

BHARAT HEAVY ELECTRICALS LTD.**(TRANSMISSION BUSINESS GROUP)****TERMS AND CONDITIONS FOR INDIGENOUS TENDER ENQUIRY**

This Format is to be submitted in original duly signed by bidder. Deviation, if any, is to be brought out clearly in Schedule of Commercial Deviation giving clause-wise deviation. Any condition / clarification / deviation mentioned elsewhere may not be accepted.

Sr. No.	Standard Terms & Conditions TENDER ENQUIRY NO. 285E024 DATED : 18 – MAY - 2015 DUE DATE : 12 – JUNE - 2015
1.	<p>INSTRUCTION TO BIDDERS:</p> <p>a) Sealed quotations are invited for the items mentioned in the enquiry. Quotations should be typed and free from over writing and erasures. Corrections or additions must be clearly written both in words and figures and attested, otherwise offer shall be liable for rejection.</p> <p>b) Bidder must ensure that their quotation is received / dropped in the tender box on or before 14:00 Hrs of the due date of opening.</p> <p><u>Location of Tender Box:</u></p> <p>Bharat Heavy Electricals Limited,</p> <p>Transmission Business Group,</p> <p>Advant Navis Business park, Tower A</p> <p>5 th Floor, 7 , Sector- 142, Greater Noida Expressway, UP -201305</p> <p>c) The same shall be opened at 14.30 Hrs. on the same day. Tenders received late may be rejected. Bidders sending tenders by courier or post, to ensure that it is delivered one day before as same day delivery may not reach above office by due time.</p> <p>d) Bids are to be submitted in Two parts:</p> <p>i) Techno-commercial bid (Part-I): To be submitted in duplicate. A copy of price bid (Part-II) “without prices” is also to be enclosed in Part-I bid.</p> <p>ii) Bidder to strictly ensure submitting the price bids in BHEL format of Rate Contract or as per project requirement.</p> <p>iii) Price bid (Part-II): To be submitted only in one copy in a separate sealed envelope. This should not contain any Technical or Commercial Terms. The rates should be quoted both in figures and words. In case of any difference between figures and words, the quoted rate in words shall prevail over figure. Further in case of difference between unit rate & total price, unit rate in words shall prevail over total price.</p> <p>Both Parts-I and Part-II bids are to be sealed in separate envelope and both envelopes to be kept in another common envelope. Each envelope should be sealed and superscribed with enquiry no., item / package name, project name (if any) and due date of opening.</p> <p>e) “BHEL reserves the right to go for Reverse Auction instead of Opening the submitted sealed bid, which will be decided after technical evaluation”.</p>

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	<p>f) For any technical clarification please contact :</p> <p>Smt. Muneet Mehta, Manager (TBEM), TBG, BHEL, Advant Navis Business park, Tower A 5th Floor, Sector- 142, Greater Noida Expressway, UP -201305 Email : sarojkumar@bhel.in Tel No 0120-6748527</p> <p>For any commercial clarification please contact official below :</p> <p>Shri Himanshu Kanaskar, Dy. Manager (TBMM), TBG, BHEL, Advant Navis Business park, Tower A 5 th Floor, 7 , Sector- 142, Greater Noida Expressway, UP -201305 Email: scshivhare@bhel.in, kanaskar@bhel.in Tel No 0120- 6748471, 8532</p> <p>g) Price bid should contain only rates / prices, otherwise bid shall be liable for rejection.</p> <p>h) Price bid submitted along with the bid shall remain valid up to validity of offer. Unsolicited Supplementary / Revised price bid submitted during validity period of offer, unless asked by BHEL, shall not be considered. Withdrawal of quotation by the bidder, at any stage after its opening, may entail blacklisting of vendor.</p> <p>i) Enquiry condition for where the scope against this tender includes Installation and Commissioning of the equipment / material: NOT APPLICABLE</p>
2.	<p>PRICES:</p> <p>A. <u>Prices shall be on FIRM basis.</u></p> <p>B. The prices shall be quoted on domestic basis.</p> <p>C. The prices are to be quoted on Ex-works basis. The break-up of prices shall be as under : -</p> <p>a) Ex-works Price: Ex-Works price including packing & forwarding Charges.</p> <p>b) Excise Duty: ADB Funded. Excise Duty exempted against EDEC.</p> <p>c) Sales Tax: ST / VAT / CST (against C form) as applicable to be quoted extra as percentage in un-priced and price bid. In case of inter-state sale-in-transit supplier/vendor will have to provide E1/E2 form.</p> <p>d) Entry tax / Octroi Charges: Any Entry tax / Octroi applicable at destination / destination state shall be paid extra on proof of such payment.</p> <p>e) Freight & Insurance: Freight and Transit Insurance for door delivery up to destination/store is to be quoted.</p> <p>f) Type Test charges: If asked in the technical specification, is to be quoted separately for each Test along with taxes and duties applicable on them.</p>

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	<p>g) Erection / Commissioning supervision charges: If asked in the technical specification, to be quoted separately along with taxes and duties applicable on them.</p> <p>Note: The purchase order shall be placed on Ex-works basis.</p>
3.	<p>TERMS OF PAYMENT:</p> <p>100% payment along with taxes, duties, Freight & Insurance within 60 days from the date of receipt of complete invoice in TBG, BHEL with following documents in 3 sets (Original + 2 copies).</p> <ul style="list-style-type: none"> • LR Endorsed in favor of Customer & Material Receipt Confirmation (MRC) from site • Excise invoice (where ED re-imburement is required) • Packing List (Case-wise) • Copy of Contract Performance Bank Guarantee • Transit insurance Certificate from insurance Co or intimation of Transit Insurance duly endorsed by insurance Co. • MICC issued by BHEL • Guarantee Certificate
4.	<p>INTEREST LIABILITY: In case of any delay in payment due to any reason, BHEL shall not pay any interest on delayed payment.</p>
5.	<p>GUARANTEE: The equipment / material shall be guaranteed for 18 months from the date of material receipt at destination or 12 months from the date of commissioning, whichever is earlier. The defective material / component shall be replaced free of cost at site.</p>
6.	<p>PERFORMANCE BANK GUARANTEE: Bidder shall furnish along with first invoice Performance BG / deposit as per one of following 3 options.</p> <p><u>Option A</u> BG for 10% of the total Ex-works PO value, valid for 24 months from the date of first delivery. PO value at the time of first invoice for the particular order shall be considered for calculation of BG amount.</p> <p><u>Option B</u> Retention of 10% of the total Ex-works PO value by BHEL from the first bill in lieu of Performance Bank Guarantee, to be released after expiry of 24 months from the date of first delivery.</p> <p>The Bank guarantee shall be from State Bank of India / State bank of Hyderabad / State Bank of Travancore / State Bank of Mysore / Canara Bank / Bank of Baroda / Punjab National Bank / Deutsche Bank / HDFC Bank / Standard Chartered Bank / CITI Bank / ICICI Bank / IDBI Bank / HSBC / any other Nationalized Bank. The original BG should be sent by issuing Bank directly to AGM (Finance), TBG, BHEL</p>

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7.	FINAL ENGINEERING DOCUMENTATION: Final documentation as called in the specification is to be submitted within 3 months from the date of dispatch of material.
8.	INSPECTION: BHEL / customer / third party shall inspect equipment / material before despatch. Stage inspection during manufacturing may also be carried out. Material to be despatched only after getting Despatch Clearance from BHEL. Supplier shall send inspection call on prescribed format or website only, with an advance notice of 15 days. Vendor shall forward all inspection and test reports for issue of MICC by BHEL. Road Permit Form request should also be given along with Inspection call.
9.	DESPATCH DOCUMENTS: Following despatch documents are to be immediately sent to purchaser on despatch: <ul style="list-style-type: none"> • Copy of Invoice and LR • Packing List (Case-wise) • Insurance Certificate
10.	DELIVERY PERIOD: Bidder to specify delivery period in weeks from the date of LOI/PO. Note: LR date or Invoice date whichever is later shall be considered as delivery date.
11.	DELAYED DELIVERY: In case of delay in execution of order beyond the lot wise contractual delivery, an amount of ½ % of total Ex-Works Value per week or part thereof subject to maximum of 10% of total Ex-Works Value of P.O. will be levied.
12.	VALIDITY: The offer shall be valid for 120 days from the due date of opening.
13.	ACCEPTANCE / REJECTION OF TENDER: BHEL reserves the right to reject in full or part, any or all tenders without assigning any reason thereof. BHEL also reserves right to vary the quantities mentioned in the tender.
14.	EVALUATION: Comparative statement shall be prepared based on overall quantity basis unless otherwise indicated in the enquiry. Evaluation of offers shall be done on the basis of delivered cost to BHEL.
15.	DEVIATION: The bids having deviation(s) w.r.t. tender are liable for rejection. However, BHEL, at its discretion, may load the prices for evaluation of offer as per Loading Criteria for identified deviations mentioned in clause No. 22.

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16.	ARBITRATION: All cases of disputes emanating from and relating to this contract shall be referred to the sole arbitration of Unit Head / GM, BHEL or any other person (including an employee of BHEL, even though he had to deal with the matter relating to this contract in any manner) nominated by him to act as sole arbitrator. The arbitration shall be under 'The Arbitration and Conciliation Act 1996' and the rules thereunder as amended from time to time. The arbitrator may from time to time with the consent of the parties enlarge the time for making and publishing the award. The arbitrator shall give a reasoned award. The decision of the arbitrator shall be final & binding upon both the parties. The venue of arbitration shall be Delhi.
17.	LEGAL SETTLEMENT: All suits/claims in respect of this contract shall be in the courts having jurisdiction at Delhi.
18.	SUBCONTRACTING : In case further subcontracting of BHEL order or part thereof is envisaged by supplier, the same can be done after written permission is obtained from BHEL. However it shall not absolve the supplier of the responsibility of fulfilling BHEL purchase order requirements.
19.	RISK PURCHASE: In case the successful bidder fails to supply or fails to comply with the terms & conditions of the purchase order, BHEL reserves the right to source such material / component / equipment / system from any other agency at the risk and cost of the successful bidder.
20.	ADJUSTMENT OF RECOVERY: Any amount payable by the supplier / vendor under any of the condition of this contract shall be liable to be adjusted against any amount payable to the supplier / vendor under any other works / contract awarded to him by any BHEL unit. This is without prejudice to any other action as may be deemed fit by BHEL.
21.	FORCE MAJEURE CONDITION: If by reason of war, civil commotion, act of god, Government restrictions, strike, lockout which are not in control of supplier the deliveries are delayed, supplier shall not be held responsible.
22.	LOADING CRITERIA FOR DEVIATIONS TAKEN BY BIDDER ON: <u>22.1.TERMS OF PAYMENT:</u> If a bidder asks for payment within specified no. of days from the date of receipt of invoice with complete documents as per "Terms of Payment" at sr. No. 3 above, loading to be done as follows: a) Base rate of SBI (as applicable on the date of techno commercial bid opening) + 6 % shall be considered for loading for the period of relaxation sought by the bidder. b) 60 days - No loading <u>22.2. DELAYED DELIVERY / PENALTY DUE TO DELAYED DELIVERY:</u> Loading for not accepting this clause / accepting only on un delivered portion shall be the maximum amount specified in this clause. <u>22.3 GUARANTEE:</u> Normally BHEL will not accept deviation against this clause and offer may be ignored on this deviation, however If the offered guarantee period is less than the tender guarantee period the ex- works prices shall be loaded for the difference in the period (higher of the difference with respect to guarantee required from date of delivery and date

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	of commissioning) @ 2.5 % per year for number of months(fractional months to be rounded off to next higher).
23.	QUANTITY VARIATION: As per Technical Specification
24.	TECHNICAL SPECIFICATION : TB-368-316-006 REV. 00
25.	INTENDED BENEFITS FOR MSE SUPPLIERS: MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II certificate having deemed validity (Two years from the date of issue of acknowledgement in EM-II) or valid NSIC certificate or EM II certificate along with CA certificate (Format enclosed as per Annexure I) applicable for the year, certifying quantum of investment in plant & machinery within the permissible limit as per the act for relevant status (Micro or Small) where the deemed validity of EM II is over. Date to be reckoned for determining the deemed validity will be the last date of technical bid submission. Non submission of such documents will lead to consideration of their bids at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier till the supplier submits these documents.
26.	PRE QUALIFYING CRITERIA FOR OPEN TENDER : Bidder must meet following Technical Qualifying Requirements : <ol style="list-style-type: none"> 1. Material required from manufacturer only. 2. Vendor must have supplied the MS flat for substation/switchyard/power transmission projects in last five years from the date of bid opening which is 20.11.13.
27.	Approval from Customer shall be sought only for Techno-Commercially acceptable Vendors who conform to the Pre-Qualifying Criteria detailed in Clause 26 of NIT. Only those Techno-Commercially acceptable Vendors will be considered for Reverse Auction/ Price bid opening whose approval is obtained from Customer. It shall be the responsibility of respective bidder to provide the requisite documents in line with Pre-Qualifying Criteria & as required by customer for vendor approval after techno-commercial evaluation of the bids.
28.	Special Instructions for Packing : Following case marking to be followed : <ol style="list-style-type: none"> 1. Contract No. & Date 2. Details of equipment including serial no. 3. Name of destination / substation 4. Package No.

Seal of the bidder

Signature of the bidder

Certificate by Chartered Accountant on letter head

This is to Certify that M/S
(hereinafter referred to as 'company') having its registered office at
is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part-II) dtd:.....,
Category: (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on
date..... as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated October 5, 2006 :
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:
Rs.....Lacs

The above investment of Rs.....Lacs is within permissible limit of
Rs.....Lacs forMicro / Small (~~Strike off which is not applicable~~)
Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership number -

Seal of Chartered Accountant

Terms & Conditions of Reverse Auction

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).

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. 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.
3. 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.
4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
6. 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. 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 non-compliance 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.
8. Reverse auction will be conducted on scheduled date & time.
9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.

10. 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.
11. 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.
12. 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.
13. 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.
14. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
15. 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.



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SCHEDULE OF COMMERCIAL DEVIATION

The following are the deviations/ variations exception from the General Terms and Conditions:

SL. NO.	CLAUSE NO. OF GENERAL TERMS AND CONDITION	STATEMENT OF DEVIATION

- **In case, this schedule is not submitted, it will be presumed that the equipment/ material to be supplied under this contract is deemed to be in compliance with the General Terms and Conditions.**
- If there is NIL deviation, even then the format to be filled as **NIL DEVIATION**.

Note: Continuation Sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this scheduled.

Place: -

Date: -

Signature of the authorized representative of

Bidder's name:.....

Designation.....

Company Seal:.....

SCHEDULE OF TECHNICAL DEVIATION

The following are the deviations/ variations exception from the Specification:

SECTION	CLAUSE NO. / PAGE NO.	STATEMENT OF DEVIATION/ VARIATIONS/EXCEPTIONS

- **In case, this schedule is not submitted, it will be presumed that the equipment/ material to be supplied under this contract is deemed to be in compliance with the General Terms and Conditions.**
- If there is NIL deviation, even then the format to be filled as **NIL DEVIATION**.

Note: Continuation Sheets of like size and format may be used as per the Bidder's Requirement and shall be annexed to this scheduled.

Place: -

Date: -

Signature of the authorized representative of

Bidder's Name:.....

Designation:.....

Company Seal:.....

ACTIVITY SCHEDULE

(To be filled – up by the supplier)

NOTE: This format is to be submitted in original only, duly filled in. Reproduction of this format on bidder’s letter head or on other paper is not acceptable.

SL. NO.	ACTIVITY		ACTIVITY TIME IN WEEKS	CUMULATIVE TIME IN WEEKS FROM LOI/PO DATE	REMARKS IF ANY
1.	Submission of P.O Acceptance	Max 1 week			
2.	Submission of documents necessary for getting manufacturing clearance like Drawings, date sheet etc.				
3.	Review and Approval of documents and issue of manufacturing clearance	‘BY BHEL’			
4.	Manufacturing Time				
5.	Inspection	‘BY BHEL’			
6.	Issue of MICC and other documents like Road Permits etc.	‘BY BHEL’			
7.	Dispatch				

- Note :
- 1) For Sl. No. 4) Inspection call for entire lot to be issued 2 weeks in advance. Date given in call for inspection should be within the period indicated in “A” for completion of activity at Sl. No. 5.
 - 2) Supplier must ensure the completeness and correctness of the requisite documents before submission for approval. Delay in approval on account of incomplete / inadequate information shall be the responsibility of supplier.
 - 3) Inspection call should be given in the prescribed format only. Inspection calls not in the prescribed format shall not be entertained.
 - 4) Qty to be offered for inspection should be in accordance within Delivery-schedule – lot. BHEL reserves the right not to entertain multiple inspection calls for a Delivery – lot and delay on this account shall be the responsibility of Supplier.
 - 5) Delivery is required by JUNE 2015. However, Bidders to quote their best Delivery Plan in this schedule.

Signature & Seal of
Supplier
Date:

UNPRICED BID

Enquiry No 285E024 Dated 18 - MAY - 2015 Due on 12 - JUNE - 2015
(BIDDERS TO STRICTLY ENSURE SUBMITTING THE PRICE BIDS IN THIS FORMAT)

MPPTCL KIRNAPUR (BALAGHAT), BADNAWAR, BHOPAL, CHHEGAON AND NAGDA

S.No.	Description of item.	BALAGAHT	BALAGAHT	UNIT PRICE EX. WORKS (Rs. / MT)	TOTAL EX. WORKS (Rs.)	UNIT FREIGHT & INSURANCE UP TO SITE (Rs. / MT)	TOTAL FREIGHT & INSURANCE UP TO SITE (Rs.)	EXCISE DUTY (Rs.)	CST/VAT/ST @.....% OF COL 6 (Rs.) AGAINST FORM "C"	F.O.R. DESTINATION PRICE (Rs.) COL (6 + 8 + 9)
		Qty. (KMS)	Qty. (MT)							
1	2	3	4	5	6 = 5 * 4	7	8 = 7 * 4	9	10	11
1	50 X 6 mm MS Flat	11.5	27.08					EXEMPTED AGAINST EDEC.		
2	75 X 8 mm MS Flat	11.5	54.17					EXEMPTED AGAINST EDEC.		
3	100 X 12 mm MS Flat	19.5	183.69					EXEMPTED AGAINST EDEC.		

NOTE: 1. PLEASE NOTE THAT UNPRICED COPY OF PRICE BID (i.e. WITH ALL PRICES BLANKED) SHALL BE FURNISHED ALONG WITH TECHNO-COMMERCIAL BID.
2. REQUIRED COPIES OF FORMAT BE MADE & DETAILS MAY BE ANNEXED.
3. THE PRICES MUST BE QUOTED IN THE PRESCRIBED UNIT ONLY.
4. SALES TAX RATE AS APPLICABLE FOR SPECIFIED DESTINATION SHALL BE QUOTED. IN CASE OF CST, RATE AGAINST "C" FORM SHALL BE QUOTED.
5. IN CASE OF VARIED ED SLAB RATES, CONFIRM YOUR OPTION FOR "X" OR "Y". (STRIKE OFF WHICH IS NOT APPLICABLE)
IF NO OPTION IS MENTIONED "X" SHALL BE TAKEN.

6. THE VENDORS MUST INDICATE THE APPLICABLE TARIFF NOS. UNDER WHICH ED AND / OR CST WOULD BE PAID BY THEM TO THE TAX AUTHORITIES.
7. IF A VENDOR SUBMITS AN OFFER WITH REDUCED ED AND OR CST APPLICABLE THAN NORMALLY PAID ON SUCH ITEMS, THEY SHOULD SUBMIT NECESSARY DOCUMENTARY PROOF FOR THE SAME.
"X" THE MAXIMUM ED SLAB RATE BE CONSIDERED FOR PRICE COMPARISON. IN THE EVENT OF ORDER ED AT ACTUAL BE PAID.
"Y" THE QUOTED ED RATE BE CONSIDERED FOR PRICE COMPARISON. IN THE EVENT OF ORDER ED AT ACTUAL RATE LIMITED TO QUOTED RATE BE PAID.
SIGNATURE & SEAL OF TENDERER

UNPRICED BID

Enquiry No 285E024 Dated 18 - MAY - 2015 Due on 12 - JUNE - 2015
(BIDDERS TO STRICTLY ENSURE SUBMITTING THE PRICE BIDS IN THIS FORMAT)

MPPTCL KIRNAPUR (BALAGHAT), BADNAWAR, BHOPAL, CHHEGAON AND NAGDA

S.No.	Description of item.	BADNAWAR	BADNAWAR	UNIT PRICE EX. WORKS (Rs. / MT)	TOTAL EX. WORKS (Rs.)	UNIT FREIGHT & INSURANCE UP TO SITE (Rs. / MT)	TOTAL FREIGHT & INSURANCE UP TO SITE (Rs.)	EXCISE DUTY (Rs.)	CST/VAT/ST @.....% OF COL 6 (Rs.) AGAINST FORM "C"	F.O.R. DESTINATION PRICE (Rs.) COL (6 + 8 + 9)
		Qty. (KMS)	Qty. (MT)							
1	2	3	4	5	6 = 5 * 4	7	8 = 7 * 4	9	10	11
1	50 X 6 mm MS Flat	16.5	38.86					EXEMPTED AGAINST EDEC.		
2	75 X 8 mm MS Flat	16.5	77.72					EXEMPTED AGAINST EDEC.		
3	100 X 12 mm MS Flat	28.4	267.53					EXEMPTED AGAINST EDEC.		

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3. THE PRICES MUST BE QUOTED IN THE PRESCRIBED UNIT ONLY.
4. SALES TAX RATE AS APPLICABLE FOR SPECIFIED DESTINATION SHALL BE QUOTED. IN CASE OF CST, RATE AGAINST "C" FORM SHALL BE QUOTED.
5. IN CASE OF VARIED ED SLAB RATES, CONFIRM YOUR OPTION FOR "X" OR "Y". (STRIKE OFF WHICH IS NOT APPLICABLE)
IF NO OPTION IS MENTIONED "X" SHALL BE TAKEN.

6. THE VENDORS MUST INDICATE THE APPLICABLE TARIFF NOS. UNDER WHICH ED AND / OR CST WOULD BE PAID BY THEM TO THE TAX AUTHORITIES.
7. IF A VENDOR SUBMITS AN OFFER WITH REDUCED ED AND OR CST APPLICABLE THAN NORMALLY PAID ON SUCH ITEMS, THEY SHOULD SUBMIT NECESSARY DOCUMENTARY PROOF FOR THE SAME.
"X" THE MAXIMUM ED SLAB RATE BE CONSIDERED FOR PRICE COMPARISON. IN THE EVENT OF ORDER ED AT ACTUAL BE PAID.
"Y" THE QUOTED ED RATE BE CONSIDERED FOR PRICE COMPARISON. IN THE EVENT OF ORDER ED AT ACTUAL RATE LIMITED TO QUOTED RATE BE PAID.
SIGNATURE & SEAL OF TENDERER

UNPRICED BID

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(BIDDERS TO STRICTLY ENSURE SUBMITTING THE PRICE BIDS IN THIS FORMAT)

MPPTCL KIRNAPUR (BALAGHAT), BADNAWAR, BHOPAL, CHHEGAON AND NAGDA

S.No.	Description of item.	BHOPAL	BHOPAL	UNIT PRICE EX. WORKS (Rs. / MT)	TOTAL EX. WORKS (Rs.)	UNIT FREIGHT & INSURANCE UP TO SITE (Rs. / MT)	TOTAL FREIGHT & INSURANCE UP TO SITE (Rs.)	EXCISE DUTY (Rs.)	CST/VAT/ST @.....% OF COL 6 (Rs.) AGAINST FORM "C"	F.O.R. DESTINATION PRICE (Rs.) COL (6 + 8 + 9)
		Qty. (KMS)	Qty. (MT)							
1	2	3	4	5	6 = 5 * 4	7	8 = 7 * 4	9	10	11
1	50 X 6 mm MS Flat	3.3	7.77					EXEMPTED AGAINST EDEC.		
2	75 X 8 mm MS Flat	2.9	13.66					EXEMPTED AGAINST EDEC.		
3	100 X 12 mm MS Flat	12.5	117.75					EXEMPTED AGAINST EDEC.		

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IF NO OPTION IS MENTIONED "X" SHALL BE TAKEN.

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7. IF A VENDOR SUBMITS AN OFFER WITH REDUCED ED AND OR CST APPLICABLE THAN NORMALLY PAID ON SUCH ITEMS, THEY SHOULD SUBMIT NECESSARY DOCUMENTARY PROOF FOR THE SAME.
"X" THE MAXIMUM ED SLAB RATE BE CONSIDERED FOR PRICE COMPARISON. IN THE EVENT OF ORDER ED AT ACTUAL BE PAID.
"Y" THE QUOTED ED RATE BE CONSIDERED FOR PRICE COMPARISON. IN THE EVENT OF ORDER ED AT ACTUAL RATE LIMITED TO QUOTED RATE BE PAID.
SIGNATURE & SEAL OF TENDERER

UNPRICED BID

Enquiry No 285E024 Dated 18 - MAY - 2015 Due on 12 - JUNE - 2015
(BIDDERS TO STRICTLY ENSURE SUBMITTING THE PRICE BIDS IN THIS FORMAT)

MPPTCL KIRNAPUR (BALAGHAT), BADNAWAR, BHOPAL, CHHEGAON AND NAGDA

S.No.	Description of item.	CHHEGAON	CHHEGAON	UNIT PRICE EX. WORKS (Rs. / MT)	TOTAL EX. WORKS (Rs.)	UNIT FREIGHT & INSURANCE UP TO SITE (Rs. / MT)	TOTAL FREIGHT & INSURANCE UP TO SITE (Rs.)	EXCISE DUTY (Rs.)	CST/VAT/ST @.....% OF COL 6 (Rs.) AGAINST FORM "C"	F.O.R. DESTINATION PRICE (Rs.) COL (6 + 8 + 9)
		Qty. (KMS)	Qty. (MT)							
1	2	3	4	5	6 = 5 * 4	7	8 = 7 * 4	9	10	11
1	50 X 6 mm MS Flat	2.7	6.36					EXEMPTED AGAINST EDEC.		
2	75 X 8 mm MS Flat	2.3	10.83					EXEMPTED AGAINST EDEC.		
3	100 X 12 mm MS Flat	8.8	82.9					EXEMPTED AGAINST EDEC.		

NOTE: 1. PLEASE NOTE THAT UNPRICED COPY OF PRICE BID (i.e. WITH ALL PRICES BLANKED) SHALL BE FURNISHED ALONG WITH TECHNO-COMMERCIAL BID.
2. REQUIRED COPIES OF FORMAT BE MADE & DETAILS MAY BE ANNEXED.
3. THE PRICES MUST BE QUOTED IN THE PRESCRIBED UNIT ONLY.
4. SALES TAX RATE AS APPLICABLE FOR SPECIFIED DESTINATION SHALL BE QUOTED. IN CASE OF CST, RATE AGAINST "C" FORM SHALL BE QUOTED.
5. IN CASE OF VARIED ED SLAB RATES, CONFIRM YOUR OPTION FOR "X" OR "Y". (STRIKE OFF WHICH IS NOT APPLICABLE) IF NO OPTION IS MENTIONED "X" SHALL BE TAKEN.

6. THE VENDORS MUST INDICATE THE APPLICABLE TARIFF NOS. UNDER WHICH ED AND / OR CST WOULD BE PAID BY THEM TO THE TAX AUTHORITIES.
7. IF A VENDOR SUBMITS AN OFFER WITH REDUCED ED AND OR CST APPLICABLE THAN NORMALLY PAID ON SUCH ITEMS, THEY SHOULD SUBMIT NECESSARY DOCUMENTARY PROOF FOR THE SAME.
"X" THE MAXIMUM ED SLAB RATE BE CONSIDERED FOR PRICE COMPARISON. IN THE EVENT OF ORDER ED AT ACTUAL BE PAID.
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SIGNATURE & SEAL OF TENDERER

UNPRICED BID

Enquiry No 285E024 Dated 18 - MAY - 2015 Due on 12 - JUNE - 2015
(BIDDERS TO STRICTLY ENSURE SUBMITTING THE PRICE BIDS IN THIS FORMAT)

MPPTCL KIRNAPUR (BALAGHAT), BADNAWAR, BHOPAL, CHHEGAON AND NAGDA

S.No.	Description of item.	NAGDA	NAGDA	UNIT PRICE EX. WORKS (Rs. / MT)	TOTAL EX. WORKS (Rs.)	UNIT FREIGHT & INSURANCE UP TO SITE (Rs. / MT)	TOTAL FREIGHT & INSURANCE UP TO SITE (Rs.)	EXCISE DUTY (Rs.)	CST/VAT/ST @.....% OF COL 6 (Rs.) AGAINST FORM "C"	F.O.R. DESTINATION PRICE (Rs.) COL (6 + 8 + 9)
		Qty. (KMS)	Qty. (MT)							
1	2	3	4	5	6 = 5 * 4	7	8 = 7 * 4	9	10	11
1	50 X 6 mm MS Flat	0.5	1.18					EXEMPTED AGAINST EDEC.		
2	75 X 8 mm MS Flat	0.8	3.77					EXEMPTED AGAINST EDEC.		
3	100 X 12 mm MS Flat	0.7	6.59					EXEMPTED AGAINST EDEC.		

NOTE: 1. PLEASE NOTE THAT UNPRICED COPY OF PRICE BID (i.e. WITH ALL PRICES BLANKED) SHALL BE FURNISHED ALONG WITH TECHNO-COMMERCIAL BID.
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5. IN CASE OF VARIED ED SLAB RATES, CONFIRM YOUR OPTION FOR "X" OR "Y". (STRIKE OFF WHICH IS NOT APPLICABLE)
IF NO OPTION IS MENTIONED "X" SHALL BE TAKEN.

6. THE VENDORS MUST INDICATE THE APPLICABLE TARIFF NOS. UNDER WHICH ED AND / OR CST WOULD BE PAID BY THEM TO THE TAX AUTHORITIES.
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BHARAT HEAVY ELECTRICALS LIMITED
TRANSMISSION BUSINESS ENGINEERING MANAGEMENT
 NEW DELHI

DOCUMENT No.	TB-368-316-006	Rev	00	Prepared	Checked	Approved
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CUSTOMER Doc. No.		NAME	SK	SKS	RS
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TYPE OF DOC.	TECHNICAL SPECIFICATION	SIGN	<i>SK</i>	<i>SKS</i>	<i>RS</i>
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TITLE	MS FLAT	DATE	07.04.15	07/04/15	<i>24/15</i>
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		GROUP	TBEM		
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		W.O. No	83012		
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CUSTOMER	MADHYA PRADESH POWER TRANSMISSION LTD.
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PROJECT	Construction of new 400 kV sub stations, transmission lines and Augmentation work/feeder bay work on total turnkey basis (Lot no. 1) Balaghat, Badnawar, Bhopal, Chhegaon and Nagda
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Rev.	Date	Altered	Checked	Approved	REVISION DETAILS	
Distribution				CUSTOMER	TBMM	O/C
				-		

SECTION – 1

SCOPE, SPECIFIC TECHNICAL REQUIREMENT AND QUANTITIES

1. SCOPE:-

This technical specification covers the requirements of design, manufacture, testing at works, packing and dispatch of MS flat to site.

This section covers the scope and quantities of MS flat. The offered MS flat shall also comply with the General Technical Requirements for the project as detailed under section-3 of this specification. For environmental conditions, refer Section-3 carefully.

The specification comprise of following sections:

Section-1: Scope, specific technical requirements & Bill of Quantities.

Section-2: Equipment specifications

Section-3: General technical requirements for all equipments under the project.

Section-4: Guaranteed Technical Particulars

In case of any conflict between various sections, order of precedence shall be in the same order as listed above.

The equipment is required for the following projects:

Name of the Customer : Madhya Pradesh Power Transmission Company Ltd.
 Name of the Project : Construction of new 400 kV sub stations, transmission lines and Augmentation work/feeder bay work on total turnkey basis (Lot no.- 1) - Balaghat, Badnawar, Bhopal, Chhegaon and Nagda

The term 'Owner' appearing in this specification shall refer to MPPTCL, the term 'Purchaser/Employer' shall refer to BHEL and the term 'Contractor' shall refer to the successful Bidder.

2. SPECIFIC TECHNICAL REQUIREMENTS:-

Chemical composition & mechanical properties	Grade –A(Item designation –Fe410W) of IS :2062
Size	As per BOQ
Cut Length	4 m to 6 m

3. BILL OF QUANTITIES:- As per annexure-1

Note -1-Total quantity may vary upto $\pm 25\%$ at contract stage. However, individual item wise and project wise quantities may vary upto $\pm 30\%$.

Note -2- All applicable tests as per IS: 2062 shall be conducted by the bidder.

4. INSPECTION & TESTING:-

Before being fitted on the equipment, all components shall be subjected to routine tests at the Contractors factory, as per the relevant IEC/IS standards. A detailed test report proving the successful passing of such tests shall be provided.

Prior to dispatch, the routine & acceptance tests shall be carried out on equipment in accordance with the applicable IEC /IS and the material shall be offered for final inspection to BHEL and MPPTCL in accordance with agreed quality plan with 3 weeks advance information.

5. QUALITY PLAN:-

The contractor shall carry out contract works in accordance with sound quality management principles which shall include such as controls which are necessary to ensure full compliance to all requirements of the specification & applicable international standards. These quality management requirement shall apply to all activities during design, procurement, manufacturing, inspection, testing, packaging, shipping, inland transportation, storage, site erection & commissioning. Contractor shall submit detailed Quality Plan for BHEL / MPPTCL approval within 1 week of P.O. placement.

Annexure-1(BOQ of MS Flat for MPPTCL REV -00)

Sl. no.	Description	Unit	Quantity.					Total
			Balaghat	Badnawar	Bhopal	Chhegaon	Nagda	
1	50X6 mm MS flat	KM	11.50	16.50	3.30	2.70	0.50	34.50
		MT	27.08	38.86	7.77	6.36	1.18	81.25
2	75X8 mm MS flat	KM	11.50	16.50	2.90	2.30	0.80	34.00
		MT	54.17	77.72	13.66	10.83	3.77	160.15
3	100X12 mm MS flat	KM	19.50	28.40	12.50	8.80	0.70	69.90
		MT	183.69	267.53	117.75	82.90	6.59	658.46
Total weight of MS for all project =899.860MT								
Note -1-Total quantity may vary upto ±25% at contract stage. However, individual item wise and project wise quantities may vary upto ±30%.								

Sripad MM
07/04/15

SECTION - II
2.5.2 TECHNICAL SPECIFICATION FOR MS FLATS & MS ROUND

1.0 SCOPE -

This scope of this specification covers design, manufacturing supply of MS Flat ~~and MS Round~~ for EHV substations as per ~~Section-I, Volume-II~~. The bidder mentioned in the Section of Technical specification means "Original Equipment Manufacturer (OEM)". The purchaser means the "MPPTCL". *BHEL*

In case bidder is not OEM, sole responsibility of offering equipment / material of manufacturer as per this specification requirement shall rest on the bidder.

2.0 STANDARDS -

Applicable standards for offered equipment / material shall be as per ~~Section-I, Volume-II~~. *IS: 2062, IS: 1852, IS: 2830*

3.0 CLIMATIC CONDITIONS -

Applicable climatic conditions shall be as per ~~Section-I, Volume-II~~.

4.0 SYSTEM PARTICULARS -

Applicable system particulars shall be as per ~~Section-I, Volume-II~~.

5.0 SIZE OF MS FLATS & MS ROUND -

The following sizes of MS Flats & ~~MS Round~~ are covered in this specification:-

S. No.	Material Particulars
A	MS Flats
1	75X8 mm
2	50X6 mm
3	65x8mm 100x12mm
B	MS Round
1	40 mm

6.0 MATERIAL -

The MS Flats & ~~MS Round~~ should be conforming to latest version of IS: 2062. Tested MS Flats & ~~MS Round~~ having its yield strength not less than 2550 kg/sq cm shall be used. If re-rolled materials are supplied, then it must be ensured that Re-rolling of MS Flats & ~~MS Round~~ is done from billets/ingots of tested quality only and re-rolled sections are duly tested as per relevant IS.

7.0 WEIGHMENT-

The Weighment shall be witnessed by the consignee at the time of taking delivery. The Weighment recorded in the Material Receipt Certificate (MRC) issued by the consignees shall be final. The bidder / manufacturer is exclusively responsible for any loss in transit.

8.0 VARIATION IN QUANTITY-

Variation in ordered quantity of any size and overall ordered quantity shall be to the extent of $\pm 2\%$ only. Any claim of quantity supplied in excess of these limit shall not be admitted.

9.0 LENGTH-

The MS Flats & ~~MS Round~~ shall be supplied in following lengths:

- i. M.S.Flats : ~~5.5 Mtrs. to 15 Mtrs.~~ 4m to 6m
- ii. ~~M.S.rounds~~ : ~~7 Mtrs. to 15 Mtrs.~~

Any tolerance on negative side shall not be accepted.

10.0 PACKING & MARKING-

Each bundle or packing shall be marked in "legible English letters" in the following manner.

- i. Reference of purchase order
- ii. The name of the consignee
- iii. Manufacturer's identification.

The marking shall be stenciled and indelibly inked on the each member in the bundles.

11.0 GENERAL GUIDE-LINES FOR INSPECTION-

FOR MS FLATS & ~~MS ROUND~~

- i. Visual examination and quantity verification of offered lot.
- ii. One no. sample shall be selected from the offered lot of every 50 MT or part thereof for each Size.
- iii. Dimensional verification of MS Flats & ~~MS Round~~.
- iv. Tensile test and Bend test of each sample.
- v. Chemical composition test of one sample of every 50 MT or part thereof.
- vi. Verification of manufacturer's test certificate for billets/ingots used in rolling of MS Flats & ~~MS Round~~.

12.0 INSPECTION AND TEST CERTIFICATES -

- (i) MS Flats & ~~MS Round~~ to be supplied will be subject to inspection and approval by the MPPTCL 's representative before dispatch and / or on arrival at the destination. Inspection before dispatch shall not, however, relieve the supplier of his responsibility to supply the MS Flats & ~~MS Round~~ strictly in accordance with the specification.
- (ii) The successful bidder / manufacturer shall abide by all the statutory provisions, acts such as the Indian Electricity Act, Indian Factory Act,

Indian Boiler Act etc., and corresponding rules and regulations as may be applicable and as amended from time to time.

- (iii) The MPPTCL's representative shall be entitled at all reasonable time during manufacture to inspect, examine and test at the bidder's premises the materials and workmanship of the material to be supplied.
- (iv) As soon as the material is ready for testing, the supplier shall intimate the MPPTCL well in advance, so that action could be taken for getting the material inspected. The material shall not be dispatched unless waiver of inspection is obtained or inspected by the MPPTCL's authorized representative. When the material has passed the specified tests, the MPPTCL's representative shall furnish a certificate to this effect in writing to the supplier. The MS Flats & ~~MS Round~~ shall not be dispatched unless the test certificates are approved.
- (v) Test certificates shall be in accordance with latest version of the relevant Indian Standards.
- (vi) The acceptance of any batch shall in no way relieve the supplier of any of his responsibilities for meeting all the requirements of the specification and shall not prevent subsequent rejection at any item if the same is later found defective.
- (vii) In case, MS Flats & ~~MS Round~~ is not found as per the relevant specification, it shall be liable for rejection even after receipt.
- (viii) Defects which may appear during manufacture shall be made good.
- (ix) Testing charges shall be born by the bidder.

13.0 ROUTINE TEST CERTIFICATES -

The successful Bidder/ Manufacturer shall submit the routine test certificates of raw material at the time of routine testing of MS Flats & ~~MS Round~~.

14.0 PREFERRED EXPERIENCED MANUFACTURER:

Based on our past experience for this item we will accept equipment / material manufactured by M/s. SAIL, M/s. RINL, M/s. Unique Structures, M/s. Pushpak Steel and M/s. Karam Steel as for as this item is concerned.

15.0 IMPORTANT NOTE FOR BIDDERS-

In this bid, the Bidders will have to furnish confirmation in regard to compliance of our entire technical requirements. The bid should clearly describe various technical particulars of the MS Flats & ~~MS Round~~ as per details given in this specification. Based on above information all details required in Schedules should be furnished so that we may be able to examine whether the Bid submitted is technically acceptable or not.

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SECTION-3

3.0 GENERAL

This section stipulates the General Technical Requirements under the Contract and will form an integral part of the Technical Specification.

The provisions under this section are intended to supplement general requirements for the materials, equipments and services covered under other respective sections and are not exclusive. However in case of conflict between the requirements specified in this section and requirements specified under other sections, the requirements specified under respective sections shall hold good.

3.1 PROJECT INFORMATION AND SYSTEM PARAMETERS

a)	Customer/ Purchaser/ Owner	Madhya Pradesh power Transmission company Ltd.				
b)	Project Title	Construction of new 400 kV sub stations, transmission lines and Augmentation work/feeder bay work on total turn key basis (Lot no. 1) – Balaghat , Badnawar, Bhopal, Chhegaon and Nagda substation				
c)	Location	Balaghat	Badnawar	Bhopal	Chhegaon	Nagada
		Balaghat is Located in district of Balaghat of Madhya Pradesh. Distance between Jabalpur to Balaghat is 232 km by Road and 130 km by Rails.	Badnawar is Located in district of Dhar of Madhya Pradesh. Distance between Badnawar to Ujjain is 70 km by Road .	Bhopal site is located 20 km away from Bhopal city.	Chhegaon is located in Khandwa district of Madhya Pradesh . Distance between Chhegaon to Khandwa is 15 km by Road.	Nagda is located in Ujjain district of Madhya Pradesh. The road distance between Nagda to Ujjain is 47 km
d)	Transport Facilities	Road/Rail				
e)	Postal Address	To follow				
SITE CONDITIONS						
a)	Maximum ambient air temperature	50°C				
b)	Minimum ambient air temperature	1°C				
c)	Average daily ambient temperature	35°C				

Madhya Pradesh power Transmission company Ltd. Bharat Heavy Electricals Ltd.
 Construction of new 400 kV sub stations, transmission lines and Augmentation work/feeder bay
 work on total turn key basis (Lot no. 1) - Balagaht, Badnawar, Bhopal, Chhegaon and Nagda,

d)	Maximum Relative humidity	95 % (sometimes approach saturation)
e)	Pollution Severity	Heavily Polluted
f)	Seismic level (horizontal acceleration)	0.3g
g)	Wind zone as per IS 802 (PART 1) -1995	4
h)	maximum wind pressure	150kg/sq.mts
i)	Average annual rainfall	1250 mm
j)	Maximum altitude above mean see level	1000m
k)	Isolceraunic level	90 days per year
l)	Climate	Moderately hot & humid tropical climate , conducive ti rust & fungus growth

3.2 MATERIAL/WORKMANSHIP

3.2.1 General Requirement

Where the specification does not contain characteristics with reference to workmanship, equipment, materials and components of the covered Equipment it is understood that the same must be new, of highest grade of the best quality of their kind conforming to best engineering practice and suitable for the purpose for which they are intended.

The design of the Works shall be such that installation, future expansions, replacements and general maintenance may be undertaken with a minimum of time and expenses. Each component shall be designed to be consistent with its duty and suitable factors of safety, subject to mutual agreements and shall be used throughout the design. All joints and fastenings shall be devised, constructed and documented so that the component parts shall be accurately positioned and restrained to fulfill their required function. In general screw threads shall be standard metric threads. The use of other thread forms will only be permitted when prior approval has been obtained from purchaser.

Whenever possible, all similar part of the Works shall be made to gauge and shall also be made interchangeable with similar parts. All spare parts shall be interchangeable with, and shall be made of the same materials and workmanship as the corresponding parts of the Equipment supplied under the Specification. Where feasible, common component units shall be employed in different pieces of equipment in order to minimize spare parts stocking requirements. All equipment of the same type and rating shall be physically and electrically interchangeable.

All materials and equipment shall be installed in strict accordance with the manufacturer's recommendation(s). Only first-class work in accordance with the best modern practices will be accepted. Installation shall be constructed as being the erection of equipment at its permanent location. This, unless otherwise specified, shall include unpacking, cleaning and lifting into position, grouting, leveling, aligning, coupling of or bolting down to previously installed equipment bases/foundations, performing the alignment check and final adjustment prior to

initial operation, testing and commissioning in accordance with the manufacturer's tolerances and instructions and the Specification. All factory assembled rotating machinery shall be checked for alignment and adjustments made as necessary to re-establish the manufacture's limits suitable guards shall be provided for the protection of personal on all exposed rotating and / or moving machine parts and shall be designed for easy installation and removal for maintenance purpose. The spare equipment(s) shall be installed at designated locations and tested for healthiness.

The Contractor shall apply oil and grease of the proper specification to suit the machinery, as is necessary for the installation of the equipment. Lubricants used for installation purposes shall be drained out and the system flushed through where necessary for applying the lubricant required for operation. The Contractor shall apply all operational lubricants to the equipment installed by him.

All oil, grease and other consumables used in the Works/ Equipment shall be purchased in India unless the Contractor has any special requirement for the specific application of a type of oil or grease not available in India. In such is the case he shall declare in the proposal, where such oil or grease is available. He shall help purchaser in establishing equivalent Indian make and Indian Contractor. The same shall be applicable to other consumables too.

3.3 SURFACE FINISH

All interiors and exteriors of tanks, control cubicles and other metal parts shall be thoroughly cleaned to remove all rust, scales, corrosion, greases or other adhering foreign matter. All steel surfaces in contact with insulating oil as far as accessible, shall be painted with not less than two coats of heat resistant, oil insoluble, insulating paints.

All metal surfaces exposed to atmosphere shall be given two primer coats of zinc chromate and two coats of epoxy paint with epoxy base thinner. All metal parts not accessible for painting shall be made of corrosion resisting material. All machine finished or bright surfaces shall be coated with a suitable preventive compound and suitably wrapped or other wise protected. All paints shall be carefully selected to withstand tropical heat and extremes of weather within the limit specified. The paint shall not scale off or wrinkle or be removed by abrasion due to normal handling. All external painting shall be as per shade no. 697 of IS:5.

3.4 PACKING

The following details are to be clearly indicated in the material forwarding documents:

- a) Name and address of the consignee.
- b) Purchase order number.
- c) Name of supplier/s.
- d) Description of equipment / material.
- e) Net weight.
- f) Gross weight.

All the equipments shall be suitably protected, coated, covered or boxed and crated to prevent damage or deterioration during transit, handling and storage at Site till the time of erection. On request of the purchaser, the Contractor shall also submit packing details/associated drawing for any equipment material under his scope of supply, to facilitate the purchaser to repack any equipment/ material at a later date, in case the need arises. Any material found short inside the

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packing cases shall be supplied by the supplier without any extra cost. The cases containing easily damageable material shall be very carefully packed and marked with appropriate caution symbol i.e. fragile, handle with care, use no Hooks etc.

3.5 QUALITY

BHEL quality plan to be followed subject to TBEM / customer's approval.

3.6 DOCUMENTATION

3.6.1 LIST OF DOCUMENTS

The bidder shall submit a detailed list of drawings / documents along with the bid proposal which he intends to submit to the Employer after award of the contract.

The supplier shall necessarily submit all the drawings / documents unless any thing is waived.

All engineering data submitted by the Contractor after final process including review and approval by the Employer shall form part of the Contract Document and the entire works performed under this specification shall be performed in strict conformity, unless otherwise expressly requested by the Employer in Writing.

3.6.2 DRAWINGS

All drawings submitted by the Contractor including those submitted at the time of bid shall be in sufficient detail to indicate the type, size, arrangement, material description, Bill of Materials, weight of each component, break-up for packing and shipment, the external connections, fixing arrangement required, the dimensions required for installation and interconnections with other equipments and materials, clearances and spaces required for installation and interconnection between various portions of equipments and any other information specifically requested in the specifications.

Each drawing submitted by the Contractor shall be clearly marked with the name of the Employer, name of consultant, the unit designation, contract no. , and the name of the Project .If standard catalogue pages are submitted, the applicable items shall be indicated therein. All titles, noting, markings and writings on the drawing shall be in English. All the dimensions should be in metric units.

Further work by the Contractor shall be in strict accordance with these drawings and no deviation shall be permitted without the written approval of the Employer if so required.

All manufacturing and fabrication work in connection with the equipment prior to the approval of the drawing shall be at the Contractor's risk. The Contractor may make any changes in the design which are necessary to make the equipment conform to the provisions and intent of the Contract and such changes will again be subject to approval by the Employer. Approval of Contractor's drawing or work by the Employer shall not relieve the contractor of any of his responsibilities and liabilities under the Contract.

3.6.3 APPROVAL PROCEDURE

The scheduled dates for the submission of these as well as for, any data/information to be furnished by the Employer would be discussed and finalised at the time of award. The supplier

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shall also submit required no. of copies as mentioned in this specification of all drawings/design documents/test reports for approval by the Employer. The following schedule shall be followed generally for approval.

i.	Approval/comments/by employer on Initial submission	Within 2 weeks of receipt
ii.	Resubmission	Within 2 (two) weeks (whenever from date of comments required) Including both ways postal time.
iii.	Approval or comments	Within 2 weeks of receipt of resubmission
iv.	Furnishing of distribution copies	2 weeks from the date of last approval.

Note: The contractor may please note that all resubmissions must incorporate, all comments given in the submission by the Employer failing which the submission of documents is likely to be returned. Every revision shall be a revision number, date and subject, in a revision block provided in the drawing, clearly marking the changes incorporated.

The title block of drawings shall contain the following information incorporated in all contract drawings. Please refer enclosed sheet for details of Title block.

3.6.4 DOCUMENTS TO BE SUBMITTED ALONGWITH OFFER

- 1) Drawings
- 2) Guaranteed Technical Particulars
- 3) Type Test Reports
- 4) Manufacturing Quality Plan

3.6.5 DOCUMENTATION SCHEDULE

S. No.	DESCRIPTION	TENDER STAGE	CONTRACT STAGE FOR APPROVAL		FINAL DOCUMENTATION	
			Prints		Prints	CDs
1.	Drawings and Data Sheets	1	6		21	7 nos of all drawings/documents
2.	Drawings "As Built "	-	-		21	
3.	Type Test Reports	1	6		21	
4.	Erection Manuals	-	6		21	
5.	Operation and Maintenance Manuals	-	6		21	
6.	Manufacturing Quality Plan	1	6		21	
7.	Field Quality Plan	1	6		21	
8.	Inspection Test Reports	-	-		21	

Soft copies of drawings at contract stage shall also be submitted in **PDF format**.

Drawings will also be submitted in mini cartridges in AUTOCAD Release -14 package or any other CAD package along with conversion files for all major items. Final Documentation shall be submitted in bound volumes with Customer & Project etc. written on top.

GUARANTEED AND TECHNICAL PARTICULARS OF MS FLAT

S. No.	PARTICULARS	DATA
1)	Manufacturer's name	
2)	Chemical composition & grade	
3)	Thickness (mm)	
4)	Width (mm)	
5)	Cut length (m)	
6)	Weight of flat (kg/m)	
7)	Applicable standards	

---XX---

SECTION - 5

CHECK LIST FOR MS FLAT

Put a tick mark (√) in 'YES/NO' Column if the specified requirement is met, or put a (X) mark, if the specified requirement is not met and give comments in the "Remarks" column.

S. No.	Parameters	Specified Requirement	Yes/No	Remarks
1.	Chemical composition & mechanical properties	Grade –A(Item designation –Fe410W) of IS :2062		
2.	Size	As per BOQ		
3.	Cut Length	4 m to 6 m		
4.	Minimum yield strength of MS flat	2550kg/sq cm		
5.	Packing	As per cl. No. 10 of section -2		