done or materials delivered may be modified or corrected by any subsequent interim certificate or by the final certificate and no certificate of the Engineer- in-charge supporting an advance payment shall itself be conclusive evidence that any work or materials to which it relates are in accordance with the contract. All such intermediate payments shall be regarded as advances against the final payment only and shall not be considered as an admission of the due performance of the contract or any part there of in any respect or the accruing of any claim whatsoever.
•	Such intermediate payment shall not conclude, determine or affect in any way the powers of the Engineer-in-charge as to the final settlement and adjustment of the accounts or otherwise, or in any way vary or affect the contract.
53.	Final Bill
•	As soon as possible after the completion of the work to the satisfaction of the Engineer-in-charge, the contractor shall forward a certified final account on BHEL form, in duplicate.
•	It shall be accompanied by all abstracts, vouchers etc., in support thereof and shall be prepared in the manner prescribed by the Engineer-in-charge.
•	No claims will be entertained after the receipt of the final B ill.
•	The Contractor shall be entitled to be paid the final sum less the value of payments already made on account subject to certification of the final bill by the Engineer-in-charge. Any sums due from the contractor on account of Tools & Plant, Stores or any other items provided by BHEL not yet recovered from the contractor shall be deducted from the final sum aforesaid.
•	No charge shall be allowed to the Contractor on account of the preparation of the final bill.
54.	Payment of Bills
•	All payment to be made to the Contractor under this contract shall be by Electronic Fund Transfer / RTGS only (Within a reasonable time after the Certification by the Engineer-in-charge).
55.	Recovery from Contractor:
•	Whenever under the contract any sum of money shall be recoverable from or payable by the contractor the same may be deducted from any sum then due or which at any time thereafter may become due to the Contractor under the contract or under any other Contract with BHEL or from his Security Deposit or he shall pay the claim on demand.
56	Post Technical Audit of Work and Bills:
•	BHEL reserves the right to carry out a post-payment audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and to enforce recovery of any sums becoming due as a result thereof in the manner provided in the preceding

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	sub- paragraphs provided however that no such recovery shall be enforced after three years of passing the final bill.
57.	Refund of Security Deposit:
•	50% of the Security Deposit mentioned in condition 16 above, may be refunded to the contractor in respect of all contracts on completion of work and after payment of final bill and the balance 50% on expiry of the maintenance period, (described under clause 23) provided the contractor shall have rendered a “No-Demand” Certificate. In case of works where maintenance period is not involved 100% of the Security Deposit may be refunded after payment of final bill provided that the contractor shall have rendered a “No-Demand Certificate”
58.	Arbitration:
•	Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the Executive Director / General Manager of BHEL and if ED is unable or unwilling to act, to the sole arbitration of some other person appointed by the ED / General Manager, willing to act as such arbitrator. The cases referred to arbitration shall be other than those for which the decision of the Manager / Senior Engineer / Engineer-in-charge is expressed in the contract to be final and conclusive. There will be no objection if the arbitrator so appointed is an employee of B.H.E.L and that he had to deal with the matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matters in dispute or difference.
•	The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, such Executive Director / General Manager as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the contract. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.
•	Subject as aforesaid the provision of the Arbitration & Reconciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.
•	It is a term of the contract that the party involving arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.
•	The arbitrator(s) may from time to time with consent of the parties enlarge the time for making and publishing the award.
•	The work under the Contract shall, if reasonably possible, continue, during the arbitration proceedings and no payment due or payable, to the Contractor shall be withheld on account of such proceeding.
•	The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the Parties fixing the date of first hearings.
•	The arbitrator shall give a separate award in respect of each dispute or difference referred to him.

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●	The venue of arbitration shall be such place as may be fixed by the Arbitrator in his sole discretion.
●	The award of the arbitrator shall be final, conclusive and binding on all parties to this contract. In the event of disputes or differences arising between one public sector enterprise and a Govt. Department or between two public sector enterprises the above stipulations shall not apply the provisions of BPE office memorandum No. BPE/CL 001/76MAN / 2 (1.10) 75-BPE (GM-1) dated 1 st January 1976 or its amendments for arbitration shall be applicable

ANNEXURE V
SPECIAL CONDITIONS OF CONTRACT

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1.0	INTENT OF THE SPECIFICATION
1.1	The intent of this specification is to provide services for execution of the Project according to modern and proven techniques and codes. The omission of specific reference to any method, equipment or material necessary for the proper and efficient services towards construction of buildings shall not relieve the contractor of the responsibility of providing such services / facilities to complete the work or portion of work awarded to him. The quoted / accepted rates / price shall deem to be inclusive of all such contingencies.
1.2	The work shall conform to dimensions and tolerances given in various drawings and documents that will be provided during construction. If any portion of works is found to be defective in workmanship and not conforming to drawings / documents or other stipulations, the contractor shall dismantle and re-do the work duly replacing the defective materials at their own cost, failing which recoveries, as determined by BHEL, shall be effected from contractor's bills.
1.3	It is not the intent of this specification to specify herein all the details of construction. However, the system shall conform in all respects to high standards of quality and workmanship for performing the required duties in a manner acceptable to purchaser who will interpret the meaning of drawings and specifications and shall be entitled to reject any work or material, which in his Judgments are not in full accordance herewith.
1.4	The omission of specific reference to any fabrication / construction or other method, equipment or material necessary for construction of buildings shall not relieve the tenderer of the responsibility of providing such facilities to complete the work at quoted rates. Any mismatch/ defect found due to mistake in fabrication/ construction shall have to be rectified by the contractor free of cost. Inspection by BHEL/Customer does not relieve contractor of his responsibility of executing quality construction.
1.5	The work covered under this specification should be of sophisticated nature, requiring the best quality workmanship, supervision, engineering and construction management. The contractor should ensure proper planning and successful and timely completion of the work to meet the overall project schedule. The contractor must deploy adequate quantity of tools & plants, modern / latest construction aids etc. He must also deploy adequate trained, qualified and experienced supervisory staff and skilled personnel.
1.6	Contractor shall construct the buildings as per the sequence suggested by BHEL. Availability of materials, Drawings and fronts will decide this. BHEL Engineer's decision regarding correctness of the work and method of working shall be final and binding on the contractor. No claims for extra payment from the contractor will be entertained on the ground of deviation from the methods / sequence adopted in construction of similar sets elsewhere.

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1.7	Following shall be the minimum responsibility of contractor and have to be provided within finally accepted rates / prices:
1.7.1	Providing as required of all types of labour, supervisors, engineers, watch and ward, tools & tackles, calibrated IMTEs (Inspection, measuring and testing equipment) as specified and otherwise required for the work, consumables for construction, testing and commissioning including material handling
1.7.2	Providing as required of all material required for construction of buildings as specified in BOQ or mentioned in Technical specifications at site of work excluding the steel reinforcement and grey cement, which shall be, free issued to the contractor at BHEL store. Carriage of material from BHEL STORE to Site of work shall be in contractor's scope.
1.7.3	Achieving Proper out-turns / Turn-over as per BHEL plan and commitment of Contractor.
1.7.4	Completion of work as per BHEL Schedule and commitment of Contractor.
1.7.5	Good quality and accurate workmanship for proper performance of the equipment
1.7.6	Repair/Replacement and rectification during the construction.
1.7.7	Storage of all material either issued by BHEL or supplied by contractor himself during storage / construction until handing over.
1.7.8	Repair/ removal of defects in the work executed during the warranty period which shall be for a period of 12 months for all works except for waterproofing works for which warranty period shall be 5 years from the date of completion of total work and handing over to BHEL envisaged under the scope.
2.0	GENERAL SERVICES TO BE RENDERED BY THE CONTRACTOR
2.1	Services for construction works of residential buildings which includes all necessary works including construction, water supply, sanitary ,drainage, finishing, waterproofing , repair & maintenance , construction testing as well as installation, trial run & commissioning of various domestic electrical appliances under the contract.
2.2	Issuing materials from store/open yard from time to time for construction as per the construction program. The Contractor shall be the custodian of all the materials issued by BHEL and will provide safe storage till the buildings are officially taken over by the BHEL.
2.3	Carriage of issued material from BHEL store to their respective places of construction.
2.4	Supply, storage of material included in contractors scope of work and Quality testing of all such material supplied by Contractor at site of work as and when required to the satisfaction of BHEL.
2.5	Deployment of all skilled and unskilled manpower required for construction, Technical staff for supervision of construction, watch & ward and other services to the rendered under this

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	specification.
2.6	Deployment of all construction tools & tackle, construction machinery, transportation vehicles and all other implements in adequate number and size, appropriate for the construction work to be handled under scope of this specification except otherwise specified.
2.7	Supply of all consumables, eg welding electrodes, cleaning agents, diesel oil, lubricant etc. as well as materials required for temporary supports, scaffolding etc. as necessary for such construction work, unless specified otherwise.
2.8	Providing support services for the contractor's construction staff eg construction of site offices, temporary stores, residential accommodation and transport to work site for construction personnel, watch and ward for security and safety of the materials under the Contractor's custody etc. as required.
2.9	Removal of debris, rubbish and garbage generated at construction site and keeping the construction site neat and clean.
2.10	Maintaining proper documentation of all the site activities undertaken by the Contractor as per the Performa mutually agreed with BHEL, Submission of monthly progress reports and any such document as and when desired by BHEL, taking approval of all statutory authorities as applicable which fall under the jurisdiction of such statutes of laws.
2.11	Any other service, although not specifically called for but required for a contract of the size and nature indicated in the specification.
2.12	Repair/ removal of defects in the work executed during the warranty period.
2.13	Plantation of 100 trees after completion of construction and their maintenance during the warranty period of construction without any extra cost to BHEL. This is for contribution of contractor towards environment improvement.
3.0	GENERAL TECHNICAL REQUIREMENTS (SPECIFICATIONS, DRAWINGS AND CODES)
3.1	Construction shall be based on requirements/guidelines of Indian standard codes as applicable, Drawings issued to the contractors, Specifications of bill of quantities (schedule A of price bid) and CPWD works specifications as applicable. Technical conditions of contract shall be binding on the contractor. BHEL engineer and contractor both as and when required will take reference of such specifications.
3.2	The detailed drawings, specifications available with BHEL engineers will be made available to the contractor during execution of work at site. The contractor will also ensure availability of all drawings / documents at work place.
3.3	Necessary drawings to carry out the construction work will be furnished to the contractor by BHEL on loan, which shall be returned to BHEL Engineer at site after completion of work. Contractor shall ensure safe storage and quick retrieval of these documents.
3.4	The contractor shall maintain a record of all drawings and documents available with him in a register as per format given by BHEL Engineer. Contractor shall ensure use of pertinent drawings / data / documents and removal of obsolete ones from work place and returning to

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	BHEL.
3.5	The data furnished in various annexure enclosed with this tender specification are only approximate and for guidance. However, the change in the design and in the quantity may occur as is usual in any such large scale of work. The contractors quoted rates shall be inclusive of the above factor
3.6	Should any error or ambiguity be discovered in the specification or information the contractor shall forthwith bring the same to the notice of BHEL before commencement of work. BHEL's interpretation in such cases shall be final and binding on the contractor.
3.7	Deviation from design dimensions should not exceed permissible limit. The contractor shall not correct or alter any dimension / details, without specific approval of BHEL.
4.0	OBLIGATIONS OF CONTRACTOR WITH RESPECT TO THE RATES OFFERED
4.1	The rates shall be for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labor, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance during warranty period, supervision, labor colonies, establishment, services, revenue expenses, overheads, profits & all other incidentals etc., complete for the specifications mentioned in BOQ (Schedule 'A')
4.2	Rate quoted shall be excluding Service Tax and 'CESS' under 'BOCW' act 1996 but including all royalties, terminal taxes, Octroi duties, Central or Provincial Excise Tax, Sales Tax as applicable and any other taxes leviable under the State or Central Government rules on this work. The Bharat Heavy Electricals Ltd., will not entertain any claim whatever in this respect. The service tax as applicable for this contract shall be mentioned specifically by Tenderer in Price bid and Technical Bid.
4.3	The Service Tax/ and 'CESS' under 'BOCW' act 1996 will be reimbursed to contractor on production of valid document / proof for having paid such taxes/cess to the concerned authorities by them only. BHEL will not be responsible for any contravention or violation of service Tax rules by Tenderer/Contractor . Cost of free issue material consumed in the work will be given to Contractor on his request.
4.4	Contractor will be responsible for Submission of "CESS" under BOCW act 1996 to the concerned authority and it will be the liability of contractor to ensure correct and timely deposition of such "CESS". However if BHEL has to pay the amount of "CESS" to the authority concerned than It will be recovered from the Bills of contractor.
4.5	The contractor shall pay all (save the specific exclusions as enumerated in this contract) applicable taxes, fees, license charges, deposits, duties, tools, royalty, commissions or other charges which may be levied on the input goods & services consumed and output goods & services delivered in course of his operations in executing the contract. In case BHEL is forced or liable to pay any of such taxes, BHEL shall have the right to recover the same from the Contractors' bills or otherwise as deemed fit.
4.6	Necessary Deduction against TDS and work contract Tax shall be done from contractor's bill as per statutory acts and rules. Other recoveries towards water charges, electricity and empty

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	cement bags will also be done from contractor's bill.
4.7	Wherever the relevant tax laws permit more than one option or methodology for discharging the liability of tax/levy/duty, CONTRACTOR will have the right to adopt the appropriate one considering the amount of tax liability as well as procedural simplicity with regard to assessment of the liability. CONTRACTOR shall be responsible for the option or methodology chosen by him BHEL will not be responsible for any contravention of statutory Laws/Acts/rules by contractor against the liability of taxes/duties/levies. BHEL will also not bear any responsibility for delay in deposition of service tax or calculation of service tax by Contractor and will not be responsible for any penalty or interest applied by concerned authority for such contravention or delayed deposition or non-deposition or wrong deposition of tax by Contractor/Tenderer.
4.8	In case the Government imposes any new levy/tax on the output service/ goods/work after award of the work, the same shall be reimbursed by BHEL at actual.
4.9	No reimbursement/recovery because of increase/reduction in the rate of taxes, levies, duties etc. on input goods/services/work shall be made. Such impact shall be taken care by the bidder and he has to make his own assessment of the impact of future variation if any, in rates of taxes/duties/ levies etc. in his price bid
4.10	For any item of work not covered in Bill of Quantities, the rate will be arrived at based on the conditions given in BHEL General Conditions of Contract in force.
4.11	Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rate quoted shall be deemed to be inclusive of all such contingencies. Quantities shown in the attached schedule are only tentative and approximate and are liable for variation. The contractor will have to execute all or any item of work irrespective of their quantities up to any extent without entitling the Contractors to any compensation, provided the total value of the Contract does not vary by more than 20% (twenty percent).
4.12	The contractor shall not increase their quoted rates, once the tender has been opened and during execution of the contract in case, his tender is accepted. The rates shall remain firm thought the contract period or extended period of contract. Price variation clause shall not be applicable to this tender and contract.
4.13	The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
5.0	OBLIGATIONS OF CONTRACTOR WITH RESPECT TO T&P, IMTEs, MATERIAL AND ITS STORAGE
5.1	T&Ps and IMTEs to be provided by Contractor
5.1.1	All T&Ps and IMTEs are to be provided by the Contractor. Contractor has to make his own arrangement at his cost for completing the formalities (including arrangement of Road permits, if any) if required with Sales Tax/VAT authorities, for bringing their materials, plants and equipment at site for the execution of work under this contract.

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5.2	Obligations in respect of T&Ps and IMTEs provided by BHEL
5.2.1	Normally no T&P / IMTEs shall be provided by BHEL to contractor. However in the interest of work if BHEL provides so than an appropriate recovery shall be done from contractors bills towards hire charges and shall include market rate plus overhead as decided by BHEL.
5.2.2	Any loss / damage to any part of BHEL T&Ps and IMTEs shall be to the contractor's account and any expenditure on these accounts by BHEL will be recovered from the contractor's bill in case the contractor fails to make good the loss.
5.2.3	The contractor shall return BHEL T&Ps and IMTEs issued to him in good working condition as and when desired by BHEL (on completion or reduction of workload). If contractor delays return of T&P and MME, hire charges as applicable shall be levied by BHEL from time, it was requisitioned till the time of actual return. T&Ps and IMTEs returned in damaged / unserviceable condition shall be got repaired by BHEL at its own discretion and entire cost of repair with BHEL overheads shall be recovered from the contractor.
5.3	Obligations in respect of material and its storage.
5.3.1	All materials required for execution of the works under this contract shall be supplied by contractors except those mentioned in Schedule 'B' of Price bid which shall be free issued to contractors at BHEL stores. These free-issued materials will be transported to construction site and stored in the storage spaces in a manner so that they are easily retrievable till the contractor use them. While drawing/lifting material from BHEL stores, the contractor shall ensure safe carriage of material. No claim is admissible on this account.
5.3.2	While BHEL will endeavor to store / stack / identify the quantity of free issued materials properly in their open / close / semi closed / tarpaulins covered storage yard / shed, it shall be contractor's responsibility to assist BHEL in identifying the quantity of materials well in time for construction. They should take the delivery of the same, following the procedure indicated by BHEL, and transport the material safely to construction site in time, according to program.
5.3.3	The contractor shall take delivery of free issued material after getting the approval of BHEL Engineer on standard indent forms.
5.3.4	The contractor shall identify and deploy necessary Engineers/supervisors /workmen for the above work in sufficient number as may be needed by BHEL, for areas covering their scope.
5.3.5	All the perishable material viz cements etc shall be handled and stored very carefully to prevent any damage or loss. BHEL will bear no responsibility for damage of material in construction stores at site of contractor after issue from BHEL store. Contractor shall construct a separate shade for storage of cement issued by BHEL, which should be of capacity of storing 5000 cement bags.
5.3.6	Contractor shall be responsible for examining all the materials issued to him and notify the Engineer immediately of any damage, shortage, discrepancy etc. before they are moved out of the stores / storage area. The contractor shall be solely responsible for any shortages or damages in transit, handling, and storage of free issued construction material once received by him. As the construction work will be spread in different areas / locations of the project site ,

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	contractor has to arrange sufficient number of watch / ward personal to avoid any pilferage of material.
5.3.7	The contractor shall maintain an accurate and exhaustive record-detailing out the list of all material received by him for the purpose of construction and keep such record open for the inspection of the engineer at any time.
5.3.8	All the material in the custody of contractor and stored in the open or dusty locations must be covered with suitable weather proof / fire retardant covering material wherever applicable and shall be blocked up on raised level above ground. All covering materials including blocks and sleeper shall be arranged by the contractor at his cost.
5.3.9	If the material belonging to the contractor are stored in area other than those earmarked for his operation the engineer will have the right to get it moved to the area earmarked for the contractor at the contractors risk and cost.
5.3.10	The contractor shall ensure that all surplus / damaged / scrap / unused material, packing wood /special transporting frames etc from the BHEL supplied materials are returned to BHEL at a place in project area identified by the Engineer. The contractor will maintain an account for all items received and returned to BHEL. Any shortage in returning such items shall be chargeable to the contractor.
5.3.11	The contractor shall hand over all free issued materials remaining extra over the normal requirement with proper identification tags to the stores as directed by the concerned BHEL engineer.
5.3.12	Recovery for non-returned material/excess consumption of material /excess generation of scrap. Where in accordance with the contract stipulations certain Stores & Materials (for incorporation in the work) are to be issued to the Contractor by the BHEL as detailed under Schedule "B" of price bid such items will be so issued only to the extent required for the actual completion of the work as stipulated in the contract. The decision of the Engineer-in-charge regarding the quantities to be issued as above shall be final and binding on the contractor. For any excess quantities consumed on the work or excess scrap generated up to 5% over the theoretical consumption for steel reinforcement and 2 % for Grey Cement will be charged at issue rates (total purchase cost to BHEL) and excess consumption beyond this limit, their cost will be recovered from the Contractor at punitive rates which will be 100% (Hundred Percent) more than the issue rates (total purchase cost) of the BHEL.
5.3.13	A recovery of Rs. 1 per empty cement bags shall be done from contractor's bill. Empty cement bags are not required to be returned to BHEL.
6.0	OTHER IMPORTANT RESPONSIBILITIES OF CONTRACTOR
6.1	The Contractor shall make his own arrangements for accommodation with necessary facilities such as drinking water, sanitation and lighting etc. for his workmen and the staff. The contractor on his own shall arrange the electricity for labor accommodation. Also, the

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	contractor has to make his own arrangement for transportation of his workmen and other employees. BHEL shall not provide any facility in this regard.
6.2	The Contractor should establish his own site office, fabrication yard, handling facility, storage facility, security arrangements, etc., for which vacant land will be allotted on specific request for which the rent will not be collected.
6.3	The Contractor should have their own well-established laboratory at site of work for conducting various tests as per scope of work mentioned in the Tender document t.
6.4	The Contractor shall arrange adequate floodlights, hand lamps and area lighting. Provision of distribution lines for lighting from the single point to the required place with proper distribution boards, observing the safety rules laid down by the electrical authorities of the state shall be done by the Contractor including all the materials like cables, fuses, switch boards etc.
6.5	The Contractor shall provide suitable arrangement for urinal and drinking water facility at site with necessary plumbing & disposal arrangements including construction of septic tank. These installations shall be maintained in hygienic condition at all times.
6.6	On completion of work, all the temporary buildings, structures, etc shall be dismantled and leveled and debris shall be removed as per instruction of BHEL by the Contractor at his cost. In the event of his failure to do so, the same will be arranged to be removed and expenditure thereof will be recovered from The Contractor. The decision of BHEL engineer in this regard shall be final. However, the scope of dismantling and leveling the area is limited only to the Contractor's site office, yard and other spaces occupied by the contractor.
6.7	The Contractor shall appoint One Project Manager having minimum 10 years' Experience in the relevant field. One Graduate Engineer with minimum one-year experience in the relevant field or one diploma Engineer with minimum three years' Experience in the relevant field of Civil Discipline. In case Contractor is unable to appoint above technical Staff then Rate of recovery may be done at following rates:- <ul style="list-style-type: none"> • One Project Manager having minimum 10 years' Experience in the relevant field.: Rs. 25,000/- PM • One Graduate Engineer with minimum one year experience in the relevant field or one diploma Engineer with minimum three years' Experience in the relevant field of Civil Discipline.: 20,000/-PM
6.8	Electricity for construction: The contractor shall submit to the Engineer within 30 days from the signing of Contract Agreement his electrical power requirement. The contractor shall be provided with supply of electricity at one point in the project site on recovery basis for the purpose of contract execution except. The rate of recovery will be based on the electricity charges levied by Punjab state power corporation Ltd and number of units of power consumed by Contractor as measured by electricity meter installed for contractor. The contractor shall make his own further distribution arrangement. All temporary wiring must comply with local

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	regulations and will be subject to Engineer inspection and approval before connection to supply. The arrangement of the Luminary shall be the responsibility of the contractor. The proper illumination at work site is the responsibility of Contractor.
6.9	Water for construction: Supply of water for the construction purposes will be made available by BHEL at an agreed single point at the site. Any further distribution will be responsibility of the contractor. The contractor will made their own arrangement for storage of water of adequate capacity for curing of concrete /Masonry structures, construction & general curing. The contractor shall comply with all measures as suggested by Engineer-in-charge to avoid wastage of water. A suitable recovery of 0.861 % (zero point eight six one percent) shall be done from contractors bill on gross value of work done by them excluding the cost of free issue material.
6.10	The warranty period for the work executed shall be for a period of 12 months from the date of completion of total work and handing over to BHEL envisaged under the scope
6.11	The warranty period for water- Proofing work done elsewhere in project site shall be 5 years from the date of completion of work and handing over to BHEL.
6.12	In case of any deficiencies in the Construction/ workmanship, which is detected before the expiry of the warranty period, the contractor on notification by BHEL shall rectify or remedy the defects at his own cost. The contractor shall do the repairs of the defective work within a reasonable time to be decided mutually with the BHEL. If any defects be not remedied within a reasonable time, BHEL may proceed to do the work after giving 15 days' notice to the contractor at the reasonable price and debit the cost to the contractor, but without prejudice to any other rights which BHEL may have against the contractor in respect of such defects. The new warranty after repairs shall be for 6 months from the date of complete repair or original warranty whichever is later.
6.13	The acceptance of the work by the engineer shall in no way relieve the contractor of his obligation under these clauses.
6.14	For Faithful performance during warranty period security money as mentioned under Security Deposit & return of Security Deposit Clauses under General Conditions of Contract (GCC) shall be retain up to the expiry of Warranty period
6.15	For Water Proofing Work, the security Deposit shall be worked out @ 15% of the water proofing work value and shall be recovered from the bill in addition to Security deposit on Gross value of work as per clause 16 of GCC which shall be released only upon expiry of Warrantee period of 5 Years.
7.0	TERMS OF PAYMENTS
7.1	The contractor shall submit every month his monthly RA bills with all the details required by BHEL on specified date as mutually agreed covering progress of work in all respects and areas for the previous calendar month.
7.2	Mode of payment and measurement of work completed shall be as per relevant clauses of

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	General Conditions of Contract and Technical conditions of contract and CPWD technical specifications of work.
7.3	Any interim Payment made relating to work done or materials delivered vide running account bill may be modified or corrected by any subsequent interim payment or by the final payment. No certificate of the Engineer-in-charge supporting an interim payment shall of itself be conclusive evidence that any work or materials to which it relates is/ are in accordance with the contract.
7.4	Release of payment in each running bill will be restricted to the value of work completed. No advance payment shall be done.
7.5	Security deposit up to the 10% of value of RA bill will be deducted by BHEL as per the relevant clauses of General conditions of contract.
7.6	Deductions towards TDS, Work Contract Tax and recovery any other statutory levies as applicable shall be done from the contractor's bills against the work completed. Other deductions/recoveries towards water charges, electricity charges, empty cement bags, non-returned material, excess generation of scrap, and recoveries towards non deployment of technical staff as per conditions of contract, LD etc if applicable will also be done from contractor's bills.
7.7	The Service Tax/ and 'CESS' under 'BOCW' act 1996 will be reimbursed to contractor on production of valid document / proof for having paid such taxes/cess by them to concerned authorities. If BHEL has to pay the 'CESS' under BOCW act 1996 than it will be recovered from contractor's bill.
7.8	The payment for running bills will normally be released within a reasonable time (30-45) days of Submission of running bill complete in all respects with all documents. It is the responsibility of the contractor to make his own arrangements for making timely payments towards labor wages, statutory payments, outstanding dues etc. and other dues in the meanwhile.
7.9	BHEL shall release payment through Electronic Fund Transfer (EFT)/RTGS. In order to implement this system, Contractor has to furnish details pertaining to his Bank Accounts where proceeds will be transferred through BHEL's banker, as per prescribed formats:
8.0	PERFORMANCE MONITORING
8.1	The construction project shall be monitored to control the time overrun, quality of workmanship and material. BHEL administrative and technical staff may ask the contractor to submit the detail program for completions of construction activities, technical specifications and quality tests/certificates of the material brought by contractor to the site of work. Contractor will have to submit the necessary documents in support of information required by BHEL.
8.2	Upon award, the contractor shall submit to BHEL within 15 days of issue of LOI, an work completion Schedule showing the sequence of activities with duration covering complete

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	<p>activities under the scope. Such schedule should be prepared considering parallel working in different area of work. Working in series shall not be permitted in any cases. The approved schedule shall be strictly adhered to for completing the project in time. The contractor may also be required to work in minimum two shifts for meeting the project schedule.</p>
8.3	<p>If any material brought by the contractor to site of work for use is rejected by BHEL at any stage of work due to its poor standards/characteristics or due to its deviated specifications (different from those mentioned in BOQ), than contractor will be responsible for re delivery of the material at site of work and time/Cost overrun will be attributable to contractor only.</p>
8.4	<p>Contractor, during the construction work will submit to BHEL Goindwal following reports Daily progress report: construction progress, availability of material, Labour & Technical Staff at the site of Contractor. Monthly Progress report: Construction progress (physical & financial value) Weekly requisition summary: Requisition summary of materials and drawings required by Contractor from BHEL</p>
8.5	<p>The Contractor shall either himself supervise the execution of the Works or shall appoint a competent agency approved by the Engineer-in-Charge to act in his stead. If in the opinion of the Engineer-in-Charge to act in his stead, the Contractor has himself not sufficient knowledge and experience to be capable of receiving instructions or cannot give his full attention to the works, the Contractor shall, at his own expense, employ as his accredited agent an engineer approved by the Engineer-in- Charge. Orders given to the Contractor's agent shall be considered to have the same force as if these had been given to the Contractor himself. If the Contractor fails to appoint a suitable agent as directed by the Engineer-in-charge, the Engineer-in-Charge shall have full powers to suspend the execution of the Works until such date as a suitable agent is appointed and the contractor shall be held responsible for the delay so caused to the Works.</p>
8.6	<p>BHEL shall be entitled to terminate the contract/pending Work Orders at any stage and to get the work done elsewhere at the risk and cost of the Contractor, either the whole of the work or any part thereof which the Contractor has failed to complete or deliver within the time stipulated as aforesaid. Contractor shall be liable for the losses, which BHEL may sustain by way of such risk purchase in addition to aforesaid penalty for delayed delivery.</p>
8.7	<p>If at any time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non-performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or</p>

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	<p>delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by BHEL subject to prompt notification by the tenderer to BHEL of the particulars of the events and supply to the BHEL if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries</p>
9.0	OCCUPATIONAL HEALTH, SAFETY & ENVIRONMENT MANAGEMENT/
9.1	<p>BHEL, IVP is certified for ISO 9001 and have HSE certification (ISO 14001 & OHSAS 18001) and therefore Contractor shall organize/ plan/ perform all their activities to meet with the applicable requirements of these standards.</p> <p>HSE (Health, safety & Environment): Contractor will comply with HSE (Health, safety & Environment) requirements of BHEL. HSE requirements in brief, are given below :-</p>
9.1.1	<p>Contractor will nominate one of their qualified and experienced employees as Safety Officer, who will be responsible for all HSE related issues of contractors work area. Safety Officer will have authority to stop any activity, in case he observes that the activity is not being carried out in safe manner. He will conduct surprise inspection as well as periodic inspection/drill (at least once in a month) and submit such reports to BHEL. He will conduct periodic meetings with supervisors of different working groups and explain HSE issues and use of PPEs to them. Reports of such meetings will be submitted to BHEL. Contractor will develop suitable work procedures based upon HSE guidelines and OCPs and implement it. Such work procedures will consist of Area of work, T&P Details, Work Procedure, PPE requirements etc. Contractor should highlight the requirement of safety to staff and labour through daily tool box meeting before start of the days job</p>
9.1.2	<p>The contractor shall ensure that proper job specific health check-up is done by Medical professional for their employees during initial mobilization and thereafter if there is any change of job.</p>
9.1.3	<p>Following personnel protective equipments (PPEs), in adequate numbers, will be made available at site & their regular use by all concerned will be ensured :-</p>
	- HELMET
	- SAFETY GOGGLES & WELDING FACE SHIELDS as and when required
	- SAFETY BELTS AND PROTECTIVE NET FOR WORKING AT HEIGHT
	- SAFETY SHOES
	- SAFETY GLOVES as and when required.
	- ANY OTHER SAFETY EQUIPMENT REQUIRED FOR SAFE COMPLETION OF THE WORK
9.1.4	<p>Providing appropriate First Aid facilities for prompt treatment of injuries and illness at work place. Arranging training to contractor workmen/ employees for giving first aid.</p>
9.1.5	<p>Arranging ambulance in case of any emergency situation .</p>

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9.1.6	Identification of nearest hospital and health check-up of workmen/employees
9.1.7	Providing filtered drinking water at work place in cool container.
9.1.8	Providing Canteen, Rest Room, Washing facilities to the contracted employees as per provisions of Contract Labour Regulation Act 1970 (Chapter V).
9.1.9	Providing appropriate firefighting equipment at designated work place and Nominate a fire officer/warden adequately trained for his job.
9.1.10	Identification of nearest fire station and display contact telephone nos. / person's name around work places for cases of emergencies .
9.1.11	Providing adequate no. of 24 V sources and ensure that no hand lamps are operating at voltage level above 24 Volts.
9.1.12	Fulfilling safety requirements at all power tapping points.
9.1.13	Red & White caution tape of proper width(1.5 to 2 inch) to be used for cordoning unsafe area such as open trench, excavation area etc.
9.1.14	Providing contractors company logo on cloths /uniform/ or proper identity cards with photographs, for correct identification of people working at project site.
9.1.15	No welders will be deployed without passing appropriate tests and holding valid welding certificates. Approved welding procedure should be displayed at work place.
9.1.16	Displaying safe handling procedures for all chemicals such as lube oil, acid, alkali, sealing compounds etc , at work place .
9.1.17	All scaffolding/ platforms should be made from materials of appropriate quality/grade so that these are safe for use. It should be certified/declared safe for use by an experienced contractor person, before any scaffolding/platform is used.
9.1.18	All T&Ps/ IMTEs should be of reputed brand/appropriate quality & must have valid test/calibration certificates bearing endorsement from competent authority of BHEL.
9.1.19	Ensure that the regulatory requirement of excessive weight limit (to carry/lift/ move weights beyond prescribed limits) for male and female workers are complied with.
9.1.20	Safety slogan, Safety/ Caution boards, wherever required to be displayed in consultation with BHEL.
9.1.21	Take suitable measures for waste management and environment related laws/legislation as a part of normal construction activities. Compliance with the legal requirements on storage/disposal of paint drums (including the empty ones), Lubricant containers, Chemical Containers, and transportation and storage of hazardous chemicals will be strictly maintained. Ensure proper cleanliness of work place, housekeeping and waste management (including proper waste disposal) on daily basis.
9.1.22	It is imperative on the part of the contractor to join and effectively contribute in joint measures such as tree plantation, environment protection, contributing towards social uplift ment, keeping good relation with local populace etc.
9.1.23	The contractor shall carry out periodic air and water quality check and Illumination

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	level checking in his area of work place and take suitable control measure.
9.1.24	The Contractor is required to provide proper safety net systems where ever the hazard of fall from height is present as per instruction of BHEL Engineer. The safety nets shall be fire resistant, duly tested and shall be of ISI Mark and the nets shall be located as per site requirements to arrest or to reduce the consequences of a possible fall of persons working at different heights.
9.2	SAFETY AND CLEANLINESS :
9.2.1	The contractor shall take all necessary safety precautions and arrange for appropriate appliances as per discretion of BHEL or its authorized officials (HOD Civil) to prevent loss of human lives, injuries, to personnel engaged and damage to property. Before commencing the work, the contractor shall submit a "Safety Plan" to the above authorized BHEL official and obtain approval on the same. The safety plan shall indicate in detail the measures that would be taken by the contractor to ensure safety of men, equipment, materials and environment during execution of the work. This will also include an organization structure, role and responsibilities of the concerned key personnel, the safety practices that will be followed, PPEs deployed, plan for handling critical activities and emergencies.
9.3	If the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instructions issued by the authorised BHEL official, BHEL shall have the right to take corrective steps at the risk and cost of the contractor.
9.4	During the course of construction, alternation or repairs, scrap with protruding nail, sharp edge etc and all other debris shall be kept clean from working areas, passage, ways and stairs in and around site.
9.5	Combustible scrap and debris shall be removed at regular intervals during the course of execution. Safe means shall be provided to facilitate such removal. The combustible scrap should be stored in safe place away from the plant materials to avoid fire accidents. The area shall be chosen in consultation with the Engineer and to be cordoned off.
9.6	Rigging equipment for materials handling shall be inspected prior to use in each shift and as necessary during its use to ensure that it is safe. Defective rigging equipment will be removed from service.
9.7	Rigging equipment shall not be loaded in excess of its recommended safe working load. Rigging equipment, when not in use, shall be removed from the original work area so as not to present a hazard to employees.
9.8	Contractor shall notify the engineer, of his intention to bring on to site any equipment or any container, with liquid or gaseous fuel or other substance which may create a hazard. The Engineer shall have the right to prescribe the condition under which such equipment or container may be handled and used during the performance of the works and the contractor shall strictly adhere to such instructions. The Engineer shall have the right to inspect any construction tool and to forbid its use, if in his opinion it is unsafe. No claim due to such

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	prohibition will be entertained.
9.9	Where it is necessary to provide and/or store petroleum products or petroleum mixture & explosives, the contractor shall be responsible for carrying out such provision / storage in accordance with the rules & regulations laid down in the relevant petroleum act, explosive act and petroleum and carbide of calcium manual, published by the chief inspector of explosives of India. All such storage shall have prior approval if necessary from the chief inspector of explosives or any other statutory authority. The contractor shall be responsible for obtaining the same.
9.10	Cylinders shall be moved by tilting and rolling them on their bottom edges. They shall not be intentionally dragged, struck or permitted to strike each other violently.
9.11	When cylinders are transported by powered vehicle they shall be secured in vertical position.
9.12	All workmen of the contractor working on construction area shall wear safety shoes, hand gloves, safety helmets and safety belt as applicable. The contractor shall provide to its workforce and ensure the use of personnel protective equipment as found necessary and as directed by BHEL.
9.13	The contractor shall insure his workmen against all accidents and the policy shall be presented to BHEL Engineer on demand. Otherwise, BHEL will arrange the same and the expenditure towards this will be debited to the contractor. In case of a fatal or disabling injury accident to any person at construction site due to lapses by the contractor, the victim and/or his/her dependents shall be compensated by the contractor as per statutory requirements. However, if considered necessary BHEL shall have the right to impose appropriate financial penalty on contractor and recover the same from payments due to the contractor for suitably compensating the victim and/or his/her dependence before imposing any such penalty. Appropriate enquiry shall be held by BHEL giving opportunity to the contractor for presenting his case. Above safety conditions are not exhaustive but gives an idea for the contractor and contractor shall adhere to all safety precaution given by the Engineer at site.
9.14	The contractor shall arrange at his cost adequate lighting facilities e.g. flood lighting, hand lamps, area lighting etc. at various levels for safe and proper working operations during night hours at the work spot as well as at the pre- assembly area.
9.15	The contractor shall be responsible for provision of all the safety notices and safety equipment as enjoined on him by the application of relevant statutory regulation / provisions and/or as called upon by BHEL from time to time. He shall be held responsible for any violation of statutory regulations (local, state or central) and BHEL instruction that may endanger safety of men, equipment and material.
9.16	The contractor shall provide temporary fencing wherever required as a safety measure against accident and damage to properties. Suitable caution notices shall be displayed where access to any part is found to be unsafe and hazardous.
9.17	Contractor shall ensure safety of all the workmen, material and equipment either belonging to him or to others working at site. He shall observe safety rules and codes applied by BHEL

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	without exception.
9.18	It will be the responsibility of the contractor to ensure safe lifting of the equipment/ material , taking due precaution to avoid any accident and damage to other equipment / material and personnel. All requisite tests and inspection of handling material/ equipment, tools & tackle shall be periodically done by the contractor. Defective material/ equipment shall be removed from service. Any equipment shall not be loaded in excess of its recommended safe working load
9.19	The contractor shall provide necessary first aid facilities for all his employees, representatives and workmen at site and BHEL shall have no obligation in this regard. The first aid boxes should be placed at various elevations so as to make them available within the reach and at the quickest possible time. The contractor should conduct periodical first –aid classes to keep his supervisor and Engineers properly trained for attending to any emergency.
9.20	All the contractor’s supervisory personnel and sufficient number of workers shall be trained for fire protection systems. Enough number of such trained personnel must be available during the tenure of contract. Contractor should nominate his supervisor to coordinate and implement the safety measures.
9.21	Contractor shall provide enough fire protecting equipment of the types and numbers at his office, stores, temporary structure in labour colony etc. Such fire protection equipment shall be easy and kept open at all times. The fire extinguishers shall be properly refilled and kept ready which should be certified at periodic intervals. The date of changing should be marked on the Cylinders. All other fire safety measures as laid down in the “codes for fire safety at construction site” issued by safety coordinator of BHEL shall be followed. Non- compliance of the above requirement under fire protection shall in no way relieve the contractor of any of his responsibility and liabilities to fire accident occurring either to his materials or equipment or those of others.
9.22	The contractor shall at his cost, remove from vicinity of work at least once each day all combustible waste, scrap, panting materials, rubbish, unused or other materials and deposit them in places specified by BHEL to keep the work site clear and tidy. Use of undercoated canvas paper, corrugated paper, fabricated carton, plastic or other flammable materials shall be restricted to the minimum and promptly removed.
9.23	The contractor shall not use any hand lamp energized by Electric power with supply voltage of more than 24 volts in confined spaces.
9.24	All portable electric tools used by the contractor shall have safe plugging system to source of power and be appropriately earthed. Only electricians licensed by appropriate statutory authority shall be employed by the contractor to carry out all types of electrical works.
9.25	In case of any delay in completion of a job due to mishaps attributable to lapses by the contractor, BHEL shall have the right to recover cost of such delay from the payments due to the contractor, after notifying the contractor suitably.

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9.26	If the contractor fails to improve the standards of safety in its operation to the satisfaction of BHEL after being given reasonable opportunity to do so and/or if the contractor fails to take appropriate safety precautions or to provide necessary safety devices and equipment or to carry out instruction regarding safety issued by BHEL, BHEL shall have the right to take corrective steps at the risk and cost of the contractor after giving a notice of not less than 7 days indicating the steps that would be taken by BHEL.
9.27	If the contractor succeeds in carrying out its job in time with out any fatal or disabling injury accident and without any damage to property BHEL may, at its sole discretion, favorably consider to reward the contractor suitably for the performance.
9.28	The contractor shall use only properly insulated and armored cables which conform to the requirement of Indian Electricity Act and Rules for all wiring, electrical applications at site. BHEL reserves the right to replace any unsafe electrical installations, wiring, cabling etc. at the cost of the contractor. All electrical appliances used in the work shall be in good working condition and shall be properly earthed. No maintenance work shall be carried out on live equipment. The contractor shall maintain adequate number of qualified electricians to maintain his temporary electrical installations.
9.29	The contractor shall arrange adequate number of persons specifically for clearing any debris and for housekeeping of the construction area including restacking of components in the construction areas.
9.30	In case of any damage to property due to lapses by the contractor, BHEL shall have the right to recover the cost of such damages from the contractor after holding an appropriate enquiry.
9.31	The contractor shall submit report of all accidents, fires and property damage etc to the Engineer immediately after such occurrence, but in any case not later then 24 hours of the occurrence. Such reports shall be furnished in the manner prescribed by BHEL. In addition periodic reports on safety shall also be submitted by the contractor to BHEL from time to time as prescribed by the Engineer.
9.32	Before commencing the work, the contractor shall appoint/nominate a responsible person to supervise implementation of all safety measures and liaison with his counterpart of BHEL.
9.33	Suitable scaffolds shall be provided for workman for all works that cannot safely be done from the ground, or from solid construction except in the case of short duration of work which can be done safely from ladders. When a ladder is used, it shall be of rigid construction made of steel. The steps shall have a minimum width of 45 cm and a maximum rise of 30 cm. Suitable handholds of good quality wood or steel shall be provided and the ladder shall be given an inclination not steeper then ¼ horizontal and 1 vertical.
9.34	When a ladder is used an extra mazdoor shall be engaged for holding the ladder and if the ladder is used for carrying materials as well, suitable footholds and hand- holds shall be provided on the ladder and the ladder shall be given an inclination not steeper than ¼ to 1 (¼ horizontal and 1 vertical)

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9.35	Scaffolding or staging more than 3.6 m above the ground floor, swung or suspended from an overhead support or erected with stationery support shall have a guard rail properly bolted, braced or otherwise secured, at least 90 cm above the floor or platform of such scaffolding or staging and extending along the entire length of the out side and ends thereof with only such openings as may be necessary for the delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from savor, from swaying, from the building or structure.
9.36	Working platforms, gangways and stairways shall be so constructed that they do not sag unduly or unequally and if the height of the platform gangways provided is more than 3.2 m above ground level or floor level, they shall be closely boarded and shall have adequate width which shall not be less than 750 mm and be suitably fenced as described above.
9.37	Every opening in the floor or a building or in a working platform shall be provided with suitable means to prevent the fall of persons or materials by providing suitable fencing or railing whose minimum height shall be 90 cm.
9.38	Wherever there are open excavation in ground, they shall be fenced off by suitable railing and danger signals installed at night so as to prevent persons slipping into the excavations.
9.39	Safe means of access shall be provided to all working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 m in the length while the width between side rails in rung ladder shall in no case be less than app. 29.2 cm for ladder upto and including 3 m in length. For longer ladders this width shall be increased at least ¼” for each additional foot of length.
9.40	A sketch of the ladders and scaffolds proposed to be used shall be prepared and approval of the Engineer obtained prior to Construction.
9.41	All personnel of the Contactor working within the construction site and engaged in roof shuttering, roof concreting work or other similar work shall be provided with safety helmets. All welders shall wear welding goggles while doing welding work and electrical workers shall be provided with safety gloves. Persons employed on metal cutting and grinding shall wear safety glasses.
9.42	Adequate precautions shall be taken to prevent danger for electrical equipment. No materials on any of the sites of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public.
9.43	All trenches, four feet or more in depth, shall at all times be supplied with at least one ladder for each 30 m in length or fraction thereof. The ladder shall be extended from bottom of the trench to at least 90 cm above the surface of the ground. Sides of the trenches which are 1.50 m or more in depth shall be stepped back to give suitable slope or securely held by timer bracing, so as to avoid the danger of sides collapsing. The excavated materials shall not be placed within 1.5 m of the edges of the trench or half of the depth of the trench whichever is more. Cutting shall be done from top to bottom. Under no circumstances undermining or undercutting shall be done.

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9.44	The Contactor shall take all measures at the sites of the work to protect all persons from accidents and shall be bound to bear the expenses of defense of every suit, action or other proceeding at law that may be brought by any persons for injury sustained or death owing to neglect of the above precautions and to pay any such persons such compensation or which may with the consent of the Contractor be paid to compromise any claim by any such person should such claim proceeding be filed against BHEL, the Contractor hereby agrees to indemnify BHEL against the same.
9.45	Before any demolition work is commenced and also during the process of the work the following shall be ensured:
9.46	All roads and open areas adjacent to the work site shall either be closed or suitably protected.
9.47	No electric cable or apparatus which is liable to be a source of danger nor a cable or an apparatus used by the operator shall remain electrically charged.
9.48	All practical steps shall be taken to prevent danger to persons employed from the risks of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render them unsafe.
9.49	All necessary personnel safety equipment as considered adequate by the Engineer should be kept available for the use of the persons employed in the Site and maintained in a condition suitable for immediate use and the Contactor should take adequate steps to ensure proper use of equipment by those concerned.
9.49.1	Workers employed on mixing asphalted materials, cement and lime mortars shall be provided with protective foot wear and protective goggles.
9.49.2	Those engaged in white washing and mixing or stacking of cement bags or any materials which is injurious to the eyes shall be provided with protective goggles.
9.49.3	Those engaged in welding works shall be provided with welder's protective eyesight lids.
9.49.4	Stone breakers shall be provided with protective goggles and protective clothing and seated sufficient to safe intervals.
9.49.5	Where workers are employed in sewers and manholes, which are in use, the Contractor shall ensure that the manhole covers are opened and ventilated at least for an hour before the workers are allowed to get into manhole, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.
9.49.6	The Contractor shall not employ men below the age of 18 years and women on the work of painting with products containing lead in any form. Wherever men above the age of 18 are employed on the work of lead painting, the following precautions should be taken.
9.49.7	No paint containing lead or lead products shall be used except in the form of paste or ready made paint.
9.49.8	Suitably face masks should be supplied for use by the workers where paints are applied in the form of spray or a surface having lead paint dry rubbed and scrapped.
9.49.9	Overalls shall be supplied by the Contractor to the workmen and adequate facilities shall be

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	provided to enable the working painters to wash during the cessation of work.
9.50	When the work is being done near any place where there is risk of drowning all necessary equipment should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatment of all injuries likely to be sustained during the course of the work.
9.51	Motors, gearing, transmission, electric wiring and other dangerous parts of hoisting appliances should be provided with efficient safe guards. Hoisting appliance should be provided with such means as will reduce to the minimum the risk of any part of a suspended load becoming accidentally displaced. When workers employed on electrical installations which are already energized, insulating mats, wearing apparel, such as gloves, sleeves and boots as may be necessary should be provided. The worker should not wear any rings, watches and carry keys or other materials which are good conductor of electricity.
9.52	All scaffolds, ladders and other safety devices mentioned or described herein shall be maintained in safe condition and no scaffold, ladder or equipment shall be altered or removed while it is in use. Adequate washing facilities should be provided at or near the places of work.
9.53	Incase of departmental machine, safe working load shall be notified by the Engineer-in-Charge. As regards contractor's machine the Contractor shall notify safe working load of each machine to the Engineer-in-Charge whenever he brings it to site of work and get it verified by the Engineer-in-Charge.
9.54	The Contractor shall notify BHEL of his intention to bring to site any equipment or material which may create hazard. BHEL shall have the right to prescribe the conditions under which such equipment or materials may be handled and the contractor shall adhere to such instructions. BHEL may prohibit the use of any construction machinery, which according to him is unsafe. No claim for compensation due to such prohibition will be entertained by BHEL.
9.55	All safety precautions shall be taken for welding and cutting operations as per IS-818. All safety precautions shall be taken for foundation and other excavation marks as per IS-3764.
9.56	These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent, place at work spot. The persons responsible for compliance of the safety code shall be named therein by the Contractor.
9.57	To ensure effective enforcement of the rules and regulations relating to safety Precautions the arrangement made by the contractor shall be open to inspection by the engineer or the Engineer's Representative .
9.58	Keeping the work area clean/ free from debris, removed scaffoldings, scraps, insulation/sheeting wastage /cut pieces, temporary structures, packing woods etc. will be in the scope of the contractor. Such cleanings has to be done by contractor within quoted rate, on daily basis by an identified group. If such activity is not carried out by contractor / BHEL is

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	not satisfied, then BHEL may get it done by other agency and actual cost alongwith BHEL overheads will be deducted from contractor's bill. Such decisions of BHEL shall be binding on the contractor.
9.59	Notwithstanding the above clauses there is nothing to exit the Contractor from the operations of any other Act or Rule in force in area of work in this respect. Provided always that all safety measures apart from those specifically provided in this agreement which are brought to the notice of the Contractor from time to time by the Engineer shall be complied by the Contractor. Provided further that all consequences, damages, or losses arising by reason of any safety code shall be met with by the Contractor.
10	RESPONSIBILITIES OF CONTRACTOR IN RESPECT OF LABOUR, SUPERVISORY STAFF, ETC.
10.1	Relevant clauses of General Conditions of Contract (GCC) shall be applicable too.
10.2	The Contractor shall not employ in connection with the work any person who has not completed 18 years of age.
10.3	The Contractor shall in respect of labour employed by him either directly or through subcontractors, comply with or cause to be complied with the following statutory provisions and rules and in regard to all matters provided therein. a) The Contract Labour (Regulation & Abolition) Act 1970 and the related Punjab State Rules. b) The Minimum Wages Act 1948 and the related Punjab State Rules. c) The Payment of Wages Act 1936 and the related Punjab State Rules. d) The Factories Act 1948 and the related Punjab State Rules. e) The Employee's Provident Fund & Miscellaneous Provisions Act 1952. f) The Employees State Insurance Act 1948. g) The Workmen Compensation Act 1923. h) The Industrial Disputes Act 1947. i) The Payment of Bonus Act 1965. j) BOCW Act. 1996 and rules of 1998, etc. k) any other law or modifications to the above or to the Rules made there under from time to time.
10.4	Every Contractor shall give following information to BHEL HR section: a) The Name of the Contractor b) Nature of Contract Work c) Period of work d) Number of maximum labour employed by him on any one day e) License No. & Date (Applicable in case of contractor employing 20 or more workers) f) PF, ESI, etc., and enrolment No.
10.5	Contractor shall also comply with the requirements of local authorities/ project authorities calling for police verification of antecedents of the workmen, staff etc.

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10.6	The Contractor employing 20 or more workmen is required to obtain license from the authorities (The Deputy Chief Inspector of Factories / Assistant Commissioner of Labour as the case may be). The license shall be amended and / or renewed wherever, there is an increase in the workmen employed by him or in the event of contract being extended or renewed. The Contractor shall inform the licence number to the BHEL Management before taking up the work.
10.7	The Contractor (Licensed or unlicensed) shall promptly furnish every information and document required by BHEL authorities for the purpose of fulfilling their obligations as Principal Employer and and shall render all necessary assistance for the same.
10.8	The contractor shall take his individual ESI and PF code as an independent employer which shall be furnished before payment of his First RA Bill.
10.9	The tenderer has to ensure payment of Minimum Wages as per Punjab State Minimum Wages including its periodical revision as applicable under law from time to time. The Contractor shall have to remit EPF & ESI contributions at the rates applicable under law to the authorities concerned for the total wages paid (i.e) Payment of minimum wages and additional payment as mentioned above.
10.10	The laborers engaged in this contract shall be paid minimum wages and all other payment as notified by the government. Also the labourers shall be paid a minimum bonus as per the payment of Bonus Act 1965 for the total wages paid (i.e) Payment of minimum wages and additional payment as applicable.
10.11	The Contractor shall fix wage periods in respect of which wages shall be payable. No wage period shall exceed one month.
10.12	The Contractor shall ensure payment of wages to the contract labour employed by him within three days from the end of wage period in case the wage period is one week or a fortnight and in all other cases before 10th day of the following month
10.13	All Payment of wages shall be made on working days at the work site and during the working time and on date notified in advance. In case the work is completed before, the expiry of the wage period final payment shall be made within 48 hours of the last working day.
10.14	Where the employment of any worker is terminated by or on behalf of the Contractor, the wages earned by him shall be paid before the expiry of the second working day from the day on which his employment is terminated.
10.15	Wages due to every worker shall be paid to him direct or to the person authorized by him in this behalf. All wages shall be paid in current coin or currency in both.
10.16	The Contractor shall ensure the disbursement of wages in the presence of such authorized representative of BHEL Management.
10.17	The above payment shall be verified by the authorized officer / representative of BHEL with the following certificate of the payment sheet "Certified that the amount shown in Column No..... has been paid to the workmen concerned in my presence onat....."

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10.18	A certificate of payment shall be furnished in duplicate by the Contractor to the Engineer in charge each month in Form „A“.
10.19	A notice showing the wage period and the place and time of disbursement of wages shall be displayed at the place of work and a copy to be sent to the Welfare Department by the Contractor under acknowledgement.
10.20	<p>Notices showing the rate of wages, weekly rest days, hours of work, wage period, date of payment of wages, names and addresses of the Inspector having jurisdiction, the date of unpaid wages shall be displayed in Punjabi/Hindi and English in conspicuous places at the establishment and at work site by the Contractor. The Contractor shall inform the BHEL Management every month the details of contract labour engaged for contract in this following form :</p> <p>a) Serial Number b) Location c) Period of work d) No. of contract labour engaged during the month e) No. of days worked f) No. of men worked g) Wages paid to workers</p> <p>The above statement shall be furnished to BHEL Management at the end of every month.</p>
10.21	<p>The following documents / formats under Contract Labour (Regulation & Abolition) Act 1970 and Punjab State Government Rules thereunder shall be maintained by each contractor.</p> <p>a) Register of persons employed by the Contractor b) Employment Card c) Service Certificate d) Muster Roll, Wage Register, Deduction Register, Wage slip, Overtime Register, Register of Fines, Register of Advances etc.,</p>
10.22	The Contractor shall display the abstract of the Contract Labour (Regulation&Abolition) Act and the Rules thereunder both in English and Punjabi/Hindi
10.23	Half yearly Return shall be sent by the Contractor in duplicate to the Licensing Officer
10.24	The Contractor shall submit the returns required under the Contract Labour (Regulation & Abolition) Act 1970 periodically to BHEL Management.
10.25	The Contractor shall without fail give upto date information in writing of the attendance of the workers employed by him.
10.26	The Contractor shall ensure that his workers keep and produce their Employment Card when coming to duty and take them back when leaving duty
10.27	All the above registers and records shall be preserved in original for a period of three years. All the registers, records and notice maintained under the Act and rules shall be produced on

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	demand by Inspector or any authority under the Act.
10.28	<p>The Contractor shall give four paid National Holidays to his workers, viz., 26th January, 1st May, 15th August and 2nd October.</p> <p>The Contractor shall ensure that his workmen vacate the premises after the shift is over.</p> <p>The Contractor shall give leave with wages to his workmen who have worked for a period of 240 days or more in the Factory premises during a calendar year. This leave shall be allowed during the subsequent calendar year at the rate of one day for every 20 days of work performed by the worker during the previous calendar year. The worker whose services commences on a day other than the first of January shall be entitled to leave with wages at the above rate (One day for every 20 days of work) only if he had worked for a minimum of 2/3 of the total number of days in the remainder of the calendar year. This leave will be admissible only during the subsequent calendar year.</p>
10.29	<p>No worker shall be required or allowed to work on Sunday unless he has or will have a holiday on anyone of the three days before or after the said day.</p> <p>The Contractor shall inform BHEL Management in the prescribed form details of the contract workers scheduled to work on Sunday, the day of rest and also indicate the substituted holiday in lieu thereof. This shall be intimated two days in advance before his workmen are booked for work on Sunday.</p> <p>The contract labour working for more than nine hours in any day or for more than 48 hours in any week shall be paid wages at the rate of twice the ordinary rate of wages in accordance with the provisions of Sections 59 of the Factories Act 1948.</p> <p>The Contractor shall provide all safety devices and personal protective equipment to his workmen at his own cost and shall ensure that his workmen wear / use such devices or equipment provided to them while doing the work and there should not be any relaxation on this.</p>
10.30	<p>No woman worker shall be required or allowed to work in the Factory except between the hours of 6.00 A.M. and 7.00 P.M.</p> <p>The Contractor shall comply with the provisions relating to Welfare and Health facilities as provided in the Contract Labour (Regulation and Abolition) Act 1970 read with the Punjab State Governments' Contract Labour Rules, if any.</p>
10.31	<p>Notwithstanding anything contrary to this, in the event of accident the contractor shall be required to fill injury report and submit the Engineer in charge immediately and ensure the compliances of ESI / Workmen's compensation Act, Factories Act and Rules made thereunder. He shall also maintain a register of accident as per the Act.</p> <p>The Contractor shall get the contract labour engaged by him insured under Workmen's Compensation policy from General Insurance Corporation of India before actually starting the work of contract. The insurance coverage should be for the entire period of Contract. The Contract shall comply with the provisions of the Workmen's Compensation Act 1923. (This should be read in conjunction with the provisions of ESI Act)</p>

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10.32	The contractor shall ensure that all his workmen are covered under the Employee's State Insurance Act and produce to BHEL such Registration Number / Enrolment Number before executing the contract work.
10.33	The Contractor shall regularly pay the amount of contribution. i.e., employer's contributions as well as employees' contribution pursuant of the above scheme as fixed from time to time.
10.34	<p>The Contractor shall take note of any amendment that may be brought forth in the above contribution rate and act accordingly.</p> <p>The contractor shall ensure that his workmen are covered under the EPF & Miscellaneous Provisions Act 1952 and accordingly produce to the BHEL Management the registration / enrolment number before awarding of contract work. As per the existing provisions every worker shall be entitled and required to become a member of the fund. The employee's contribution payable at present is 12% of wages which will be recovered by the contractor from the wages of his workmen and the contractor should pay equal contribution. The contractor is also liable to pay any administrative charges in this behalf that may be decided from time to time. It will be the responsibility of the contractor to ensure such contribution payable in respect of workmen employed through sub- contractors also.</p> <p>The Contractor shall take note of any amendment in the rate of contribution payable under the scheme from time to time.</p>
10.35	The Contractor shall within seven days of the close of every month submit to BHEL a statement showing the amount of contribution payable / paid for employees engaged by him or through him and shall also furnish to BHEL such information as Principal Employer is required to furnish under the provisions of the ESI Act and PF as well as the schemes made thereunder to the authorities concerned.
10.36	Whenever any sum of money is found to be recoverable from or payable by the contractor under the above Act, the sum shall be deducted from any sum that may be due or which at any time thereafter may become due to the Contractor under this contract or under any other contract or from his security deposit. In case the recoveries are not sufficient to satisfy the claim, the contractor shall pay the balance thereof on demand. In case any recoveries are made under this clause from security deposit, the contractor shall immediately thereafter pay such further sums as may be required to replenish the shortage caused by such recoveries in amount of security deposit.
10.37	The Contractor shall abide by all the labour and other laws applicable to contract labour / worker under this contract and shall at all times keep BHEL indemnified against all losses, claims, prosecutions under any law.
10.38	Contractor shall provide at different elevation suitable arrangement for urinal and drinking water facility with necessary plumbing & disposal arrangement including construction of septic tank. These installations shall be maintained in hygienic condition at all times.
10.39	<p>Non-exercise of any of the powers or rights available to BHEL hereunder or under any law, shall not in any way operate as waiver thereof.</p> <p>Note : The Specimen forms for the following are available in BHEL.</p>

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	<p>1) Form „A“ - Payment Certificate</p> <p>2) Form IV - Application for License</p> <p>3) Form XIII - Register of Workmen employed by contractor</p> <p>4) Form XI - Employment Card</p> <p>5) Form XV - Service Certificate</p> <p>6) Form XVI - Muster Roll</p> <p>7) Form XV I - Register of wages</p> <p>8) Form XIX - Wage slip</p>
10.40	BHEL may insist for witnessing the regular payment to the labor. They may also like to verify the relevant records for compliance with statutory requirements. Contractor shall enable such facilities to BHEL.
10.41	In case of non-compliance of any of the provisions of the Acts and in case BHEL having complied with the same, BHEL will be entitled to recover the same from the contractor / sub-contractor.
11.0	INTEGRITY PACT
11.1	BHEL is committed to fostering the most ethical and corruption free environment and values its relationship with all bidders, contractors and vendors. Conducting business in a transparent, fair and corruption free manner will go in a long way in making the vendors and contractors our partners in progress and to reinforce this belief an Integrity Pact has been adopted by BHEL for all major tenders/contract. Contractor shall enter in to such integrity pact agreement with BHEL and will abide for same.
12.0	SUSPENSION OF BUSINESS DEALINGS
12.1	BHEL reserves the right to take action against contractors who fail to perform or indulge in malpractices, by suspending business dealings with them as per the BHEL procedures.
12.2	Suspension could be in the form of “Hold”, DE-Listing” or Banning a contractor.

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ANNEXURE VI**TECHNICAL CONDITIONS OF CONTRACT****CONTENTS**

SI No	DESCRIPTION	CHAPTER	Page No.
1	Project Site synopsis	Chapter-I	101
2	General Scope of Works	Chapter-II	102-108
3	Scope Matrix to facilitate construction	Chapter-III	109-112
4	Tools, Plants, equipment's, Measurement, and Testing Devices and Technical and Non-Technical Staff to be deployed by contractor.	Chapter-IV	113-115
5	Material	Chapter-V	115-118
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CHAPTER -1**PROJECT SITE SYNOPSIS**

Name of the Owner	BHARAT HEAVY ELECTRICALS LTD
Address of the tender inviting division of owner	INDUSTRIAL VALVES PLANT 433- Industrial Complex, Goindwal Sahib, Distt. Tarn –Taran, Punjab, Pin -143422
Name of work	Construction of New residential buildings in BHEL township for BHEL IVP Goindwal Sahib, Punjab.
Address of site of work	Phase 1 –Residential Complex, Goindwal Sahib, Distt. Tarn Taran, Punjab
Nearest railway station (Major Connectivity)	Amritsar /Jalandhar (both station are approximately 50 Km Away from Goindwal.
Nearest bus stand (Major Connectivity)	Amritsar /Jalandhar (both station are approximately 50 Km Away from Goindwal.
Nearest Distt. Level city	Tarn-Taran (approximately 24 Km away from Goindwal)
Other nearer Distt. Level city	Kapurthala (approximately 30 Km away from Goindwal)
Nearest airport	Amritsar (Raja Sansi)
Town/city/village where site is located	Village : Goindwal Sahib, Tehsil: Khadoor Sahib, Distt. Tarn –Taran
Population	7772 (census 2010)
Highest temp. during summer	47/48° C
Lowest temp. during winter	1-2 ° C
Type of Soil	Alluvial/Sandy Loam
Basic Wind Speed	47 M/s
Earthquake Zone	Zone IV

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CHAPTER –II

2 GENERAL SCOPE OF WORK

2.1 The Scope of Work covers the construction of all works for “Construction of new residential buildings in BHEL Township for BHEL IVP Goindwal sahib Punjab”.

2.2 Work under this tender includes supply of material and construction of buildings (G+1) in Loadbearing structure including all excavation works for foundations, pipes ,footings etc PCC works, brick works below plinth level and in superstructure, RCC works in beams and slabs, sumps, wood works, Finishing works in cement plaster, Paints , distemper ,Emulsion, putty , Steel works in frames, Jalli, waterproofing works , flooring works with tiles, marbles and marble chips, Water supply , Sanitation and drainage Works, electrical Works including supply of all materials, labour, consumables, transportation, sample testing but excluding supply of grey cement and steel reinforcement.

2.3 The scope of work shall generally include but not limited to the construction of the following. The contractor is required to carry out all the items indicated in the BOQ cum rate schedule.

- Earthwork including excavation, filling, compaction, leveling and grading, Anti termite treatment, supplying at site good earth and river sand (fine) for filling purpose.
- Plain & Reinforced cement concrete works in beams & Slabs and Masonry (Full and half brickwork) in plinth and superstructure.
- Scaffolding & Formwork
- Finishing work including plastering, doors/windows, flooring, painting etc.
- Water supply and Sanitary work., PPR, GI pipes laying works, Construction of underground water sump and installation of overhead Tanks on roofs. Installation of Sanitary and water supply fixtures and fittings.
- Electrification of Building by providing Incoming cable, Main Distribution Board, Wiring for installation of Light fixtures, power sockets, Exhaust fans, Energy meter Etc
- Drainage(open and covered), SWR,SCI, pipes laying works
- MS gates for Entrance/Exit, Pressed steel frames for Doors and windows. Flush doors, Veener lumber wire gauge shutters, Solid PVC doors, Powder Coated Aluminium windows and Glass paneling works, Teak wood work.
- Water proofing works by APP membranes.
- The Contractor may be required to cut / relocate some of the existing plants / trees and to implant and maintain at least 100 new plants / trees and landscaping with flowers etc. of approximately 100 Sq. M of assorted type at BHEL township or around within first month of the contract and maintain it till the tenure of the contract. No separate payment will be made for this work.

2.4 The scope of work will also include such other related works although they may not be specifically mentioned in the above paragraph and all such incidental items not specified but reasonably implied and necessary for completion of the job as a whole all as desired and as directed by the engineer. The detail scope of work covered above is not a comprehensive list of items of work involved. The detail scope of work may vary considerably depending on the actual construction requirements.

2.5 The work under this contract shall be carried out as per BOQ Cum Rate Schedule. In case the description /

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specifications as per BOQ are found to be incomplete Indian standard specifications and CPWD works specifications shall be followed. Quantities mentioned in the rate schedules are approximate only and liable for variation due to change of scope of work / variation in schedule of quantities, changes in design etc. The tenderers shall undertake to execute actual quantities as per advice of BHEL Engineer and accordingly the final contract price shall be worked out on the basis of quantities actually erected at site and payments will also be regulated for the same. The quantities indicated against each item may vary to any extent and no compensation will be payable in variation of Individual quantity till overall value of work executed is more than 20% of contract value of work.

2.6 ALSO INCLUDED IN THE SCOPE

Unless otherwise specified, the work to be provided by the contractor for the items mentioned in the “Bill of Quantities” shall include but not be limited to the following.

- Furnishing all labor, materials, supervision, construction plants, equipment, supplies, transport, to and from the site, fuel, transit and storage insurance and all other incidental items and temporary works not shown on specified but reasonably implied or necessary for the proper completion, maintenance and handling over the works, except in accordance with the stipulations laid down in the contract documents and additional stipulations as may be provide by the engineer during the course of works.
- Furnishing samples of all materials required by the engineers for testing / inspection and approval for use in the works. The engineer for final incorporation in the works may retain the samples.
- Furnishing test reports for the products used or intended to be used, if called for the specifications or if so desired by the engineer.
- Giving all notices, paying all fees, taxes etc., in accordance with the general conditions of contract, that are required for all works including temporary works.
- Arranging manufacturer’s supervision for items of work done as per manufacturer’s specifications when so specified.
- Carrying out topographic survey of the work area and establish levels and coordinates at suitable intervals from existing grid levels and coordinates furnished by the owner established bench marks, setting out the locations and levels of proposed structures, constructions and marking of reference pillars and other identification works etc., The contractor shall provide the owner/BHEL such a assistance, instruments, machines, labour and materials as are normally required for examining, measuring and testing any work and the quality, weight or quantity of any material used.
- Providing all incidental items not shown or specified but reasonably implied or necessary for the successful completion of the work in accordance with contract.

2.7 Buildings are to be constructed as per the Green building norms and GRIHA rating of minimum 3 Star is to be obtained from ‘GRIHA’ after evaluation of construction. Contractor scope shall also include all workmanship, quality of materials and construction methods as per the Green building norms as suggested by GRIHA professionals. An independent Architect/Consultant will assist BHEL in obtaining GRIHA rating. Contractor shall follow all technical instructions given by Architect / Consultants and GRIHA Professionals.

2.8 A table 1 and table 2 is placed in next pages to make the bidders familiar with idea of construction. The content of these tables are based on preliminary concepts design of buildings. Actual may be different if

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required by Architect consultant and 'GRIHA' professionals.

Table 1

Detail of Construction

S/n	Category	Quantity	Approximate Covered area of Building (Sq-m)	Type of structure
A	Buildings category 1	14 Nos	219.00	Brick Masonry with RCC Slabs, Loadbearing (G+1)
B	Buildings category 2	6 Nos	290.0	Brick Masonry with RCC Slabs, Loadbearing (G+1)
C	Buildings category 3	2 Nos	152.00	Brick Masonry with RCC Slabs, Loadbearing (G+0)
D	Buildings category 4	1 Nos	290.00	Brick Masonry with RCC Slabs, Loadbearing (G+1)
E	Buildings category 5	4 Nos	435.00	Brick Masonry with RCC Slabs, Loadbearing (G+1)
F	Buildings category 6	1 Nos	295.00	Brick Masonry with RCC Slabs, Loadbearing (DUPLEX)
G	Buildings category 7	1 Nos	346.00	Brick Masonry with RCC Slabs, Loadbearing (G+2)
H	Buildings category 8	2 Nos	120.00	Brick Masonry with RCC Slabs, Loadbearing over first floor
I	Water sump	1 Nos	Under ground	RCC Tank of Capacity 25KL

Table 2

Specifications of the work (based on preliminary concept designs of buildings)

S N o.	Description	TYPE 'A' Quarters	TYPE 'A modified' Quarters	TYPE 'B' Quarters	Type 'C' Quarters	TYPE 'D' Quarters	TYPE 'E' Quarters
•	STRUCTURE	Load bearing masonry structure with EQ resistant design	Load bearing masonry structure with EQ resistant design	Load bearing masonry structure with EQ resistant design	Load bearing masonry structure with EQ resistant design	Load bearing masonry structure with EQ resistant design	Load bearing masonry structure with EQ resistant design
•	SPECIAL PROVISIONS	Green building Norms					

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S N o.	Description	TYPE 'A' Quarters	TYPE 'A' modified' Quarters	TYPE 'B' Quarters	Type 'C' Quarters	TYPE 'D' Quarters	TYPE 'E' Quarters
B	FLOORING WORKS						
I	All Internal circulation area including rooms and Kitchen etc	Crazy Ceramic Tile Flooring/ Terrazzo Tile Flooring	Crazy Ceramic Tile Flooring/ Terrazzo Tile Flooring	Crazy Ceramic Tile Flooring/ Terrazzo Tile Flooring	Crazy Marble Flooring/White Marble Flooring	White Marble Flooring	White Marble Flooring
II	Other Common circulation area including Stair Halls etc	Kota Stone Flooring	Kota Stone Flooring	Kota Stone Flooring	Kota Stone Flooring	Kota Stone Flooring	Marble Flooring/ Carpet flooring
III	External Circulation Area Viz Porch , Balcolony, Varandaha , Internal Courtyard etc	Paver flooring/CC flooring with landscape	Paver flooring/CC flooring with landscape	Paver flooring/CC flooring with landscape	Paver flooring/CC flooring with landscape	-	Marble Flooring
IV	Other External Circulation area	Paver flooring/CC flooring with landscape	Paver flooring/CC flooring with landscape	Paver flooring/CC flooring with landscape	Paver flooring/CC flooring with landscape	-	-
V	Toilets/ Bathrooms	Ceramic tiles on walls and Floors ; tiles on walls up to door height	Ceramic tiles on walls and Floors ; tiles on walls up to door height	Ceramic tiles on walls and Floors ; tiles on walls up to door height	Ceramic tiles on walls and Floors ; tiles on walls up to door height	Ceramic tiles on walls and Floors ; tiles on walls up to door height	Ceramic tiles on walls and Floors ; tiles on walls up to door height
VI	Kitchen work Top	Green Marble	Green Marble	Green Marble	Green Marble	Green Marble	Green Marble
VI I	Dado in Kitchen Counter	Glazed Ceramic tiles all side;60 cm Height	Glazed Ceramic tiles all side;60 cm Height	Glazed Ceramic tiles all side;60 cm Height	Glazed Ceramic tiles all side;60 cm Height	Glazed Ceramic tiles all side;60 cm Height	Glazed Ceramic tiles all side;60 cm Height
C	FINISHING WORKS						
I	Internal Finishing	OBD + Putty Work all around	OBD + Putty Work all around	OBD + Putty Work all around	PLASTIC PAINT+ Putty Work all around	PLASTIC PAINT+ Putty Work all around	PLASTIC PAINT+ Putty Work all around

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S N o.	Description	TYPE 'A' Quarters	TYPE 'A' modified' Quarters	TYPE 'B' Quarters	Type 'C' Quarters	TYPE 'D' Quarters	TYPE 'E' Quarters
II	External Finishing	Premium Acrylic smooth exterior finish	Premium Acrylic smooth exterior finish	Premium Acrylic smooth exterior finish	Premium Acrylic smooth exterior finish	Premium Acrylic smooth exterior finish	Premium Acrylic smooth exterior finish
III	Wood/Steel Work	Enamel	Enamel	Enamel	Enamel	Enamel	Polish on Wood and Enamel on Steel
D	Frames- Doors /Windows						
I	Window	Pressed steel frames made out of corrosion resistant coated sheet of 1.6 mm thick with double rebate /single rebate	Pressed steel frames made out of corrosion resistant coated sheet of 1.6 mm thick with double rebate /single rebate	Pressed steel frames made out of corrosion resistant coated sheet of 1.6 mm thick with double rebate /single rebate	Pressed steel frames made out of corrosion resistant coated sheet of 1.6 mm thick with double rebate /single rebate	Pressed steel frames made out of corrosion resistant coated sheet of 1.6 mm thick with double rebate /single rebate	Pressed steel frames made out of corrosion resistant coated sheet of 1.6 mm thick with double rebate /single rebate
II	Door	-DO-	-DO-	-DO-	-DO-	-DO-	-DO-
E	Shutters- Door / Window						
I	Window	Veneer lumber glazed shutter / Veneer lumber GI wire gauged shutter	Veneer lumber glazed shutter / Veneer lumber GI wire gauged shutter	Veneer lumber glazed shutter / Veneer lumber GI wire gauged shutter	Veneer lumber glazed shutter / Veneer lumber GI wire gauged shutter	Veneer lumber glazed shutter / Veneer lumber GI wire gauged shutter	Veneer lumber glazed shutter / Veneer lumber GI wire gauged shutter/ teak wood shutter
II	Room /Kitchen Doors	35 mm thick Flush door (blockboard construction) non decorative type+ Main doors with wire gauge shutter (30 mm thick veneer lumber)	35 mm thick Flush door (blockboard construction) non decorative type+ Main doors with wire gauge shutter (30 mm thick veneer lumber)	35 mm thick Flush door (blockboard construction) non decorative type+ Main doors with wire gauge shutter (30 mm thick veneer lumber)	35 mm thick Flush door (blockboard construction) non decorative type+ Main doors with wire gauge shutter (30 mm thick veneer lumber)	35 mm thick Flush door (blockboard construction) decorative type+ Main doors with wire gauge shutter (30 mm thick veneer lumber)	35 mm thick Flush door (blockboard construction) decorative type+ Main doors with wire gauge shutter (30 mm thick veneer lumber)/tea k wood

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S N o.	Description	TYPE 'A' Quarters	TYPE 'A modified' Quarters	TYPE 'B' Quarters	Type 'C' Quarters	TYPE 'D' Quarters	TYPE 'E' Quarters
III	W.C / Bath room	Solid PVC shutters 30 mm thick (non decorative)	Solid PVC shutters 30 mm thick (non decorative)	Solid PVC shutters 30 mm thick (non decorative)	Solid PVC shutters 30 mm thick (decorative)	Solid PVC shutters 30 mm thick (decorative)	Solid PVC shutters 30 mm thick (decorative)
IV	Fittings	Aluminum fittings	Aluminum fittings	Aluminum fittings	Aluminum fittings	Aluminum fittings	Brass fittings
V	Covered cup boards in Kitchen	One provided with 25 mm thick flush door	One provided with 25 mm thick flush door	One provided with 25 mm thick flush door	One provided with 25 mm thick flush door	One provided with 25 mm thick flush door	One in shelves other below cooking platform all provided with decorative ply board
VI	Wardrobes	With Kota Stone Slab in bed room upto ceiling height and with 25 mm thick flush door	With Kota Stone Slab in bed room upto ceiling height and with 25 mm thick flush door	With Kota Stone Slab in bed room upto ceiling height and with 25 mm thick flush door	With Kota Stone Slab in bed room upto ceiling height and with 25 mm thick flush door	With Kota Stone Slab in bed room upto ceiling height and with 25 mm thick flush door	With Kota Stone Slab in bed room upto ceiling height and with 25 mm thick flush door
F	SANITATION						
I	Indian W.C. Pan with flushing cistern	One WC Pan Orissa pattern with low level PVC Flushing Cistern	One WC Pan Orissa pattern with low level PVC Flushing Cistern	One WC Pan Orissa pattern with low level PVC Flushing Cistern	One WC Pan Orissa pattern with low level PVC Flushing Cistern	-	Two WC Pan Orissa pattern with low level PVC Flushing Cistern
II	European type W.C. with low level flushing cistern	-	-	-	One; with Low Level Ceramic Flushing Cistern.	One; with Low Level Ceramic Flushing Cistern.	Three; with Low Level Ceramic Flushing Cistern.
III	Wash basin with CP Pillar COCK	ONE with bathroom	ONE with bathroom	ONE with bathroom	ONE with bathroom	ONE with bathroom	ONE with each bathroom
IV	BIB COCK (kitchen bath & W.C.)	CP POLISHED	CP POLISHED	CP POLISHED	CP POLISHED	CP POLISHED	CP POLISHED

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S N o.	Description	TYPE 'A' Quarters	TYPE 'A' modified' Quarters	TYPE 'B' Quarters	Type 'C' Quarters	TYPE 'D' Quarters	TYPE 'E' Quarters
V	BIB COCK (Porch /Varandaha/Court yard)	PTMT	PTMT	PTMT	PTMT	PTMT	PTMT
VI	Shower	PTMT	PTMT	PTMT	CP	CP	CP
VI I	Towel rail	PTMT	PTMT	PTMT	PTMT	PTMT	PTMT
VI II	Towel ring/ self	PTMT	PTMT	PTMT	PTMT	PTMT	PTMT
IX	Main water supply	GI	GI	GI	GI	GI	GI
X	Distribution water supply	PPR	PPR	PPR	PPR	PPR	PPR
XI	Water proofing	3 mm APP+ mudphuska+b rick tile	3 mm APP+ mudphuska+b rick tile	3 mm APP+ mudphuska+b rick tile	3 mm APP+ mudphuska+b rick tile	3 mm APP+ mudphuska+b rick tile	3 mm APP+ mudphuska +brick tile

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CHAPTER –III**SCOPE MATRIX TO FACILITATE CONSTRUCTION**

S/N	CONSTRUCTION FACILITY (Brief description)	SCOPE/ RESPONSIBILITY		REMARKS
		BHEL	BIDDER	
1.	<u>ESTABLISHMENT</u>			
1.1	<u>FOR CONSTRUCTION PURPOSE:</u>			
A	Open space for office	Yes	-	BHEL shall provide free of charge limited open space for office and store as and where made available.
B	Open space for storage	Yes	-	
C	Construction of bidder's office, canteen and storage building including supply of materials and other services	-	Yes	
D	Bidder's all office equipment's, office / store / canteen consumables	-	Yes	
E	Canteen facilities for the bidder's staff, supervisors and engineers etc	-	Yes	
F	Firefighting equipment's like buckets, extinguishers etc	-	Yes	
G	Fencing of storage area, office, canteen etc of the bidder	-	Yes	
1.2	<u>FOR LIVING PURPOSES OF THE BIDDER</u>	-		
A	Open space	-	Yes	Arrangement of space/area will have to be done by contractor due to unavailability of space with BHEL
B	Living accommodation	-	Yes	
2	<u>POWER / WATER/ COMPRESSED AIR</u>			
2.1	<u>POWER (ELECTRICITY)</u>			
2.1.1	<u>Electricity For construction purposes (to be specified whether chargeable or free)</u>	-	Yes	Contractor shall have to do suitable arrangement for electricity. However BHEL may assist for connection with its own supply but it will be chargeable at the prevailing rates of electricity distribution board/company
A	Single point source	-	Yes	
B	Further distribution for the work to be done which include supply of materials and execution	-	Yes	
2.1.2	<u>Electricity for the office, stores, canteen and living accommodation and all other purpose other than construction etc by the bidder which include:</u>	-	Yes	Contractor only shall have to do suitable arrangement for electricity

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A	Distribution from single point including supply of materials and service	-	Yes	
B	Supply, installation and connection of material of energy meter including operation and maintenance	-	Yes	
C	Duties and deposits including statutory clearances for the above	-	Yes	
D	Living facilities for office use including charges	-	Yes	
E	Demobilization of the facilities after completion of works	-	Yes	
2.2	<u>WATER SUPPLY</u>			
2.2.1	<i>For construction purposes: (to be specified whether chargeable or free)</i>			
A	Making the water available at single point	YES	-	BHEL will give single source supply of water
B	Further distribution as per the requirement of work including supply of materials and execution	-	Yes	For construction, purpose and suitable recovery at the rate of 0.861 % of value of work done (excluding the cost of all material) shall be done from contractor's bill against supply of water.
2.2.2	<i>Water for the office, stores, canteen and living accommodation and all other purpose other than construction etc by the bidder which include:</i>	-	Yes	
A	Making the water available at single point	-	Yes	
B	Further distribution as per the requirement of work including supply of materials and execution	-	Yes	
2.3	<u>COMPRESSED AIR</u>	-	Yes	
2.4	<u>LIGHTING</u>			
A	For construction work (supply of all the necessary materials) 1. At office storage area 2. At the preassembly area 3. At the construction site /area	-	Yes	
B	For construction work (execution of the lighting work/ arrangements) 1. At office storage area 2. At the preassembly area 3. At the construction site /area	-	Yes	
C	Providing the necessary consumables like bulbs, switches, etc during the course of construction	-	Yes	

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D	Lighting for the living purposes of the bidder at the colony / quarters	-	Yes	
3	COMMUNICATION FACILITIES FOR SITE OPERATIONS OF THE BIDDER			
A	Telephone, fax, internet, intranet,	-	Yes	
4	ENGINEERING WORKS FOR CONSTRUCTION:			
4.1	Providing the drawings good for construction for all the works covered under this scope	Yes	-	
4.2	As-built drawings – where ever deviations observed and executed and also based on the decisions taken at site in the reference of drawings issued by BHEL	-	Yes	”
4.3	Mix design of concrete	-	Yes	
4.4	Testing of Concrete cubes, bricks, Stones, Tiles and all those material brought by Contractor at Site of work.	-	Yes	
4.5	Testing of cement , reinforcement Steel and all those material issued to Contractor by BHEL	Yes	-	
5	CONSTRUCTION MATERIAL			
5.1	Supply of Grey Cement and Steel reinforcement	Yes	-	Free issued by BHEL however, cost will be communicated to the contractor when he will ask for this.
5.2	Carriage of BHEL issued material from BHEL store to site of work	-	Yes	
5.3	All other material required for construction as per scope of work (other than grey cement and steel reinforcement)	-	Yes	
5.4	Construction stores for Material available at site (both material either issued by BHEL or brought by contractor)	-	Yes	Contractor store should be of such capacity that all available material including 5000 bags of cement may be stored safely.
6	ALL T&P , IMTE REQUIRED FOR CONSTRUCTION AS PER SCOPE OF WORK	-	Yes	Detail is given in this tender document (technical conditions of contract)
7	ALL SAFETY EQUIPMENT'S, APPLIANCES AND PPES FOR SAFE WORKING OF MEN AND MACHINES AT CONSTRUCTION SITE	-	Yes	Detail is given in this tender document (special conditions of contract)

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8	SUPERVISION AND MONITORING OF WORK			
8.1	Preparation of site construction schedules and other input requirements	-	Yes	
8.2	Review of performance and revision of site construction schedules in order to achieve the end dates and other commitments	Yes	Yes	
8.3	Weekly construction schedules	-	Yes	
8.4	Daily construction / work plan	-	Yes	
8.5	Periodic visit of the senior official of the bidder to site to review the progress so that works are completed as per schedule. It is suggested this review by the senior official of the bidder should be done once in every two months.	-	Yes	
8.6	Monitoring the technical and financial aspect of work and review of site supervision	Yes	Yes	
9	COMPLIANCE OF STATUTORY LAWS APPLICABLE ON SITE WORK	-	Yes	
10	DEVELOPMENT OF GREEN , TREE PLANTATION TO IMPROVE THE ENVIRONMENT	Yes	Yes	100 Trees shall be planted by each BHEL & contractor
11	SAFE DISPOSAL OF ALL DEBRIS, GARBAGE AND RUBBISH GENERATED AT CONSTRUCTION SITE	-	Yes	

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CHAPTER –IV**LIST OF TOOL & PLANTS, (T&P) ; INSPECTION, MEASURING AND TESTING EQUIPMENT'S (IMTE's) TO BE DEPLOYED BY THE CONTRACTOR**

- INDICATIVE LIST OF T & P; IMTE TO BE ARRANGED BY THE CONTRACTOR FOR EXECUTING THE WORK AT SITE AT HIS OWN COST

Sl. No.	EQUIPMENT	QTY
1	Concrete mixers of minimum full bag capacity	5 NO (minimum)
2	Fully automatic Batching plant (min. 10 cum capacity) with pump	1 No. (minimum)
3	Mortar Mixer	2 No. (minimum)
4	Concrete vibrators for beam, slab, column, Shutter	10 NO (minimum)
5	Steel shuttering	3000 sq.m. with minimum of 1500 sqm procured during last two years.
6	Steel props	9000 m3 space with min. of 4500 m3 space procured during last two years
7	JCB, Excavator, Dozer, Jack Hammers with compressor	Min. 1 jcb/excavators or as per work requirement
8	Trucks/lorries/Tractors/Dumpers	Min. 1 and extra as per work requirement
9	Water tanker	1 no. minimum or as per work requirement
10	Dewatering pump	as per work requirement
11	Builders hoist/Tower crane/Hydra	1 No. or as per work requirement
12	Steel cutter, Granite /Marble cutter	Min 5 No. each or as per work requirement
13	Concrete cubes molds	Min 15 No. and extra as per work requirement
14	Compressive strength testing machine for concrete/bricks etc	Min 1 No.
15	Total station/auto level	1 NO
16	Measuring Tape	As per requirement

NOTES:

- The above list specifies only major T&P /IMTEs (may not be complete to be deployed by the contractor). All additional / other tools and plants including trucks & devices, tackles, machines, measuring instruments etc. in good and safe working conditions which are required for satisfactory & timely completion of work shall also be deployed by the contractor within finally accepted rate / price.

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Contractor has to mobilize / maintain adequate numbers of equipment's for meeting the requirement of actual planned work of Concreting / masonry / Flooring /Finishing etc.

- Other terms and conditions regarding above items please also refer clause 5 OF SCC and Clause 24 GCC.
- All the tools and plants required for this scope of work, except the Tools & Plants provided by BHEL are to be arranged by the contractor within the quoted rates. The list is suggestive in nature. Any additional T & P required to be arranged by the contractor.
- IF ABOVE MENTIONED T&P/IMTEs ARE NOT DEPLOYED IN SPECIFIED TIME AND IT IS FOUND THAT WORK IS BEING DELAYED DUE TO NON DEPLOYMENT OF ADEQUATE T&P, BHEL MAY DECIDE TO HIRE THE T&P FROM MARKET AND WILL CHARGE TO CONTRACTOR CURRENT MARKET RATE + OVERHEADS AS DECIDED BY BHEL , FOR NON AVAILABILITY OF T&P or levy a day wise penalty for non-deployment for delayed deployment in the interest of work progress .
- If work gets delayed due to non-availability of T&P/IMTEs , BHEL also reserves the right to get the work done at the risk and cost of contractor without prejudice to rights of BHEL as in GENERAL CONDITIONS OF CONTRACT.
- **LIST OF TECHNICAL AND NON-TECHNICAL STAFF TO BE DEPLOYED BY THE CONTRACTOR**

Sl. No.	Requirement of staff	Numbers	Minimum experience (Years)	Designation
1	Project Manager with degree in Civil Engineering	01	10	Principal Technical representative
2	Graduate Engineer with degree in Civil Engineering	1	05	Technical representative
3	Graduate Engineer with degree in Civil Engineering (OR)	2	Nil	Technical representative
4	Diploma Engineer	2	5	Technical representative
5	Skilled /unskilled workers and foremen	As per actual requirement of work.		

- Above is an indicative list of minimum numbers and qualification of staff required to be deployed by Contractor at site. Actual may be higher than this as and when required to do so in the interest of work.

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- In case if minimum qualified staff in required minimum quantity is not deployed by Contractor on this site or it is absent for 30 days or more from the site than a suitable recovery as stipulated in special conditions of contract will be done from contractors s bill.

CHAPTER –V

5.0 MATERIALS

- The contractor shall, at his own expenses (Inclusive of Taxes), provide all materials required for the work EXCLUDING THOSE stipulated in Schedule “B” of Part 2 –Price bid of this tender document, which will be supplied by BHEL to the contractor free of cost.
- All stores and materials to be provided by the Contractor shall be of the best kind in conformity with the specifications laid down in the contract or as per relevant Indian standard and the Contractor shall, if requested by the **BHEL** Engineer, furnish proof to the satisfaction of **BHEL** Engineer that the materials so comply.
- The Contractor shall, at his own expense and immediately, supply to the BHEL Engineer samples of materials proposed to be used in the works. The BHEL Engineer shall within seven days of supply of samples or within such further period as he may require will intimate to the Contractor in writing, whether samples are approved by him or not. If samples are not approved, the Contractor shall forthwith arrange to supply to the BHEL Engineer for his approval fresh samples complying with the specifications laid down in the Contract. Any delay in approval of samples (original or fresh ones) shall not make the contractor eligible for any compensation.
- The **BHEL** Engineer shall have full powers for removal of any or all of the materials brought to site by the Contractor which are not in accordance with the Contract specifications or do not conform in character or quality to samples approved by him. In case of default on the part of the Contractor in removing rejected materials, the Engineer shall be at liberty to have them removed by other means. The **BHEL Engineer** shall have full powers to procure other proper material to be substituted for rejected materials and in the event of the Contractor refusing to comply; he may cause the same to be supplied by other means. All costs, which may attend upon such removal and / or substitution, shall be borne by the Contractor.
- The Contractor shall indemnify BHEL, its representatives or employees against any action, claim or proceeding relating to infringement or use of any patent or design or any alleged patent or design rights and shall pay any royalties or other charges which may be payable in respect of any article or material or part thereof included in the Contract. In the event of any claim being made or action being brought against BHEL or any agent, servant or employee of BHEL in respect of any such matters as aforesaid, the Contractor shall immediately be notified thereof, provided that such indemnity shall not apply when such infringement has taken place in complying with the specific directions issued by BHEL but the Contractor shall pay any royalties or other charges payable in respect of any such use, the amount so paid being reimbursed to the Contractor only if the use was the result of any drawings / specifications issued after submission of the tender.

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- The **BHEL** Engineer shall be entitled to have tests carried out as specified in the Contract for any materials supplied by the Contractor other than those for which, as stated above, satisfactory proof has already been furnished, at the cost of the Contractor and the Contractor shall provide at his expense all facilities which the Engineer may require for the purpose. If no tests are specified in the Contract, and such tests are required by the Engineer, the Contractor shall provide all facilities required for the purpose and the charges for these tests shall be borne by the Contractor only. The cost of materials consumed in tests shall be borne by the Contractor in all cases except when otherwise provided.

In addition, the Contractor shall perform / submit at his own cost such tests / samples as may be required by the **BHEL** Engineer out of the materials used by the company except for the costs of materials used in such tests/ samples.

- After acceptance of the Contract, if Contractor desires **BHEL** to supply any other materials, such material may be supplied by **BHEL**, if available, at rates to be fixed by the **BHEL** Engineer along with prevailing departmental charges to be decided at the time of decision. **BHEL** reserve the right for not to issue any material. The non-issue of such material will not entitle the Contractor for any compensation whatsoever either in time or in cost.
- Material required for the works, whether brought by the Contractor or supplied by **BHEL**, shall be stored by the Contractor only at places approved by the Engineer. Storage and safe custody of material shall be the responsibility of the contractor.
- **BHEL's** officials concerned with the Contract shall be entitled at any time to inspect and examine any materials intended to be used in or on the works, either on the Site or at factory or workshop or other place(s) where such materials are assembled, fabricated, manufactured or at any place (s) where these are lying or from which these are being obtained and the Contractor shall give such facilities as may be required for such inspection and examination.
- All materials brought to the Site shall become and remain the property of **BHEL** and shall not be removed off the Site without the prior written approval of the Engineer. But whenever the Works are finally completed and advance, if any, in respect of any such material is fully recovered, the Contractor shall at his own expense forthwith remove from the Site all surplus material originally supplied by him and upon such removal, the same shall re-vest in and become the property of the Contractor.
- Other relevant conditions as stipulated in Clause 5 of SCC and chapter II and III of GCC will also prevail.

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APPROVED MAKE OF MATERIALS

1. REINFORCEMENT STEEL : FE 500 Bars (not in contractors scope)
2. CEMENT : PPC (not in contractors scope)
3. PAINTS/DISTEMPER/ENAMEL/EMULSION : JOHNSON & NICHOLSON, BERGER, ICI, ASIAN PAINT, NEROLAC
4. PUTTY : BIRLA WHITE, Jk
5. FLOOR/WALL TILES : ORIENT, NITCO, SOMANY, KAJARIA, EURO, JOHNSON
6. ALUMINIUM WORK : HINDALCO, NALCO, JINDAL
7. GLASS/GLAZING : SAINT GOBAIN, MODI,
8. PLYWOOD : KITPLY, GREENPLY, CENTURY
9. GI & MS PIPES : JINDAL, TATA, PRAKASH, RAVINDRA
10. MCB DB - LEGRAND, SIEMENS, L&T, C&S, ABB , SCHNEIDER, HAGER, HAVELLS, STANDARD.
11. WIRE - HAVELLS, L&T, RR KABEL, FINOLEX, BCH, KEI
12. PVC CONDUIT - AVON PLAST, KUNDAN, FINOLEX.
13. SWITCH/ SOCKET -LEGRAND, SIEMENS, ANCHOR, HAVELLS, CRABTREE, ABB.
14. CABLES - HAVELLS, L&T, RR KABEL, FINOLEX, KALINGA, RELIANCE, NIICO, ELKAY.
15. FAN REGULATOR- LISA, ANCHOR, LEGRAND, RIDDER, ELLELUS.
16. LIGHTING- PHILIPS, BAJAJ, SURYA, HAVELLS, CROMPTON, GE, WIPRO.
17. FAN- ORIENT, HAVELLS, BAJAJ, CROMPTON, KHAITAN, USHA.
18. MCB DB - LEGRAND, SIEMENS, L&T, C&S, ABB , SCHNEIDER, HAGER, HAVELLS, STANDARD.
19. CERAMIC FITTINGS: HIND WARE, PARRY WARE, CERA
20. CP BATH FITTINGS: JUQUAR, HINDWARE, CERA
21. ALL OTHERS: BEST APPROVED AND REPUTED MAKE AND ISI MARKS (IF FALLS UNDER BIS CERTIFICATION CATEGORY)

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Note: Approval of BHEL engineer is to be obtained before procurement of materials specified above. The make of material mentioned if not available in the market or is not suiting the site conditions or the make of material is not mentioned in the above list, equivalent make may be used after the approval from BHEL engineer.

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CHAPTER –VI**TIME SCHEDULE****6.1 MOBILIZATION, TIME SCHEDULE, CONTRACT PERIOD****INITIAL MOBILIZATION**

After receipt of fax/email LOI, Contractor shall discuss with HOD/Civil –BHEL IVP regarding initial mobilization. Contractor shall mobilize necessary resources within 2 weeks of issue of fax / email letter of intent or as per the directive of HOD/Civil-BHEL IVP. However, BHEL Engineer will certify the actual date of start of work after adequate mobilization of materials, manpower and T&Ps by the contractor.

Scheduled date of start of work will be 15th Day from the date of fax/email LOI. Contractor's resources shall be progressively augmented to match the schedule of milestones /Construction.

6.2 COMMENCEMENT OF CONTRACT PERIOD AND TENTATIVE SCHEDULE

Entire work as detailed in tender specification shall be completed within 12 months from the scheduled date of start of work. Contractor has to mobilize adequate resources to meet completion target and to avoid cost and time over run.

Detailed Work completion Schedule will be submitted for approval by the successful bidder within 2 weeks of issue of LOI .

In case due to reasons not attributable to the contractor, the work gets delayed and scheduled completion gets extended, time extension will be accordingly granted by BHEL without any price variation.

The work under the scope of this contract is deemed to be completed in all respects, only when all the works are carried out as per satisfaction of BHEL. The decision of BHEL on completion date shall be final and binding on the contractor.

In order to meet above schedule in general, and any other intermediate targets set, to meet project schedule requirements, contractor shall arrange & augment all necessary resources from time to time on the instructions of BHEL.

6.3 CONTRACT PERIOD

The contract period for completion of entire work under scope from the “START OF CONTRACT PERIOD” as specified earlier shall be as follows:

- | | |
|--------------------------------|-----------|
| 1) COMPLETE CONSTRUCTION WORKS | 12 MONTHS |
|--------------------------------|-----------|

6.4 CONSEQUENCE OF DELAY

It may be noted that in the event delay in completion is attributable to the contractor BHEL may impose LD to the contractor as per General Conditions of Contract.

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CHAPTER –VII**OTHER TECHNICAL CONDITIONS OF CONTRACT**

1.0 The work shall be executed in a workman like manner and to the entire satisfaction of the Engineer and as per technical specification issued with tender, IS codes, CPWD specifications as applicable. In case of conflict, the decision of the BHEL Engineer shall be final & binding.

2.0 The BHEL Engineer will communicate or confirm his instructions to the Contractor in respect of the execution of the work in a "Work Site Order Book" maintained at his office and the Contractor shall visit this office daily and shall confirm receipt of such instructions by signing the relevant entries in this book. Such entries will rank as order or notices in writing within the intent and meaning of these conditions.

3.0 SETTING OUT

All the works shall be set out to the true lines, grades and elevation indicated on the drawing. The contractor shall be responsible to locate and set out the works. Only one grid reference line and bench mark shall be made available for setting out the works under the contract. This reference lines shall be used as datum for the works under the contract and the contractor has to establish for his work area at available points horizontal and vertical control points. The contractor shall inform BHEL well in advance of the times & places at which he wishes to do work in the area allotted to him so that suitable datum points established by him are checked by BHEL to enable the contractor to proceed with the works. Any work done without being properly located may be removed and / or dismantled by BHEL at contractor's expenses.

The contractor shall at his own expense take all proper and responsible precautions to preserve and maintain these datum marks to its true position. In the event of these marks being disturbed or obliterated by accident or due to any other cause whatsoever, the same may be deemed necessary placed by BHEL at contractor's expenses.

4.0 SITE DRAINAGE

All water including sub-soil water which may accumulate on the Site during the progress of the works or in trenches and excavations, including monsoon period shall be removed by the contractor from the Site to the satisfaction of the Engineer. It will also be responsibility of the contractor to de-water all the foundation pits, trenches with suitable de-watering methods like, pumping out, well point system etc. All such expenditure on de-watering shall be deemed to be included in quoted rates.

5.0 INSPECTION AND STAGE APPROVAL OF THE WORK

The owner or his duly authorised representative shall have at all reasonable times access to the contractor's premises or works and shall have the power to inspect drawings or any portion of the work, examine the materials and workmanship and shall have the authority to reject any work. This would be

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implemented through joint inspection by the representative of the owner and BHEL and in the form of joint protocols without any extra claims and loss of time and amount.

All work embracing more than one process shall be subject to examination and approval at each stage thereof and the Contractor shall give due notice in writing to the Engineer when each stage is ready. In default of such notice being received, the Engineer shall be entitled to approve the quality and extent thereof at any time he may choose and in the event of any dispute, the decision of the Engineer thereon shall be final and conclusive.

6.0 GREEN BUILDING CONSTRUCTIONS PROCEDURES AND NORMS

The proposed building is to be rated to achieve minimum 3 star rating for Green Building by GRIHA. The contractor through this Contract is bound to adopt all the criteria and norms of green building stipulated by GRIHA, as under:

- Criteria-1 utilities efficiently and plan on-site circulation efficiently.
- Criteria- 2 Preserve and protect landscape during construction.
- Criteria- 3 Soil conservation (till post construction).
- Criteria- 8 provides minimum level of sanitation/safety facilities for construction workers.
- Criteria- 9 reduce pollution during construction
- Criteria- 11 reduce the water use by building
- Criteria- 12 Efficient water use during construction
- Criteria- 15 Utilization of flyash if any in building structure
- Criteria- 16 reduce volume and weight and time of construction by adopting efficient technologies
- Criteria- 17 Use low energy material in interior
- Criteria- 18 Renewable energy utilization
- Criteria- 20 waste water treatment
- Criteria- 21 Water recycles and reuse
- Criteria- 22 Reduction in waste during construction
- Criteria- 23 Efficient waste segregation
- Criteria- 24 Storage & disposal of wastes
- Criteria- 25 Resource recovery from waste
- Criteria- 26 Use low-VOC paints/adhesives/sealants
- Criteria- 27 Minimize ozone depleting substance
- Criteria- 28 Ensure water quality
- Criteria- 29 Acceptable outdoor and indoor noise level
- Criteria- 30 tobacco smoke control
- Criteria- 31 provide at least the minimum level of accessibility for person with disabilities
- Criteria- 32 audit & validations
- Criteria- 33 Operation & maintenance

Efficiently minimise and plan utilization of water in construction.

Contractor shall utilise fly ash based materials as per design.

Reduce time, volume and weight of construction by adopting to use of efficient technology in construction like precast elements / Ready mix concrete.

Minimise on site wastages during construction.

Contractors shall take all precautions as to reduce noise levels during Construction.

Contractor shall take specific steps to control Smoke emission from site.

Contractors shall submit to BHEL / Architect the compliance document bills appraisal reports, When called for so.

The criteria listed above are just tentative; however, the contractor shall have to comply with all the necessary criteria as decided by GRIHA / Architect to achieve 3 to 4 star rating from GRIHA. Nothing extra will be paid to contractor to adopt GRIHA norms to achieve minimum 3 stars rating from GRIHA

7.0 UNCOVERING AND MAKING GOOD

The Contractor shall uncover any part of the Works and/or make openings in or through the same as the Engineer may from time to time direct for his verification and shall reinstate and make good such part to the satisfaction of the Engineer. If any such part has been covered up or put out of view after being approved by the Engineer and is subsequently found on uncovering to be executed in accordance with the Contract, the expenses of uncovering and / or making opening in or through, reinstating and making good the same shall be borne by BHEL. In any other case all such expenses shall be borne by the Contractor.

If neither drawing nor specification contain any mention of minor details of construction which in the opinion of the Engineer whose decision shall be final and conclusive, are reasonable and obviously and fairly intended for satisfactory completion of work, such details shall be provided by the contractor without any extra cost, as if they were specially mentioned and shall be deemed to be included in the scope.

8.0 NUISANCE

The Contractor shall not at any time do, cause or permit any nuisance on Site or do anything which shall cause unnecessary disturbance or inconvenience to owners, tenants or occupiers of other properties near the Site and to the public generally.

9.0 MATERIAL OBTAINED FROM EXCAVATION

Materials of any kind obtained from excavation on the Site shall remain the property of BHEL and shall be disposed of as the Engineer may direct, at no extra cost.

10.0 TREASURE , TROVE , FOSSILS etc.

All fossils, coins, articles of value or antiquity and structures and other remains or things of geological or archaeological interest discovered on the site shall be the absolute property of BHEL and the Contractor shall take reasonable precautions to prevent his workmen or any other person from removing or damaging any such article or thing, shall immediately upon discovery thereof and before removal acquaint the Engineer with such discovery and carryout the Engineer's directions as to the disposal of the same.

11.0 PROTECTION OF WORKS

Trees designated by the Engineer shall be protected from damage during the course of the Works and earth level within 1 meter of each such tree shall not be charged. Where necessary, such trees shall be

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protected by providing temporary fencing.

The contractor shall provide and maintain at his own expense all lights, guards, fencing and watching when and where necessary or required by the Engineer for the protection of the Works or for the safety and convenience of those employed on the Works or the public.

The contractor shall have total responsibility for protecting his works till it is finally taken over by the Engineer. No claim will be entertained by the Engineer for any damage or loss to the contractor's works and the contractor shall be responsible for the complete restoration of the damaged works to its original condition to comply with the specifications and drawings. Should any such damage to the contractor's works occur because of other party not under his supervision or control, the contractor shall make his claim directly with the party concerned. The contractor shall not cause any delay in the repair of such damaged works because of any delay in the resolution of such disputes. The contractor shall proceed to repair the work immediately and no cause thereof will be assigned pending resolution of such disputes.

12.0 PROTECTION OF EMBEDMENT'S ETC.

The contractor shall ensure proper protection to the satisfaction of the Engineer, of all bolts, inserts, embedment etc. from weather etc/ by greasing, rapping them with gunny bags or canvas or by any other means as directed by Engineer. Cost of such protections shall be deemed to be included in the rates quoted for the item.

13.0 CLEARANCE OF SITE AND REPAIRS.

Contractor has to clear the site / area where mechanical and electrical erection work is to be commenced / or in progress. The contractor shall remove construction materials and equipment lying in the vicinity and causing obstruction in the erection work within 24 hrs. notice. In case, he fails to clear the site, this will be done at his risk & cost by BHEL.

14.0 QUALITY ASSURANCE

The contractor has to establish / arrange at site the field testing facilities for testing of civil construction materials and concrete cubes for ensuring the proper quality, grade and strength of the materials used in the construction in line with approved field quality check list of material used etc. All testing shall be done as per IS code specifications/ BHEL's quality plan. If further test is required by the engineer to be carried from outside laboratory, the cost of the same shall be borne by the contractor.

15.0 COMPLETION OF WORK

The works shall be completed to the entire satisfaction of the Engineer and in accordance with the completion schedule as specified in the Contract, and all unused stores and materials, tools, plant, equipment, temporary buildings, site office, labour hutments and other things shall be removed and the site and work cleared of rubbish and all waste materials and delivered up clean and tidy to the satisfaction of the Engineer at the Contractor's expenses.

BHEL shall have power to take over from the Contractor from time to time such sections of the work as have been completed to the satisfaction of the Engineer. Such work however shall not be treated as have been completed until the extra works are executed to the satisfaction of Engineer. The Guarantee period shall commence only after handing over of the entire works.

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The Engineer shall certify to the contractor the date on which the work is completed and the date thereof defect liability Period (Maintenance Period begin).

16.0 Method of measurements

If not exclusively specified in the tender, shall be as per relevant IS Codes / CPWD Specifications.

17.0 The contractor shall comply with all provisions towards **Safety, Health, Environment and labor staff** as stipulated in special and general conditions of contract.

18.0 Water proofing for the terraces, under ground water tanks , sunken slabs etc, shall be got executed only through authorized applicator of the manufacturers and the guarantee for the same shall be in the name of BHEL For a period of 5 yrs after completion of work.

19.0 Plumbing and sanitary work to be executed by licensed plumber and the plumbing scheme / drawing to be got approved from statutory authorities through the appointed licensed plumber without any extra cost. The Contractor shall have to submit the valid license before starting the work.

20.0 The electrical work shall be executed only through licensed electrician and the contractor shall have to submit the valid license before starting the work.

21.0 DISCREPANCIES AND ADJUSTMENT OF ERRORS

The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawings and figures dimensions in preference to scale and special conditions in preference to general conditions.

In case of discrepancies between schedule of quantities, the specification and / or the drawings, the following order of preference shall be observed.

- (a) Description in schedule of quantities.
- (b) Technical conditions of Contract
- (c) Drawings

If there are varying or conflicting provisions made in any one document forming part of the contract, the Engineer- in - charge shall be the deciding authority with regard to the document.

Any error in description, quantity in schedule of quantities or any omission therefrom shall not vitiate the contract or release the contractor from the execution of the whole or any part of the works comprised therein according to the drawings and specifications or from any of his obligations under the contract.

22.0 SITE DOCUMENTS

The following site documents shall mainly be maintained by the contractor at site:

- Copy of contract documents and drawings.
- Computerized bill format.
- Site Order Book.
- Material testing registers/ Quality Inspection Reports.
- Measurement books on computerized format.
- Progress bar chart.

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- Sample approval register.
- Visitors register.
- Any other detail and specific requirement as deemed necessary.
- Hindrance Register
- Work Diary,
- Stage passing Register
- Registers as mentioned in special conditions of contract towards availability of labor and staff

23.0 SMOKE TESTS / WATER TESTS

The contractor shall be responsible for the smoke test for sewerage and manhole system, hydraulic pressure test for pipe line system, slope test for drain and sewage and other relevant tests applicable at different stages. All tests to be carried out for HVAC, Fire fighting works and other services as per specifications and established engineering practices.

The contractor shall submit the test reports of the tests conducted from a reputed laboratory, of the water for its quality / suitability for construction and curing before use in the works. It will be responsibility of contractor to arrange for inspection of such statutory authority for various clearances and comply with their observations if any.

CHAPTER –VIII

TECHNICAL REFERENCES

Due to the bulk content of technical specifications of work, which are adopted from CPWD specifications for civil and electrical works in Volume 1, Volume 2, are not being rewritten in this tender document. However, it is required from all Engineers and Contractors that Reference of these CPWD specifications and Governing IS codes, National Buildings codes and technical drawings issued by BHEL is to be taken as and when required during the construction. **The CPWD specifications are available on CPWD website and may also be had from Engineer in charge.**

Contractor shall abide for same. Price schedule is based on DSR 2012 therefore contractor should refer these specifications carefully and is supposed to have a knowledge of these specifications before quoting the rates .

CHAPTER –IX**TECHNICAL DRAWINGS**

Following drawings (total 15 Nos) are enclosed herewith to give the bidder a fair idea of constructions. These are preliminary drawings being issued for tender purpose only.

Drawings good for construction will be issued to the contractors during the course of work.

(THESE DRAWINGS ARE ENCLOSED IN SEPARATE ANNEXURES OF THIS TENDER DOCUMENT)

(1) CONCEPTS PLAN OF BUILDINGS

(2) ELEVATION OF BUILDINGS

(3) DETAIL AND LAYOUT OF ELECTRICAL WORKS INSTALLATION IN THE BUILDINGS

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ANNEXURE -VII

INTEGRITY PACT



INTEGRITY PACT



BHARAT HEAVY ELECTRICALS LIMITED
433, Industrial Complex, Industrial Valves Plant,
Goindwal Sahib, Dist. Tarn Taran (Punjab)
Registered Office: BHEL House, Siri Fort, New Delhi-110049

INTEGRITY PACT

Between

BHARAT HEAVY ELECTRICALS LIMITED (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi-110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

M/s
address.....
.....

Hereinafter referred to as "The Bidder/Contractor", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract for "Construction of new residential buildings in BHEL Township for BHEL IVP Goindwal Sahib, Punjab". The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with the Bidder(s)/Contractor(s).

In order to achieve these goals, the Principal will appoint Independent External Monitor(s) [IEM], who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:-
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of the contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain and advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2- Commitments of the Bidder(s)/Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 - 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employee involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
 - 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certification, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
 - 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC/ PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - 2.1.4 The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

Section 3 – Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process or take action as per the separate “Guidelines of Suspension of Business Dealings with Suppliers/Contractors” framed by the Principal.

Section 4 – Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder(s)/ Contractor(s) from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/Bid security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Gurantee, whichever is higher.

Section 5- Previous Transgression

- 5.1 The Bidder(s)/ Contractor(s) declares that no previous transgressions occurred in the last three years with any other company in any country conforming to the anti-corruption approach or with any other Public Section Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder(s)/ Contractor(s) make incorrect statement on this subject, he can be disqualified from te tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 – Equal treatment of all Bidder(s)/ Contractor(s)/Sub-Contractor(s)

- 6.1 The Bidder(s)/ Contractor(s) undertake(s) to demand from his sub-contractors a commitment consistent with this Integrity Pact. This commitment shall be taken only from those sub-contractors whose contract value is more than 20% of Bidder's/ Contractor's contract value with the Principal.
- 6.2 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 6.3 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

Section 7- Criminal Charges against violating Bidders/Contractors/Sub-Contractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 – Independent External Monitor(s) - IEM

- 8.1 The Principal has appointed competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement. Sh. J M Lyngdoh, IAS (Retd.) has been appointed as IEM for this contract. His address is as below:

Shri J. M. Lyngdoh , IAS (Retd.)
Plot No. 144-145,
Pragati Resort,
Proddator Village & P.O.,
Shankarpally Road,
Rangareddy Distt. (AP)- 500 033

- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor(s). The Bidder(s)/ Contractor(s) will grant the monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-Contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s)/Sub-Contractor(s) with confidentiality.
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- 8.5 As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or heal the situation, or to take other relevant action, The Monitor can in this regard submit non-binding recommendation. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- 8.6 The Monitor will submit a written report to the CMD, BHEL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and , should the occasion arise, submit proposals for correcting problematic situations.
- 8.7 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.8 If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant IPC/PC Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.9 The number of Independent External Monitor(s) shall be decided by the CMD, BHEL.
- 8.10 The word Monitor would include both singular and plural.

Section 9 – Pact Duration

- 9.1 This pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract and for all other Bidders 6 months after the contract has been awarded.
- 9.2 If any claim is made/lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/determined by the CMD, BHEL.

Section 10- Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be Distt. Tarn Taran (Punjab).
- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders/contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.

For & On behalf of the Principal
(Office Seal)

For & On behalf of the Bidder/Contractor
(Office Seal)

Place.....

Date.....

Witness:.....
Name & Address.....

Witness:.....
Name & Address.....