TENDER SPECIFICATION

NO: BHE/PW/PUR/KHZI-PNT/1246

EPOXY PAINT ON RCC PIPE RACK

AT

1X72 MW GTG BASED REVAMP PROJECT OF CPP AT KRIBHCO HAZIRA, GUJARAT

VOLUME- I-TECHNICAL BID

TENDER SPECIFICATIONS CONSISTS OF:

- **Notice Inviting Tender**
- **Volume 1 A - Technical Conditions of Contract**
- **Volume 1 B - Special conditions of Contract**
- **Volume 1 C - General conditions of Contract**
- **Volume 1 D - Forms & Procedures**

Bharat Heavy Electricals Limited
(*A Government of India Undertaking*)
Power Sector - Western Region
345-Kingsway, Nagpur-440001

CONTENTS			
Volume No	Description	Hosted in website bhel.com as files titled	No. of pages
NIL	Tender Specification Issue Details	(Part of **Vol-IA-1246**)	3
NIL	Notice Inviting Tender	(Part of **Vol-IA-1246**)	21
I-A	Technical Conditions of Contract	Vol-IA-1246	25
I-B	Special Conditions of Contract	Vol-IBCD-1246	47
I-C	General Conditions of Contract	(Part of **Vol-IBCD-1246**)	29
I-D	Forms & Procedures	(Part of **Vol-IBCD-1246**)	71
	Tender Drawings		
II	Price Bid Specification	Vol-II-1246	

T E N D E R S P E C I F I C A T I O N

NO: BHE/PW/PUR/KHZI-CVL/1246

EPOXY PAINT ON RCC PIPE RACK

AT

1X72 MW GTG BASED REVAMP PROJECT OF CPP AT KRIBHCO HAZIRA, GUJARAT

EARNEST MONEY DEPOSIT: Refer Notice Inviting Tender

LAST DATE FOR TENDER SUBMISSION: Refer Notice Inviting Tender

THESE TENDER SPECIFICATION DOCUMENTS CONTAINING VOLUME-I AND VOLUME- II ARE ISSUED TO:

M/s. ……

…….

PLEASE NOTE:
THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

For Bharat Heavy Electricals Limited

Addl. General Manager (Purchase)
Place: Nagpur
Date :

Rev 00
6th July
2010

NOTICE INVITING TENDER

Bharat Heavy Electricals Limited

Ref: BHE/PW/PUR/KHZI-PNT/1246 Date: 24/03/2014

NOTICE INVITING TENDER (NIT)

NOTE: BIDDER MAY DOWNLOAD FROM WEB SITES OR PURCHASE TENDERS FROM THIS OFFICE ALSO

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To

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.

1.0 Salient Features of NIT

SL NO	ISSUE	DESCRIPTION	
i	**TENDER NUMBER**	BHE/PW/PUR/KHZI-PNT/1246	
ii	**Broad Scope of job**	EPOXY PAINT ON RCC PIPE RACK AT 1X72 MW GTG BASED REVAMP PROJECT OF CPP AT KRIBHCO HAZIRA, GUJARAT.	
iii	**DETAILS OF TENDER DOCUMENT**		
a	Volume-IA	*Technical Conditions of Contract (TCC) consisting of Scope of work, Technical Specification, Drawings, Procedures, Bill of Quantities, Terms of payment, etc*	*Applicable*
b	Volume-IB	*Special Conditions of Contract (SCC)*	*Applicable*
c	Volume-IC	*General Conditions of Contract (GCC)*	*Applicable*
d	Volume-ID	*Forms and Procedures*	
e	Volume-II	*Price Schedule (Absolute value).*	*Applicable*
iv	**Issue of Tender Documents**	***1. Sale from BHEL PS Regional office at :*** ***Start : 24/03/2014 ,*** ***Closes: 28/03/2014 , Time : 16.00 Hrs*** **2. From BHEL website (www.bhel.com)** Tender documents will be available for downloading from website till due date of submission	*Applicable/ Not applicable*
v	**DUE DATE & TIME OF OFFER SUBMISSION**	***Date : 31/03/2014, Time 15.00 Hrs*** ***Place : BHEL PS Regional office at :Nagpur*** Tenders being submitted through representative shall be submitted at dispatch section of of PSWR HQ Office after making entry/registration at the reception. For any assistance on the matter kindly contact following officials: • Pratish Gee Varghese/Sr Engineer(Purchase • ShivkeshMeena / Engineer (Purchase)	*Applicable*
vi	**OPENING OF**	***1 hours after the latest due date and time of Offer***	*Applicable*

	TENDER	***submission*** *Notes:* *(1) In case the due date of opening of tender becomes a non-working day, then the due date & time of offer submission and opening of tenders get extended to the next working day.* *(2) Bidder may depute representative to witness the opening of tender*	
vii	**EMD AMOUNT**	*Rs1,00,000/- (Rupees One Lakhs Only)*	*Applicable*
viii	**COST OF TENDER**	*Rs 2000/-.*	*Applicable*
ix	**LAST DATE FOR SEEKING CLARIFICATION**	*Three days before the due date of offer submission. Along with soft version also, addressing to undersigned & to others as per contact address given below*	*Applicable*
x	**SCHEDULE OF Pre Bid Discussion (PBD)**	*Date :*	*Not applicable.*
xi	**INTEGRITY PACT & DETAILS OF INDEPENDENT EXTERNAL MONITOR (IEM)**		*Not Applicable*
xii	**Latest updates**	Latest updates on the important dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Errata, Modifications, Revisions, etcto Tender Specifications will be hosted in BHEL webpage (www.bhel.com -->Tender Notifications →View Corrigendums) **and not in the newspapers**. Bidders to keep themselves updated with all such information	

2.0 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, shall not be entertained.**

3.0 Unless specifically stated otherwise, bidder shall remit cost of tender and courier charges if applicable, in the form of Demand Draft drawn in favour of Bharat Heavy Electricals Ltd, payable at Power Sector Regional HQ at Nagpur 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 iv 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 Documents shall not take place on National Holidays, holidays declared by Central or State Governments and BHEL PS HQ at Nagpur, Sundays and second/ last Saturdays

4.0 Unless specifically stated otherwise, bidder shall deposit EMD through Demand Draft/Pay Order in favour of Bharat Heavy Electricals Ltd, payable at Nagpur. For other details and for 'One Time EMD' please refer General Conditions of Contract.

5.0 **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/COST of TENDER)' in two separate sealed and superscribed envelopes (ENVELOPE-I & ENVELOPE-II)
- PART-II (Price Bid) – in sealed and superscribed envelope (ENVELOPE-III)
- One set of tender documents shall be retained by the bidder for their reference

6.0 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	Remarks
	Part-I A	
	ENVELOPE – I superscribed as : PART-I (TECHNO COMMERCIAL BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION: **CONTAINING THE FOLLOWING**:-	
i.	Covering letter/Offer forwarding letter of Tenderer.	
ii.	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. i). In case of acceptance of the deviations, appropriate loading shall be done by BHEL ii). In case of unacceptable deviations, BHEL reserves the right to reject the tender	
iii.	Supporting documents/ annexure/ schedules/ drawing etc as required in line with Pre-Qualification criteria. 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.	
iv.	All Amendments/Correspondences/Corrigenda/Clarifications/Changes/ Errata etc pertinent to this NIT.	
v.	Integrity Pact Agreement (Duly signed by the authorized signatory)	If applicable
vi.	Duly filled-in annexures, formats etc as required under this Tender Specification/NIT	
vii.	Notice inviting Tender (NIT)	
viii.	Volume – I A : Technical Conditions of Contract (TCC) consisting of Scope of work, Technical Specification, Drawings, Procedures, Bill of Quantities, Terms of payment, etc	
ix.	Volume – I B : Special Conditions of Contract (SCC)	
x.	Volume – I C : General Conditions of Contract (GCC)	
xi.	Volume – I D : Forms & Procedures	
xii.	Volume – II (UNPRICED – without disclosing rates/price, but mentioning only 'QUOTED' or 'UNQUOTED' against each item	
xiii.	Any other details preferred by bidder with proper indexing.	

	PART-I B	
	ENVELOPE – II superscribed as: PART-I (EMD/COST of TENDER) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION:	

	CONTAINING THE FOLLOWING:-	
i.	1. Earnest Money Deposit (EMD) in the form as indicated in this Tender **OR** Documentary evidence for 'One Time EMD' with the Power Sector Region of BHEL floating the Tender 2. Cost of Tender (Demand Draft or copy of Cash Receipt as the case may be)	

	PART-II	
	PRICE BID consisting of the following shall be enclosed	
	ENVELOPE-III superscribed as: PART-II (PRICE BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION: **CONTAINING THE FOLLOWING**	
i	Covering letter/Offer forwarding letter of Tenderer enclosed in Part-I	
ii	Volume 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) superscribed as: TECHNO-COMMERCIAL BID, PRICE BID & EMD TENDER NO: NAME OF WORK: PROJECT: DUE DATE OF SUBMISSION: **CONTAINING THE FOLLOWING:**	
i	o Envelopes I o Envelopes II o Envelopes III	

SPECIAL NOTE :All documents/ annexures 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.

7.0 Deviation with respect to tender clauses and additional clauses/suggestions in Techno-commercial bid / Price bid shall NOT be considered by BHEL. Bidders are requested to positively comply with the same.

8.0 BHEL reserves the right to accept or reject any or all Offers without assigning any reasons thereof. BHEL also reserves the right to cancel the Tender wholly or partly without assigning any reason thereof. Also BHEL shall not entertain any correspondence from bidders in this matter (except for the refund of EMD).

9.0 Assessment of Capacity of Bidders: Void
~~Bidders capacity for executing the job under tender shall be assessed 'LOAD' wise and 'PERFORMANCE' wise as per the following:~~

I. **LOAD**: Load takes into consideration **ALL** the contracts of the Bidder under executionwith BHEL Regions, irrespective of whether they are similar to the tendered scope or not. The 'Load' is the sum of the unit wise identified packages (refer Table-1) for contracts with BHEL Regions. The cut off month for reckoning 'Load' shall be the month, two (2) months preceding the month corresponding to the 'latest date of bid submission', in the following manner:

(Note: For example if latest bid submission is in Aug 2011, then the 'load' shall be calculated upto and inclusive of June 2011)

i). Total number of Packages
Total number of Packages in hand = P
Where

- 'P'is the sum of all unit wise identified packages under execution with BHEL Regions as of the cut off month defined above, including packages yet to be commenced, excepting packages which are on HOLD due to reasons not attributable to Bidder..

II. **PERFORMANCE**: Here 'Monthly Performance' of the bidder for all the packages (**under execution**/ executed during the 'Period of Assessment' in all the Power Sector Regions of BHEL) **SIMILAR** to the packages covered under the tendered scope, excepting packages not commenced shall be taken into consideration. The 'Period of Assessment' shall be 6 months preceding the cut off month. The cut off month for reckoning 'Period of Assessment' shall be the month two (2) months preceding the month corresponding to the 'latest date of bid submission', in the following manner:

(Note: For example if 'latest date of bid submission' is in Aug 2011, then the 'performance' shall be assessed for a 6 month period upto and inclusive of June 2011, for all the unit wise identified packages (refer Table I)

i). Calculation of Overall 'Performance Rating' for 'similar Package/Packages' for the tendered scope under execution at Power Sector Regions for the 'Period of Assessment':
This shall be obtained by summing up the 'Monthly Performance Evaluation' scores obtained by the bidder in all Regions for all the similar Package/packages', divided by the total number of Package months for which evaluation should have been done, as per procedure below:

a) $P_1, P_2, P_3, P_4, P_5, \ldots P_N$ etc be the packages (**under execution**/ executed during the 'Period of Assessment' in all Regions) **SIMILAR** to the packages covered under the tendered scope, excepting packages not commenced. Total number of similar packages for all Regions = $\mathbf{P_T}$ (ie$P_T = P_1 + P_2 + P_3 + P_4 + .. P_N$)

b) Number of Months 'T_1' for which 'Monthly Performance Evaluation' as per relevant formats, should have been done in the 'Period of Assessment' for the corresponding similar package P_1. Similarly $T_2$for package P_2,$T_3$for package P_3, etc for the tendered scope. Now calculate cumulative total months '$\mathbf{T_T}$' for total similar Packages '$\mathbf{P_T}$' for all Regions (i.e$\mathbf{T_T} = T_1 + T_2 + T_3 + T_4 + .. T_N$)

c) Sum 'S_1' of 'Monthly Performance Evaluation' Scores ($S_{1\text{-}1}, S_{1\text{-}2}, S_{1\text{-}3}, S_{1\text{-}4}, S_{1\text{-}5}, \ldots S_{1\text{-}N}$) for similar package P_1, for the 'period of assessment' 'T_1' (i.e $S_1 = S_{1\text{-}1} + S_{1\text{-}2} + S_{1\text{-}3} + S_{1\text{-}4} + S_{1\text{-}5} + \ldots S_{1\text{-}N}$). Similarly S_2 for package P_2 for period T_2, S_3 for package P_3 for period T_3, etc for the tendered scope for all Regions. Now calculate cumulative sum 'S_T' of 'Monthly Performance Evaluation' Scores for total similar Packages '$\mathbf{P_T}$' for all Regions (i.e 'S_T'$= S_1 + S_2 + S_3 + S_4 + S_5 + \ldots S_N$.)

d) **Overall Performance Rating 'R_{BEHL}' for the similar Package/Packages (under execution**/ executed during the 'Period of Assessment') in all the Power Sector Regions of BHEL)**:**

~~Aggregate of Performance scores for all similar packages in all the Regions~~

~~= ----------~~

~~Aggregate of months for each of the similar package for which performance should have been evaluated in all the Regions~~

~~S_T~~

~~= -------~~

~~T_T~~

~~e) Bidders to note that the risk of non evaluation or non availability of the 'Monthly Performance Evaluation' reports as per relevant formats is to be borne by the Bidder~~

~~f) Table showing methodology for calculating 'a', 'b' and 'c' above~~

~~Sl no~~	~~Item Description~~	~~Details for all Regions~~							~~Total~~
~~(i)~~	~~(ii)~~	~~(iii)~~	~~(iv)~~	~~(v)~~	~~(vi)~~	~~(vii)~~	~~(viii)~~	~~(ix)~~	~~(x)~~
~~1~~	~~Similar Packages for all Regions →~~ ~~(under execution/ executed during period of assessment)~~	~~P_1~~	~~P_2~~	~~P_3~~	~~P_4~~	~~P_5~~	~~…~~	~~P_N~~	~~Total No of similar packages for all Regions = **P_T**~~ ~~ie Sum (Σ) of columns (iii) to (ix)~~
~~2~~	~~Number of Months for which 'Monthly Performance Evaluation' as per relevant formats should have been done in the 'period of assessment for corresponding similar Package (as in row 1)~~	~~T_1~~	~~T_2~~	~~T_3~~	~~T_4~~	~~T_5~~	~~…~~	~~T_N~~	~~Sum (Σ) of columns (iii) to (ix)~~ ~~**= T_T**~~
~~3~~	~~Monthly performance scores for the corresponding period (as in Row 2)~~	~~S_{1-1}, S_{1-2}, S_{1-3}, S_{1-4}, … S_{1-T1}~~	~~S_{2-1}, S_{2-2}, S_{2-3}, S_{2-4}, … S_{2-T2}~~	~~S_{3-1}, S_{3-2}, S_{3-3}, S_{3-4}, … S_{3-T3}~~	~~S_{4-1}, S_{4-2}, S_{4-3}, S_{4-4}, … S_{4-T4}~~	~~S_{5-1}, S_{5-2}, S_{5-3}, S_{5-4}, … S_{5-T5}~~	~~.. … … … …~~	~~S_{N-1}, S_{N-2}, S_{N-3}, S_{N-4}, … S_{N-TN}~~	~~---------~~
~~4~~	~~Sum of Monthly Performance scores of the corresponding Package for the corresponding period (as in row-3)~~	~~S_1~~	~~S_2~~	~~S_3~~	~~S_4~~	~~S_5~~	~~…~~	~~S_N~~	~~Sum (Σ) of columns (iii) to (ix)~~ ~~**= S_T**~~

~~ii) Calculation of Overall 'Performance Rating' (**R_{BHEL}**) in case 'similar Package/Packages' for the tendered scope ARE NOT AVAILABLE, during the 'Period of Assessment':~~

~~This shall be obtained by summing up the 'Monthly Performance Evaluation' scores obtained by the bidder in all Regions for ALL the packages, divided by the total number of Package months for which evaluation should have been done. 'R_{BHEL}' shall be calculated subject to availability of 'performance scores' for at least.6 'package months' in the order of precedence below:~~
~~a) 'Period of Assessment.~~

~~b) 12 months preceding the cut-off month~~
~~c) 24 months preceding the cut-off month~~
~~d) 36 months preceding the cut-off month~~
~~In case, R_{BHEL} cannot be calculated as above, then Bidder shall be treated as 'NEW VENDOR'. Further eligibility and qualification of this bidder shall be as per definition of 'NEW VENDOR' described in 'Explanatory Notes'~~

~~iii) Factor "L" assigned based on Overall Performance Rating (R_{BHEL}) at Power Sector Regions,:~~

~~Sl no~~	~~Overall Performance Rating (R_{BHEL})~~	~~Corresponding value of 'L'~~
~~1~~	~~=60~~	~~NA~~
~~2~~	~~>60 and ≤ 65~~	~~0.4~~
~~3~~	~~>65 and ≤ 70~~	~~0.35~~
~~4~~	~~> 70 and ≤ 75~~	~~0.25~~
~~5~~	~~> 75 and < 80~~	~~0.2~~
~~6~~	~~≥ 80~~	~~NA~~

~~**III. 'Assessment of Capacity of Bidder':**~~

~~'Assessment of Capacity of Bidder' is based on the Maximum number of packages for which a vendor is eligible, considering the performance scores of similar packages, as below:~~

~~Max number of packages P_{Max}= (R_{BHEL}- 60) divided by corresponding value of 'L'~~
~~i.e. (R_{BHEL}- 60)/L~~

~~Note:~~
~~i. In case the value of P_{Max} results in a fraction, the value of P_{Max} is to be rounded off to next whole number~~
~~ii. For R_{BHEL} = 60 , P_{Max} = '1'~~
~~iii. For R_{BHEL} ≥ 80, there will be no upper limit on P_{Max}~~

~~The Bidder shall be considered 'Qualified' as per 'Assessment of Capacity of Bidder' for the subject Tender if P ≤ P_{Max}~~
~~(where P is calculated as per clause 9.I)~~

~~IV. **Explanatory note**:~~

~~a) Similar package means Boiler or ESP or Piping or Turbine or Civil or Structure or Electrical or CI, etc at the individual level irrespective of rating of Plant, and irrespective of whether the subject tender is a single package or as part of combined/composite packages. Normally Boiler, ESP, Piping, Turbine, Electrical, CI, Civil, Structure, etc is considered individual level of package. For example in case the tendered scope is a Boiler Vertical Package comprising of Boiler, ESP and Power Cycle Piping (i.e the 'identified packages as per Table-1 below), the 'PERFORMANCE' part against sl no II above, needs to be evaluated considering all the identified packages (ie Boiler, ESP and Power Cycle Piping) and finally the Bidder's capacity to execute the tendered scope is assessed in line with III above~~
~~b) Identified Packages (Unit wise)~~
~~**Table-1**~~

	~~Civil~~	~~Electrical & CI~~	~~Mechanical~~
	~~i). Enabling works~~ ~~ii). Pile and Pile Caps~~ ~~iii). Civil Works including~~	~~i). Electrical~~ ~~ii). CI~~ ~~iii). Others (Elec& CI)~~	~~i). Boiler & Aux (All types including CW Piping if applicable)~~ ~~ii). Power Cycle Piping/Critical Piping~~

	~~foundations~~ ~~iv). Structural Steel Fabrication & Erection~~ ~~v). Chimney~~ ~~vi). Cooling Tower~~ ~~vii). Others (Civil)~~		~~iii). LP Piping~~ ~~iv). ESP~~ ~~v). Steam Turbine Generator set & Aux~~ ~~vi). Gas Turbine Generator set & Aux~~ ~~vii). Hydro Turbine Generator set & Aux~~ ~~viii). Turbo Blower (including Steam Turbine)~~ ~~ix). Material Handling~~ ~~x). Material Management~~ ~~xi). Material Handling & Material Management~~ ~~xii). Others (Mechanical)~~

~~c) Bidders who have not been evaluated for at least six package months in the last 36 months in the online BHEL system for contractor performance evaluation in BHEL PS Regions, wef July'2010 shall be considered "NEW VENDOR".~~

~~A 'NEW VENDOR' shall be considered qualified subject to satisfying all other tender conditions~~

~~A 'NEW VENDOR' if awarded a job (of package/packages identified under this clause) shall be tagged as "FIRST TIMER" on the date of first LOI from BHEL.~~

~~The "FIRST TIMER" tag shall remain till execution of work for a period of not less than 09 months, from the commencement of work of first package~~

~~A Bidder shall not be eligible for the next job as long as the Bidder is tagged as "FIRST TIMER" excepting for the Tenders which have been opened on or before the date of the bidder being tagged as 'FIRST TIMER'.~~

~~After removal of 'FIRST TIMER' tag, the Bidder shall be considered 'QUALIFIED' for the future tenders subject to satisfying all other tender conditions including 'Capacity Evaluation of Bidders'.~~

~~d) In the unlikely event of all bidders shortlisted against Technical and Financial Qualification criteria not meeting the criteria on 'Assessment of Capacity of Bidders' detailed above, OR leads to a single tender response on applying the criteria of 'Assessment of Capacity of Bidders' or due to non-approval by Customer, then BHEL at its discretion reserves the right to consider the further processing of the Tender based on the~~ **~~Overall Performance Rating~~ ~~'R_{BHEL}'~~** ~~only, starting from the upper band.~~

~~e) 'Under execution' shall mean works in progress as per the following:~~

~~i. up to Boiler Steam Blowing in case of Steam Generator and Auxiliaries~~

~~ii. uptoSynchronisation in case of all other works excepting sl no (i) and (iii)~~

~~iii. Upto execution of at least 90% of anticipated contract value in case of Civil & Structures (unit wise), Enabling works and upto 90% of material unloading (in tonnage) as per the original contract in case of MM Package.~~

~~Note : BHEL at its discretion can extend (or reduce in exceptional cases in line with Contract conditions) the period defined against (i), (ii) and (iii) above, depending upon the balance scope of work to be completed.~~

~~f) Performance evaluation in CL 9 above is applicable to Prime bidder and consortium partner (or Technical tie up partner) for their respective scope of work~~

10.0 Since the job 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, applicable wage structure, wage rules, 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.

11.0 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.

12.0 BHEL may decide holding of pre-bid discussion [PBD] with all intending bidders as per date indicated in the NIT. The bidder shall ensure participation for the same at the appointed time, date and place as may be decided by BHEL. Bidders shall plan their visit accordingly. The outcome of pre-bid discussion (PBD) shall also form part of tender.

13.0 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.

14.0 Unless specifically mentioned otherwise, bidder's quoted price shall deemed to be in compliance with tender including PBD.

15.0 Bidders shall submit Integrity Pact Agreement (Duly signed by authorized signatory who signs in the offer), **if applicable**, along with techno-commercial bid. This pact shall be considered as a preliminary qualification for further participation. **The names and other details of Independent External Monitor (IEM) for the subject tender is as given at point (1) above.**

16.0 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 satisfying the Pre Qualification Criteria specified in this NIT as per Annexure-I (as applicable), past performance etc. and date of opening of price bids shall be intimated to only such bidders. BHEL reserves the right not to consider offers of parties under HOLD.

17.0 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 authorised 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.

18.0 Validity of the offer shall be for **six months** from the latest due date of offer submission (including extension, if any) unless specified otherwise.

19.0 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. .

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.

20.0 On submission of offer, further consideration will be subject to compliance to tender & qualifying requirement and customer's acceptance, as applicable.

21.0 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.

22.0 The bidders shall not enter into any undisclosed M.O.U. or any understanding amongst themselves with respect to tender.

23.0 Consortium Bidding (or Technical Tie up) shall be allowed only if specified in Pre Qualifying Requirement (PQR) criteria, and in such a case the following shall be complied with:

23.1 Prime Bidder and Consortium Partner or partners are required to enter into a consortium agreement with a validity period of six months initially. In case the consortium is awarded the contract, then the Consortium Agreement between the Prime Bidder and Consortium Partner or partners shall be extended till contractual completion period including extension periods if any applicable.

23.2 'Stand alone' bidder cannot become a '**Prime Bidder' or a 'Consortium bidder' or 'Technical Tie up bidder' in a consortium (or Technical Tie up) bidding**. Prime bidder shall neither be a consortium partner to other prime bidder nor take any other consortium partners. However, consortium partner may enter into consortium agreement with other prime bidders. In case of non compliance, consortium bids of such Prime bidders will be rejected.

23.3 Number of partners for a consortium Bidding (or Technical Tie up) shall be as specified in the PQR

23.4 Prime Bidder shall be as specified in the Pre Qualification Requirement, else the bidder who has the major share of work

23.5 In order to be qualified for the tender, Prime Bidder and Consortium partner or partners shall satisfy (i) the Technical 'Pre Qualifying Requirements' specified for the respective package, (ii) "Assessment of Capacity of Bidder' as specified in clause 9.0

23.6 Prime Bidder shall comply with additional 'Technical' criteria of PQR as defined in 'Explanatory Notes for the PQR'

23.7 Prime Bidder shall comply with all other Pre Qualifying criteria for the Tender unless otherwise specified

23.8 In case customer approval is required, then Prime Bidder and Consortium Partner or partners shall have to be individually approved by Customer for being considered for the tender.

23.9 Prime Bidder shall be responsible for the overall execution of the contract

23.10 In case of award of job, Performance shall be evaluated for Prime Bidder and Consortium Partner or partners for their respective scope of work(s) as per prescribed formats

23.11 In case the Consortium partner or partners back out, their SDs shall be encashed by BHEL. In such a case, other consortium partner or partners meeting the PQR have to be engaged by the Prime Bidder, and if not, the respective work will be withdrawn and executed on risk and cost basis of the Prime Bidder. The new consortium partner or partners shall submit fresh SDs as applicable.

23.12 In case the prime Bidder withdraws, the whole contract shall be considered cancelled and short closed.

23.13 After execution of work, the work experience shall be assigned to the Prime Bidder and the consortium partner or partners for their respective scope of work. After successful execution of two similar works with the same consortium partner or partners under direct orders of BHEL, the Prime Bidder shall be eligible for becoming a 'stand alone' bidder for similar works, subject to certification from BHEL about the active involvement of the Prime Bidder for satisfactory execution of the works.

23.14 The consortium partner shall submit SD equivalent to 2% of the total contract value in addition to the SD to be submitted by the prime Bidder for the total contract value. In case there are two consortium partners, then each partner shall submit SD equivalent to 1% of the total contract value in addition to the SD to be submitted by the prime Bidder for the total contract value.

23.15 In case of a Technical Tie up, all the clauses applicable for the Consortium partner shall be applicable for the Technical Tie up partner also

24.0 The bidder shall submit documents in support of possession of 'Qualifying Requirements' dulyself certified and stamped by the authorized signatory, indexed and properly linked in the format for PQR. In case BHEL requires any other documents/proofs, these shall be submitted immediately.

25.0 The bidder may have to produce original document for verification if so decided by BHEL.

26.0 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
d. Technical Conditions of Contract (TCC)—Volume-1A
e. Special Conditions of Contract (SCC) —Volume-1B
f. General Conditions of Contract (GCC) —Volume-1C
g. Forms and Procedures —Volume-1D

It may please be noted that guidelines/rules in respect of suspension of business dealings', 'Vendor evaluation format', 'Quality, Safety & HSE guidelines', etc may undergo change from time to time and the latest one shall be followed

for BHARAT HEAVY ELECTRICALS LTD

AGM Pur

Enclosure
01.Annexure-1: Pre Qualifying criteria.
02. Annexure-2: Check List.
03. Annexure-3: Important Information.
04. Other Tender documents as per this NIT.

ANNEXURE - 1

PRE QUALIFYING CRITERIA

JOB	EPOXY PAINT ON RCC PIPE RACK AT 1X72 MW GTG BASED REVAMP PROJECT OF CPP AT KRIBHCO HAZIRA, GUJARAT
TENDER NO	BHE/PW/PUR/KHZI-PNT/1246

SL NO	PRE QUALIFICATION CRITERIA	Bidders claim in respect of fulfilling the PQR Criteria	
		Name and Description of qualifying criteria	Page no of supporting document. **Bidder must fill up this column as per applicability**
A	Submission of Integrity Pact duly signed (if applicable) (Note: To be submitted by Prime Bidder & Consortium/Technical Tie up partner jointly in case Consortium bidding is permitted, otherwise by the sole bidder)	**Not APPLICABLE**	
B	**Technical** Bidder must have successfully completed Civil/Architectural/Structural works of value not less than Rs. 40.00 Lakhs including application of painting works over Buildings/Stores/RCC Frame /Steel structure against single work order in last seven years as on latest date of offer submission.	**APPLICABLE**	
C-1	**Financial** **TURNOVER** Bidders must have achieved an average annual financial turnover (Audited) of **Rs 15 Lakhs** or more over last three Financial Years (FY) i.e. 2010-2011, 2011-12 & 2012-13	**APPLICABLE**	
C-2	**NETWORTH** (only in case of Companies) Net worth of the Bidder based on the latest Audited Accounts as furnished for 'C-1' above should be positive	**APPLICABLE**	
C-3	**PROFIT** Bidder must have earned cash profit in any one of the three Financial Years as applicable in the last three Financial Years defined in 'C-1 above based on latest Audited Accounts.	**APPLICABLE**	
D	Assessment of Capacity of Bidder to execute the work as per sl no 9 of NIT (if applicable)	**Not APPLICABLE**	By BHEL
E	Approval of Customer (if applicable) **Note:** Names of bidders (including consortium/Technical Tie up partners in case	**Not APPLICABLE**	BY BHEL

	consortium bidding is permitted) who stand qualified after compliance of criteria A to D shall be forwarded to customer for their approval.		
F	Price Bid Opening **Note:** Price Bids of only those bidders shall be opened who stand qualified after compliance of criteria A to E		BY BHEL
F	Technical Tie up criteria (if applicable)	**Not Applicable**	

Explanatory Notes for the PQR (unless otherwise specified in the PQR):

1. Bidder to submit Audited Balance Sheet and Profit and Loss Account for the respective years as indicated against C-1 above along with all annexures
2. In case audited Financial statements have not been submitted for all the three years as indicated against C-1 above, then the applicable audited statements submitted by the bidders against the requisite three years, will be averaged for three years i.e total divided by three.
3. C-2:-NETWORTH : Shall be calculated based on the latest Audited Accounts as furnished for C-1 above. Net worth = Paid up share capital + Reserves. (Net worth is required to be evaluated in case of companies)
4. C-3:- PROFIT : shall be NET profit (PAT + Non cash expenditure viz depreciation) earned during any one of the three financial years as in C-1 above
5. ~~'Additional' Criteria in respect of 'Technical' criteria of PQR (as in 'B' above) for Civil, Electrical, CI, unless otherwise specified :~~
   1. ~~Bidder should have executed similar work of any one of the following:~~
      - ~~a. One (1) work of value not less than Rs XXX~~
      - ~~OR~~
      - ~~b. Two (2) works of not less than Rs YYY~~
      - ~~OR~~
      - ~~c. Three (3) works of not less than Rs ZZZ~~
      - ~~(Value XXX, YYY, ZZZ shall be as indicated by BHEL~~
   2. ~~'Similar' work for criteria 5 above means~~
      - ~~a. Civil or Structures or Civil & Structures or Chimney respectively as applicable to the tendered scope in respect of 'CIVIL' Works~~
      - ~~b. Electrical works in respect of 'ELECTRICAL'~~
      - ~~c. CI works in respect of 'CI' Works~~
      - ~~d. Material Handling and/or Management works in respect of 'MM' works~~
6. Time period for achievement of the 'Technical' criteria of PQR (as in 'B' above) will be the last 7 years ending on the 'latest date' of Bid submission
7. 'EXECUTED' means the Vendor should have achieved the criteria specified in the Technical criteria of PQR (as in 'B' above) even if the Contract has not been completed or closed
8. Unless otherwise specified, for the purpose of 'Technical' criteria of PQR (as in 'B' above), the word 'EXECUTED' means:
   1. "BOILER LIGHT UP" in respect of Boiler & Aux and ESP
   2. "SYNCHRONISATION" in respect of STG/GTG and 'SPINNING' in case of HTG
   3. "STEAM BLOWING COMPLETION" in respect of at least Main Steam Line of Power Cycle Piping
   4. "HYDRAULIC TEST" of the system in respect of Structures, Pressure parts/IBR Piping
   5. "~~CHARGING" in respect of power Transformers, Bus ducts, HT/LT~~

	~~switchgears~~ ~~6. "Completion of RCC Shell and liner (steel or brick as per tendered scope) up to the HEIGHT specified using slip form" in case of RCC Chimney.~~ ~~7. Achievement of physical Quantities as per respective PQRs in respect of Civil & Structures and Piling Works~~ ~~8. 'Readiness for coal Filling" in respect of Bunker Structure Work.~~ ~~9. Boiler means HRSG or WHRB or any other types of Steam Generator~~ ~~10. Critical/Power Cycle piping means Main Steam, Hot Reheat, Cold Reheat, HP Bypass, LP Bypass lines~~ ~~11. For the purpose of evaluation of the PQR, one MW shall be considered equivalent to 3.5TPH where ever rating of HRSG/BOILER is mentioned in MW. Similarly, where ever rating of Gas Turbine is mentioned in terms of Frame size, ISO rating in terms of MW shall be considered for evaluation.~~ 12. ~~In case the experience/PO/WO certificate enclosed by bidders do not have separate break up prices for the E&C portion of Electrical and CI Works, (i.e. the certificates enclosed are for composite order for supply and erection of Electrical & CI and other works if any), then value of Erection and Commissioning for the Electrical & CI portion shall be considered as 15% of the supply & erection of Electrical & CI, unless otherwise specifically indicated in the PQR~~. ~~13. Scope for capital overhaul of STG shall cover Bearing Inspection work and overhauling of all cylinders of the Turbine unless otherwise specifically indicated in the PQR.~~ ~~14. In case the tendered scope is not a Pulverised Fuel Boiler, experience of Oil/Gas Fired Boilers also can be considered unless otherwise specifically indicated in the PQR~~ 15. The value of work (Experience submitted against PQR B) shall be updated as per the PVC indices for "All India Avg. Consumer Price Index for Industrial Workers" with base month as date of execution (completion of contract/work) and indexed upto two months prior to bid opening month.

BIDDER SHALL SUBMIT ABOVE PRE-QUALIFICATION CRITERIA FORMAT, DULY FILLED-IN, SPECIFYING RESPECTIVE ANNEXURE NUMBER AGAINST EACH CRITERIA AND FURNISH RELEVANT DOCUMENT IN THE RESPECTIVE ANNEXURES IN THEIR OFFER.

ANNEXURE - 2

CHECK LIST

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

1	Name and Address of the Tenderer			
2	Details about type of the Firm/Company			
3.a	Details of Contact person for this Tender	Name : Mr/Ms Designation: Telephone No: Mobile No: Email ID: Fax No:		
3.b	Details of alternate Contact person for this Tender	Name : Mr/Ms Designation: Telephone No: Mobile No: Email ID: Fax No:		
4	EMD DETAILS	DD No: Date : Bank : Amount: Please tick (√) whichever applicable:- ONE TIME EMD / ONLY FOR THIS TENDER		
5	Validity of Offer	TO BE VALID FOR SIX MONTHS FROM DUE DATE		
			APPLICABILITY(BY BHEL)	ENCLOSED BY BIDDER
6	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
7	Audited profit and Loss Account for the last three years		Applicable/~~Not Applicable~~	YES/NO
8	Copy of PAN Card		Applicable/~~Not Applicable~~	YES/NO
9	Whether all pages of the Tender documents including annexures, appendices etc are read understood and signed		Applicable/~~Not Applicable~~	YES/NO
10	Integrity Pact		Applicable	NO
11	Declaration by Authorised Signatory		Applicable/~~Not Applicable~~	YES/NO
12	No Deviation Certificate		Applicable/~~Not Applicable~~	YES/NO
13	Declaration confirming knowledge about Site Conditions		Applicable/~~Not Applicable~~	YES/NO
14	Declaration for relation in BHEL		Applicable/~~Not Applicable~~	YES/NO

15	Non Disclosure Certificate	Applicable/~~Not Applicable~~	YES/NO
16	Bank Account Details for E-Payment	Applicable/~~Not Applicable~~	YES/NO
17	Capacity Evaluation of Bidder for current Tender	Applicable/~~Not Applicable~~	YES/NO
18	Tie Ups/Consortium Agreement are submitted as per format	~~Applicable~~/Not Applicable	YES/NO
19	Power of Attorney for Submission of Tender/Signing Contract Agreement	Applicable/~~Not Applicable~~	YES/NO
20	Analysis of Unit rates	Applicable/~~Not Applicable~~	YES/NO

NOTE : STRIKE OFF 'YES' OR 'NO', AS APPLICABLE. TENDER NOT ACCOMPANIED BY THE PRESCRIBED **ABOVE APPLICABLE DOCUMENTS** ARE LIABLE TO BE SUMMARILY REJECTED.

DATE :

AUTHORISED SIGNATORY
(With Name, Designation and Company seal)

Anenexure-3

IMPORTANT INFORMATION

1. **The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site (www.bhel.com---> Tender Notification -→ List of Banned Firms)**

2. **All Statutory Requirements as applicable for this project shall be complied with.**

3. **Please take note of following Revised Tender Clauses:**

   i. Notice Inviting Tender: Sl No 9

   ii. General conditions of Contract: Clause No 1.15.13 (New), Clause No 2.8.3, 2.8.4 and 2.8.5

4. Following Notes are added to Form F- 15 of Volume I D 'Forms & procedures'

   i. It is only indicative and shall be as per the online format issued by BHEL time to time.
   ii. No request will be entertained after specified date of the current month w.r.t the changes requested in the scores of immediate previous month.

5. **PRICE VARIATION CLAUSE**

   Price Variation Compensation Clause no. 2.17 of Vol I C GCC shall not be Applicable:

6. **OVER RUN COMPENSATION**

   Over Run Compensation Clause no. 2.12 of Vol I C GCC shall not be Applicable

7. **Broad Terms & Conditions of Reverse Auction**

   In continuation to Clause 19.0 of NIT (Notice Inviting Tender) following are the broad terms and conditions of Reverse Auction is given in Annexure V of NIT:

   7.1. Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).
   7.2. BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids. In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the

Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit „online sealed bid‟ in the Reverse Auction. Non-submission of „online sealed bid‟ by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

7.3. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.

7.4. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit ‘online sealed bid’ in the Reverse Auction. Non-submission of ‘online sealed bid’ by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

7.5. 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.

7.6. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.

7.7. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.

7.8. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.

7.9. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for noncompliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.

7.10. Reverse auction will be conducted on scheduled date & time.

7.11. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.

7.12. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.

7.13. 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.

7.14. Bidders shall be required to read the “Terms and Conditions” section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the “Business Rules of Reverse Auction‟, which will be communicated before the Reverse Auction.

7.15. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.

7.16. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.

7.17. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

Rev 00
6th
JULY

TECHNICAL CONDITIONS OF CONTRACT (TCC)

BHARAT HEAVY ELECTRICALS LIMITED

CHNICAL CONDITIONS OF CONTRACT (TCC)
CONTENT

Sl No	DESCRIPTION	Chapter	No. OF PAGES
Volume-IA	**Part-I: Contract specific details**		
1	Project Information	Chapter-I	2
2	Scope of Worksand Technical Specifications	Chapter-II	6
3	Facilities in the scope of Contractor/BHEL (Scope Matrix)	Chapter-III	4
4	T&Ps and MMEs to be deployed by Contractor	Chapter-IV	1
5	T&Ps and MMEs to be deployed by BHEL on sharing basis	Chapter-V	1
6	Time Schedule	Chapter-VI	1
7	Terms of Payment	Chapter-VII	1
8	Taxes and other Duties	Chapter-VIII	2
9	Tender Drawings	Chapter-IX	1
10	Appendix	Chapter-X	1

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – I: Project Information

1.0	**Project Information**
1.1	**INTROUCTION** **KRIBHCO** is operating a mega Fertilizer Complex at Hazira, District Surat, in the State ofGujarat, India. The fertilizer complex comprises of two streams of Ammonia plants of 1520MT/day capacity each and four Urea streams of 1310 MT/day each. KRIBHCO has undertaken a major revamp project of Ammonia & Urea plants for capacityenhancement. The project is under implementation and has been scheduled to becompleted by Dec. 2011. Present requirement of Power & HP steam by the fertilizercomplex is 24MW and 260 MT/hr respectively. On completion of this revamp project, surplus HP steam will be generated in the Ammoniaplants which will be exported to Urea plants. Under this scenario HP steam requirementfrom the SGPG plant shall reduce to 174 MT/hr from present level of 260 MT/hr. The powerrequirement of the complex however shall increase to 37 MW from present requirement of24 MW. Thus the CPP (i.e. Steam and Power Generation plant), after revamp of fertilizerplant needs to produce 174 MT/hr HP steam and 37 MW power for in-house consumption. Beside this, the surplus power generated from CPP shall be exported to outside consumersthrough state / central grid. BHEL has been awarded Project Management, System Design, Detailed Engineering, Manufacturing, Procurement, Civil Works, Supply, Fabrication, Inspection, Transportation, Storage, Installation, Comprehensive MCE Insurance, Testing, Mechanical Completion, Pre-commissioning, Commissioning and performance Guarantee test runs of 1xFr 6 FA GTG + 1x190 TPH HRSG based Cogen CPP . **Site information** a) Location KRIBHCO Hazira PO – KRIBHCO Nagar Dist:Surat State : Gujrat b) Nearest Railway Station Surat 20 Kms from project site (Gujarat) c) Nearest Airport Surat (Gujarat)

1.2 **CLIMATIC CONDITIONS**

1. **Seismic data**

   a) Seismic Intensity Acc to BIS- 1893 (1975)
   b) Zone III
   c) Importance Factor 1.75

2. **Ambient Air Temperature**

Design ambient dry bulb temperature 35° C

3. **Relative Humidity** 65% (Average)

4. **Barometric pressure** 1005 mbar (Average)

1014mbar(Maximum)

5 Rain fall

a) Average in a month 325 mm
b) Heaviest in a day 270 mm
c) Maximum in one hour 100 mm

6 Wind data:

a) Wind code IS-875-1964
b) Base wind pressure: 150 KG/M^2
c) Wind load Upto 30 M: 150 kg/m^2

The bidder is advised to visit and examine the site of WORKS and its surroundings and obtain for himself on his own responsibility all information that may be necessary for preparing the bid and entering into the CONTRACT. All costs for and associated with site visits shall be borne by the bidder.

2.0 SCOPE OF WORK

Providing and applying ready made Epoxy Paint over RCC Pipe Rack with suitable pigments of approved shade and as per manufacturer's recommendation for the paint system, exposed to moderately to severe corrosive condition. The epoxy paint shall be a two pack material and shall be resistant to water, splash, spillage & acidic environment. The epoxy paint coating shall be of two coat each minimum 75 micron thickness over a coat of epoxy primer of minimum 75 micron including all labour, material, equipment, surface prepration, scaffolding at all heights, etc at any level as per specification, drawing and as directed by engineer-in-charge.

Before commencing painting, the Contractor shall obtain the approval of theEngineer in writing regarding the schedule of work to minimize damage;disfiguration or staining to work of other trades or other installations.

2.1 MATERIALS

Materials shall be highest grade products or well-known approved manufacture and shall be delivered to the site in original sealed containers, bearing brand name, manufacturer's name and colour shade, with labels intact and seals unbroken. All materials shall be subject to inspection, analysis and approved by the Engineer. It is desired that materials of one manufacturer only shall be used as far as possible and paint of one shade is obtained from the same manufacturing batch. Each and every supply of primer, finish paint etc. shall be accompanied by manufacturer’s test certificate. All paint shall be subject to analysis from random samples taken at site from painter’s bucket, if so desired by the Engineer.

All prime coats shall be compatible to the material of the surface to be finished as well as to the finished coats to be applied.

All colours shall be as per painting schedule and tinting and matching shall be done to the satisfaction of the Engineer. In such cases, where samples are required, they shall be executed in advance with the specified materials for the approval of the Engineer.

The epoxy paint shall be a two pack material and shall be resistant to water, splash, spillage & acidic environment.

2.2 STORAGE

The Contractor shall arrange for safe and proper storage of all materials andtools. The storage space if allotted within the building shall be adequatelyprotected from damage, disfigurement, & stains. Paint shall be kept covered atall times and mixing shall be done in suitable containers. All necessaryprecautions shall be taken by the contractor to prevent fire.

2.3 APPLICATION

2.3.1 GENERAL

The method of application shall be as recommended by the manufacturer. Incase of selection of special shades and colour (not available in standard shades)the Contractor shall mix different shades and prepare test panels of minimumsize 1 meter square as per instruction of the Engineer and obtain his approvalprior of application of finishing paints.

Proper tools and implements shall be used. Scaffoldings used shall beindependent of the surface to be painted to avoid shade differences of thefreshly repaired anchor notes.

Painting shall be done by skilled labours in a workmanlike manner. Allmaterials shall be evenly applied so as to free of sags, runs, crawls, or otherdefects. All coats shall be of proper consistency. In case of application bybrush, no brush marks shall be visible. The brushes shall be clean and in goodcondition before application of paint.

All priming undercoat for painting shall be applied by brush only, and rollersspray equipments etc. shall not be used.

No work shall be done under conditions that are unsuitable production of goodresults. Application of paint, which seals the surfaces to moisture shall only be doneafter the moisture on and below the surface has dried out.

All coats shall be thoroughly dry before succeeding coat is applied. Coats ofpainting as specified are intended to cover surfaces perfectly. In case thesurface is not covered property by applying the specified number of coats,further coats shall be applied by the Contractor when so desired by theEngineer.

All primers and undercoats shall be tinted to approximate the colour of thefinishing coats. Finished coats shall be of exact colour and shade as perapproved samples and all finish shall be uniform in colour and texture. Allparts of mouldings and ornaments shall be left clean and true to finish.

2.3.2 SURFACE PREPRATION

Before starting the work the Contractor shall obtain the approval of theEngineer regarding the soundness & readiness of the surface to be painted on.
Surface shall be free from all oil, grease, efflorescence, mildew, loose paint, orother foreign and loose materials. Any honeycomb / cracks shall be cleaned out andpatch filled with mortar similar to the original surface and uniformly textured.Where this type of resurfacing may lead to the finishing paint being different inshade from, the original surfaces, the resurfaces area shall be treated withminimum one coat of cement primer, which should be continued to the

surrounding area for a distance of minimum 100 mm.Surface with Mildew or Efflorescence shall be treated as below:

All mildewed surfaces shall be treated with an approved fungicide such asammoniacal wash consisting of 7g of copper carbonate dissolved in 80ml liquorammonia and diluted to water, or 2.5 percent magnesium silicofluoride solutionand allowed to dry thoroughly before paint is applied.

2.3.3 EPOXY PAINT

For Epoxypaint, system shall be used. Manufacturer's recommendation for the paint system, exposed to moderately to severe corrosivecondition and subject to acid/alkali spillage & fumes, shall be followed.

2.4 PROTECTION

Furniture and other movable objects, equipment, fittings and accessories shallbe moved, protected and replaced upon completion of work. All stationaryequipment shall be well covered so that no paint can fall on them. Workfinished by other agencies shall be well protected. All protections shall be doneas per instructions of the Engineer.

2.5 CLEANING UP

In addition to provisions in general conditions the Contractor shall, uponcompletion of painting etc. remove all marks and make good surfaces, wherepaint has been splashed or splattered, including all equipment, fixtures, glass,furniture, fittings etc. to the satisfaction of the Engineer.

2.6ALSO INCLUDED IN THE SCOPE

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

1) Furnishing all labour, materials, supervision, painting plans, equipment,supplies, transport to and from the site, fuel, electricity, compressed air, water, transit and storage insurance and all other incidental items and temporary works notshown on specified but reasonably implied or necessary for the proper completion,maintenance and handling over the works, except in accordance with thestipulations laid down in the contract documents and additional stipulations as maybe provide by the engineer during the course of works.
2) Giving all notices, paying all fees, taxes etc., in accordance with the generalconditions of contract, that is required for all works including temporary works.
3) Arranging manufacturer’s supervision for items of work done as permanufacturer’s specifications when so specified.

4) 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 materialused.
5) Providing all incidental items not shown or specified but reasonably implied ornecessary for the successful completion of the work in accordance with contract.
6) Arranging for joint checking (with BHEL/BHEL's Customer/Consultant) of each coat of paint, Preparation of joint protocols and maintaining quality recordsfor audit/inspection.

2.7WORKS BY OTHERS

No work under the specification will be provided by any agency other than the contractorunless specifically mentioned elsewhere in the contract.

2.8PREAMBLE FOR THE SCHEDULE OF QUANTITIES/BOQ.

1) Details of the items in this Schedule shall be read in conjunction with the CorrespondingKRIBHCO specifications, drawings and other documents and shall haveprecedence over any contrary statement mentioned anywhere in this document.
2) The work shall be carried out as per construction drawings, specifications, thedescription of the items in this schedule and/or Engineer's instructions,Drawingsenclosed with these documents are only indicative giving some idea of the type ofwork involved. The layout, sizes and details of the RCC Pipe Rack shown in tender drawings may vary to some extent during actualwork. Final drawings will be issued during the execution of thework.
3) Items of work provided in this schedule but not covered in the specifications shallbe executed strictly as per instructions of the Engineer.
4) Unless specifically mentioned otherwise in the contract, the bidder shall quote hisrates for the finished items and shall provide for the complete cost towards fuel,tools, tackle, equipment, temporary works, labour materials,levies , taxes , transport, layout, repairs, rectification, maintenance till handing over,supervision, shops, establishments, services, temporary roads, revenue expenses,contingencies, overheads, profits and all incidental items not specifically mentioned butreasonably implied and necessary to complete the works according to the contract.
5) Rates shall be quoted both in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellation should be counter signed by thebidder. In case of illegibility, the interpretation of the engineer shall be final. Allentries shall be in English language.
6) Engineers decision shall be final and binding on the contractors regarding clarificationof items in this schedule with respect to the other section of the contract.
7) Incase of any discrepancy between item description, relevant drawing and/or specification Clarification shall be sought at tender stage itself. Otherwise it shall be assumed that thebidder has quoted for the more stringent requirement.

2.9HIERARCHY

In case of any conflict/deviations amongst various documents, the order of precedence shallbe as follows

1) Statutory Regulations
2) KRIBCO specification
3) Items in Schedule of quantities
4) IS/BS standards
5) BHEL's standard specification (with prior approval of Engineer-in-charge).

2.10 Construction Power & Water:

2.10.1 CONSTRUCTION POWER: Shall be provided Free of cost.

1. Construction power (three phase, 415 V/ 440 V) will be provided at one point near the site at a distance of approx. 500M.**The electricity shall be provided on free of cost basis**. Further distribution shall be arranged by the contractor at his own cost. Contractor shall be responsible for fulfillment of all requirements including statutory requirements in this regard. Contractor shall deploy and install required energy meter, cables, fuses, distribution boards, switchboards, bus bars, earthing arrangements, protection devices and any other installation as specified by statutory authority/act. Contractor shall also obtain approvals of appropriate authority and pay necessary fees, levies etc towards the clearance of such installations, prior to use. Sufficient power factor compensation equipments like capacitor shall be provided by contractor for reactive loads like welding machines etc. In case of any fine/penalty on account of low power factor, same shall be shared by contractor proportionately according to power consumption.

2. Contractor shall make necessary arrangements for onward distribution of construction power taking due care of surrounding construction activities like movement of cranes & vehicles, civil work, fabrication/construction/assembly/ erection etc and safety of personnel. It may become necessary to relocate some of the installations to facilitate work by other agencies or by him.

3. It shall be the responsibility of the Contractor to provide, maintain the complete installation on the load side of the supply with due regard to the safety requirements at site. All cabling and installations shall comply in all respects with the appropriate statutory requirements. The installation and maintenance of this shall be done by licensed and experienced electrician.

4. While reasonable efforts will be made to ensure continuous electric power supply, interruptions cannot be ruled out and no claim from the Contractor shall be entertained on this account such as idle labor, extension of time etc. The Contractor shall adjust his working shift accordingly and deploy additional manpower, if necessary, so as to achieve the target.

5. Contractor shall be well equipped with back-up power supply arrangement like DG set and diesel operated welding machine etc to tackle situations arising due to failure of supplied power, so as to ensure continuity and completion of critical processes that are underway at the time of power failure or important activities planned in immediate future.

6. BHEL is not responsible for any loss or damage to the Contractor's equipment as a result of variations in voltage or frequency or interruptions in power supply.

7. **Contractor to note that till construction power is made available by BHEL/KRIBHCO, contractor shall make his own arrangement like DG set etc. The contractor shall also take the approval/ permission of GujaratState statutory authorities for his DG set installation.**

8. Though construction power is free, Contractor is advised to maintain the calibrated energy measuring instruments and use their system as efficiently as possible to maintain the HT side input energy meter reading and LT side outgoing energy meter reading to sub-contractors as equal.

1) Any taxes, duties, levies, cessetc as being charged/ levied by Kribhco/ state statutory authority shall be passed on to the sub-contractors proportionately in the respective calendar month bill.

2.10.2 Construction and Potable water shall be made available free of cost at a single point within battery limitwhich is to be further distributed by contractor. No additional payment shall be made on account of this.

Bidders are requested to specifically note the following:

*Bidders are requested to have **pre-bid visit/ inspection of site** to make them fully acquainted with the site situation & nature of job. No claim shall be entertained at later date on account of non-familiarization of site condition. Bidders may fix up their site visit in consultation with construction manager BHEL site office KRIBHCO, HAZIRA. Name, address & contact point of site is as below:*

SHRI ARUN KUMAR
BHEL SITE OFFICE – KRIBHCO HAZIRA
SURAT, GUJARAT.

E-MAIL ID:arn@bhelpswr.co.in
Mob. No: 09412074701

Sl.No	Description	Scope / to be taken care by		Remarks
		BHEL	Bidder	
3.1.0	***ESTABLISHMENT***			
3.1.1	***FOR CONSTRUCTION PURPOSE:***			
a	Open space for office (as per availability)	Yes		Location will be finalized after joint survey with owner
b	Construction of bidder's office, canteen and storage building including supply of materials and other services		Yes	
c	Bidder's all office equipments, office / store / canteen consumables		Yes	
d	Canteen facilities for the bidder's staff, supervisors and engineers etc		Yes	
e	Fire fightingequipments like buckets, extinguishers etc		Yes	
f	Fencing of storage area, office, canteen etc of the bidder		Yes	
3.1.2	***FOR LIVING PURPOSES OF THE BIDDER***			
a	Open space for labour colony (as per availability)		Yes	Contractor has to make his own arrangements for space, shelter and transportation of labours as per their requirement.
b	Labour Colony with internal roads, sanitation, complying with statutory requirements		Yes	
3.2.0	***ELECTRICITY***			
3.2.1	***Electricity for construction purposes3 Phase*** *415/440 V* ***(To be specified whether chargeable or free)***			
a	Single point source	Yes		Shall be provided by BHEL/KRIBCO free of cost. Pl. refers clause no. 2.10.1 in this regard.
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	

Sl.No	Description	Scope / to be taken care by		Remarks
		BHEL	Bidder	
c	Duties and deposits including statutory clearances if applicable		Yes	
3.2.2	***Electricity for the office, stores, canteen etc of the bidder.***			
a	Single point source	**Yes**		
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
c	Duties and deposits including statutory clearances if applicable		Yes	
3.2.3	***Electricity for living accommodation of the bidder's staff, engineers, supervisors etc***		Yes	Contractor has to make his own arrangement.
a	Single point source		Yes	
b	Further distribution including all materials, Energy Meter, Protection devices and its service		Yes	
c	Duties and deposits including statutory clearances if applicable		Yes	
3.3.0	***WATER SUPPLY***			
3.3.1	***For construction purposes:(to be specified whether chargeable or free)***			
a	Making the water available at single point	**Yes**		Shall be provided by BHEL/KRIBCO free of cost.
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.2	***Water supply for bidder's office, stores, canteenetc***			
a	Making the water available at single point	Yes		

Sl.No	Description	Scope / to be taken care by		Remarks
		BHEL	Bidder	
b	Further distribution as per the requirement of work including supply of materials and execution		Yes	
3.3.3	***Water supply for Living Purpose***			Contractor has to make his own arrangement.
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	
3.4.0	***LIGHTING***			
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	Contractor has to make his own arrangement.
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	Contractor has to make his own arrangement.
c	Providing the necessary consumables like bulbs, switches, etc during the course of project work		Yes	Contractor has to make his own arrangement.
d	Lighting for the living purposes of the bidder at the colony / quarters		Yes	
3.5.0	***COMMUNICATION FACILITIES FOR SITE OPERATIONS OF THE BIDDER***			
a	Téléphone, fax, internet, intranet, e-mail etc		Yes	
3.6.0	***COMPRESSED AIR wherever required for the work***		Yes	
3.7.0	***Demobilization of all the above facilities***		**YES**	

Sl.No	Description	Scope / to be taken care by		*Remarks*
		BHEL	**Bidder**	
3.8.0	***TRANSPORTATION***			
a	For site personnel of the bidder		Yes	
b	For bidder's equipments and consumables (T&P, Consumables etc)		Yes	

A: TOOL & PLANTS

1.CONTRACTOR IS REQUIRED TO PROVIDE ALL NECESSARY TOOLS AND PLANTS, MEASURING INSTRUMENTS (ELCOMETER ETC) AND HANDLING EQUIPMENTS FOR THIS SCOPE OF WORK. BHEL IS NOT PROVIDING ANY T & P FOR THIS WORK.

2. THE CONTRACTOR SHALL PROVIDE ALL THE NECESSARY SCAFFOLDING MATERIALS, TEMPORARY STRUCTURES AND NECESSARY SAFETY DEVICES ETC, DURING EXECUTION OF THE WORK.

3.TIMELY DEPLOYMENT OF ADEQUATE QUANTITY OF T&P IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE PREPARED TO AUGMENT THE T&P AT SHORT NOTICE TO MATCH THE PLANNED PROGRAMME AND TO ACHIEVE THE MILESTONES.

BHEL WILL NOT PROVIDE ANY T & P

4.1 TIME SCHEDULE & MOBILIZATION

4.1.1 INITIAL MOBILIZATION AND TENTATIVE SCHEDULE

Contractor shall reach site, make his site establishment and be ready to commence the work **within one week from the date of fax Letter of Intent** or as per directions of Construction Manager/ Project Manager of BHEL.

The contractor has to subsequently augment his resources in such a manner that the entire works are completed within the contract period of **2 (Two) months** in a manner required by BHEL to match with the project schedule.

Note:

- **Bidders are requested to submit Resource deployment plan with detail program in line with above schedule in the form of Bar Chart / MS project planer along with their offer.**

4.1.2

IN ORDER TO MEET ABOVE SCHEDULE TO MEET CUSTOMER REQUIREMENTS/PROJECT SCHEDULE, CONTRACTOR SHALL ARRANGE ALL NECESSARY RESOURCES AND WORK FORCE IN CONSULTATION WITH BHEL ENGINEER AT SITE TO UNDERTAKE WORKS CONCURRENTLY IN ALL POSSIBLE FRONTS AS MADE AVAILABLE TO CONTRACTOR.

CONTRACTOR SHALL NOTE THAT INDIVIDUAL MILESTONES AS ABOVE SHALL BE ACHIEVED AS PER SCHEDULE FURNISHED ABOVE. THE DATE OF START AS END OF ONE WEEKAFTER THE DATE OF FAX LETTER OF INTENT SHALL BE RECKONED THE START OF CONTRACT PERIOD FOR THIS PURPOSE.

7.00 TERMS OF PAYMENT

7.0.1 PROGRESSIVE PAYMENT FOR PAINTING WORK.

The RA bill payment shall be made as per Cl no 10.0 of Chapter –X of SCC (page-44) and as per cl no: 2.6 of GCC

8.0 TAXES, DUTIES, LEVIES (Consolidated Rev 03 dated 09/04/2013)

8.1. For All types of works excepting works covered under sl no 8.2

8.1.1

The contractor shall pay all (save the specific exclusions as enumerated in this contract) 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 to pay any of such taxes, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.

However, provisions regarding Service Tax and Value Added Tax (VAT) on output services and goods shall be as per following clauses.

8.1.2 Service Tax &Cess on Service Tax

Contractor's price/rates shall be exclusive of Service Tax and Cess on Services. In case, it becomes mandatory for the contractor under provisions of relevant act/law to collect the Service Tax &Cess from BHEL and pay the same to the concerned tax authorities, such applicable amount will be paid by BHEL at the prevailing Service Tax Rate (presently 12.36 %) on the admitted bill value.

Contractor shall submit to BHEL documentary evidence of Service Tax registration certificate specifying name of services covered under this contract. Contractor shall submit serially numbered Service Tax and Cess Invoice, signed by him or a person authorized by him in respect of taxable service provided, and shall contain the following, namely,

1. **The name, address and the registration number of the contractor,**
2. **The name and address of the party receiving taxable service,**
3. **Description, classification and value of taxable service provided and,**
4. **The service tax payable thereon.**

All the Four conditions shall be fulfilled in the invoice before release of service tax payment.

Wherever, more than one route/option are available for discharge of service tax liability under a particular service, (e.g. "works contract Service"), contractor shall obtain prior written consent from BHEL site before billing the amount towards Service Tax.

8.1.3 VAT (Sales Tax /WCT)

As regards Value Added Tax (VAT)/CST on transfer of property in goods involved in Works Contract (previously known as Works Contract Tax) applicable as per local laws, the price quoted by the contractor shall be inclusive of the same and in no case input or output VAT/CST will be reimbursed extra.

In any case the Contractor shall register himself with the respective Sales Tax authorities of the state and submit proof of such registration to BHEL along with the first RA bill. Contractor will submit all the details of VAT/CST paid for the contract in the prescribed format of the respective state VAT laws. Also, the

contractor will issue the tax Invoices to BHEL as per the Tax laws of respective state on monthly basis. Contractor shall also be required to furnish to BHEL necessary proof of VAT remittance on monthly basis.

Deduction of tax at source shall be made as per the provisions of law and is to be construed as an advance tax paid by the contractor and no reimbursement thereof will be made.

Further, if BHEL, at the instance of customer or otherwise adopts the specific route for discharging output VAT liability itself, benefit of the reduction in liability of the contractor will be passed on to BHEL.

In case, BHEL is forced to pay any VAT liability on behalf of contractor, the same will be recovered from contractor's bill or otherwise as deemed fit

~~8.2 'Enabling Works'~~

~~The contractor shall pay all (save the specific exclusions as enumerated in this contract) 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 to pay any of such taxes, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.~~**~~(i.e. rates quoted by bidder shall be inclusive of Service Tax, VAT/WCT and all other taxes and duties)~~**

~~However, Since the proposed work is in the nature of 'Works Contract service' as per Service tax law, Hence, For non-corporate contractors being Individual, HUF, Proprietary Firm, Partnership Firm or Association of Persons (AOP), BHEL shall recover the applicable Service Tax under reverse charge mechanism from the contractor and remit the same with the Government as per the provisions of Law. Necessary advice/confirmation of remittance shall be issued to the contractor. The contractor shall not be eligible for any refund/reimbursement of such service tax from BHEL. It shall be the responsibility of the contractor to submit proper invoice giving all the requisite details as per Service Tax Law for the determination of the service tax liability of BHEL under reverse charge mechanism. BHEL reserves the right to determine such liability based on the invoice submitted by the contractor or otherwise independently and remittance of the same with the Government.~~

8.3 New Taxes/Levies

In case the Government imposes any new levy/tax on the output service/ goods/work after award of the contract, the same shall be reimbursed by BHEL at actual.

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.

No reimbursement/recovery on account 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 of by the Price Variation/Adjustment Clause (PVC) if any. In case PVC is not applicable for the contract, Bidder 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.

FOLLOWING DRAWINGS ARE ENCLOSED WITH THE TENDER.

- **Drawings Given by Customer / BHEL PED Hyd.**

SL. NO	TITLE	DRAWING NO.	REV
1.	**G.A DETAILS OF PIPE RACK BETWEEN PTW06 TO PTW10**	**13814212326-S02**	R1
2.	**GA OF PIPE RACK BETWEEN PTR21 to PTR41**	**13814212326-S03**	R2
3.	**PIPE RACK PTW01 to PTW06-DETAIL OF COLUMNS AND TIE BEAMS**	**23814101082**	R0
4.	**PIPE RACK PTW01 to PTW06-DETAIL OF COLUMNS AND TIE BEAMS**	**23814201069**	R1

Appendix A:

Tentative Manpower Requirement

1. Project manager –1 Head
2. Experienced Civil Engineer– 1 heads
3. Experienced Foreman / Supervisors - 2 heads
4. Planning & Billing Engineer – 01heads
5. Stores, Gate Pass – 01heads
6. Accounts & Administration- 01 head
7. Quality Control Engineer – 01 head
8. Safety Engineer – 1 head
9. Operator, Licensed Electrician, Mechanic - As per requirement
10. Security Guards (Round The Clock) – As per requirement