



BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HIGH PRESSURE BOILER PLANT
PURCHASE DEPARTMENT - FOSSIL BOILERS
THIRUCHIRAPALLI - 620014
TAMILNADU (INDIA)

PHONE :0431-2577938
GRAMS : BHARATELEC
FAX NO: 0431-2520719
E-mail: tvenkat@bheltry.co.in
Web:

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Enquiry No	Enquiry Date	Due Date for Quotation
2681700023 - 79	20.10.2017	16.11.2017
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. Bid should be submitted in two parts. 1.Techno-commercial bid (Part-I) and 2.Price bid(Part-II) in a separate sealed cover and both covers must be placed in a third cover and sealed. Our Enquiry No., Enq. date & Enq. Due date must be written on all three covers.		

Item	Description	Unit	Quantity	Delivery Quantity	Schedule Date
10	4-line 400A DSL System Supply for Bay 1D Supply of 4-line Shrouded Conductor 400A DSL System for Bay 1D - Requirements as per the Annexure - IA technical specification	SET	1.000	1.00	20.01.18
20	Commissioning -400A DSL System for Bay1D Erection and Commissioning of 4-line 400A shrouded Conductors system for Bay 1D as in Annexure-IIA	SET	1.000	1.00	20.01.18
30	4-line 250A DSL System Supply for Bay A Supply of 4-line 250A Shrouded Conductor DSL System for Bay A - Requirements as per the Annexure - IB technical specification	SET	1.000	1.00	20.01.18
40	Commissioning -250A DSL System for Bay A Erection and Commissioning of 4-line 250A shrouded Conductors system for Bay A as in Annexure-IIB	SET	1.000	1.00	20.01.18
50	4-line 250A DSL System Supply for Bay B Supply of 4-line 250A Shrouded Conductor DSL System for Bay B - Requirements as per the Annexure - IC technical specification	SET	1.000	1.00	20.01.18
60	Commissioning-250A DSL System for Bay B Erection and Commissioning of 4-line 250A shrouded Conductors system for Bay B as in Annexure-IIC	SET	1.000	1.00	20.01.18

General Note:

GENERAL NOTE:PLEASE SUBMIT YOUR OFFER IN "TWO PART BID SYSTEM" AS PER THE ANNEXURES ENCLOSED . ENCLOSURES:ANNEXURE A & B
All the tenders may be addressed to the following address:

**The Tender Opening Cell / MM
Room No: 26, Building 24, Ground Floor**

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening.Late and delayed offers are liable to be rejected.

Yours faithfully,
For BHARAT HEAVY ELECTRICALS LIMITED

V. CHELLIAH
Sr. Manager / Purchase
FOSSIL BOILERS
MM / RM / CP & SP
BHEL, TRICHY - 620 014.



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**Bharat Heavy Electricals Limited
TIRUCHIRAPALLI 620014**

In case personal delivery of the offer, it shall be dropped into the respective box kept in Room No: 26, after duly entering the data in the system.

Offers will be accepted only up to 14.00 Hrs on the due date. Therefore, vendors shall ensure to submit the offers well before this time. All due date extension requirements should be addressed to the respective Purchase mail IDs. All the due date extension requests from vendors will be considered only up to 48 hours before the due date and time.

Vendors are requested to avoid submission of offers through e mail / fax. In case of any unavoidable situation, offers shall be sent through e mail to the following mail ID only
tender_cell@bheltry.co.in.

As tenders are being opened by Common Tender Opening Cell, offer covers should be sealed with tenderer's distinctive seal and super scribed with correct Tender No. item of supply and due date of opening.

The offers will be opened at 14.30 hrs on the due date of the tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

The bidder along with its associate/ collaborators/ sub-contractors/ sub-vendors/ consultants/ service providers shall strictly adhere to BHEL fraud prevention policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.

The supplier shall submit EI/EII forms to BHEL time to time as indicated by the BHEL and in case of inordinate delay in issuing EI/EII forms, then BHEL reserves the right to deduct 5% of the value of the supplied items against which EI/EII forms pending to be issued

Enclosures:

"LD clause has to be confirmed without fail."

The offers should reach us 30 minutes before the time of opening of tenders.
The offers will be opened at 14.30 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

Yours faithfully,
For **BHARAT HEAVY ELECTRICALS LIMITED**

V. CHELLIAH
Sr. Manager / Purchase
MANAGER / PURCHASE
FOSSIL BOILERS
BHEL TRICHY 620 014.

BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPALLI
CAPITAL PURCHASE

Annexure-A

ACCEPTANCE OF COMMERCIAL TERMS AND CONDITIONS BY THE INDIGENOUS VENDORS.

(This should be essentially filled in and sent along with the techno-commercial offer without fail. If this check list is not filled and submitted along with techno-commercial offer (Part I) or if the vendor does not confirm acceptance to the terms and conditions proposed, BHEL reserves the right to reject such offer)

CHECK-LIST FOR INDIAN VENDORS

Sl. No.	DESCRIPTION
1.	❖ The Bidders shall submit their offer through Two part sealed cover.<u>Part I - Technical and Commercial Bid</u>: This should contain all the copies of technical bid together with un-priced commercial bid. ❖ <u>Part II - Price Bid</u>: This part should contain the schedule of price particulars and must be co-related to the technical details provided in Part I. Offers will be accepted & received till 14.00 Hr. on the due date. Therefore Vendors shall ensure to submit the offers before this time. Late offers will not be considered. Bidders are requested to refer to attached "DSC Guidelines" & "e Proc Vendor Communication" for submission of tender through EPS. Offers should be in ENGLISH and accompanied by detailed technical literature, catalogue and detailed dimensional drawings in ENGLISH or otherwise, the offers will not be considered. In case of necessity BHEL reserves the right to go for a reverse auction (RA) instead of opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions covering RA are given in this Annexure- A (Point No.19).
2.	<u>OPENING OF TENDERS:</u> The Part I - Technical & commercial bid alone would be opened on the Tender opening date at Tender opening cell, 24 building, BHEL, Trichy. The Part II - Price bid of technically suitable Bidders alone would be opened through EPS. The Technically Suitable Bidders would be informed about the Price Bid opening date through e-mail / EPS. Clarifications if any required by BHEL for Technical evaluation would be sought from bidders before opening of Part II - Price bid.
3.	<u>Taxes and Duties</u> All Taxes and Duties payable as extra to the quoted price should be specifically stated in offers along with CST & TIN No / Tariff No. etc., failing which the purchaser will not be liable for payment of such Taxes and Duties. Our TIN No. 33243560005, TNGST No. 3560005, CST. No. 239383 Dt. 11-06-1991 & BHEL ECC No. AAACB4146PXM012, Service Tax Registration No (STC)- AAACB4146PST006. Assessment circle Tiruverambur.
4.	<u>Special Provisions for Micro and Small Enterprises (MSE)</u> 20% of the tendered quantity is earmarked for MSE suppliers in this tender. - Out of the 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs. - In case MSE vendor participating in the tender quotes within the price band of L1+15%, they will be allowed to supply the portion of the requirement subject to acceptance of L1 price by MSE vendor. In case of more than one such MSE, the supply shall be shared proportionately. - MSE suppliers can avail the intended benefits only if they submit along with offer, attested copies of either EM II (Entrepreneur Memorandum Part II) certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed as per Annexure - C) applicable for the relevant financial year (latest audited), certifying quantum of investment in plant and 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. Offer/s received without these documents will lead to consideration of their offer at par with other bidders and MSE status of such suppliers shall be shifted to Non MSE supplier.

No row shall be left blank. Please indicate NA, in case the item is "Not Applicable"	Vendor's confirmation
5. Validity: Validity of the offer should be 120 days from the date of tender opening.	
6. Release of Purchase Order: ➤ Purchase Orders will be released on successful L-1 vendor on single package basis. ➤ Separate orders for supply & service will be released on the successful L-1 vendor. (Service order released only in the case of, Installation / erection / commissioning portion are applicable on tender scope & quoted separate charge for same by vendor).	
7. Payment Terms for supply Portion: a) 80% of payment will be released after receipt & acceptance of supplied material. b) Balance 20% of payment will be released within 45-90 days after receipt, acceptance & commissioning of supply materials against submission of 10% PBG for a Warrantee period of 18 Months.	
Installation & Commissioning Portion (if applicable only): 100% of the installation / commissioning charges (in case contract involves erection / installation / commissioning) shall be paid only on completion of such erection / commissioning at BHEL, Tiruchirapalli.	
Any deviation in the above payment term will attract loading as mentioned below. "Base rate of SBI (as applicable on the date of bid opening. Techno commercial bid opening in case of two part bids) + 6% shall be considered for loading for the period of relaxation sought by bidders.	
8. Performance Bank Guarantee (PBG): The bidder in the event of an order, should furnish a Bank Guarantee from an Indian Bank approved by BHEL, at no extra cost in a format prescribed by BHEL, along with the order, for an amount equivalent to 10% (Ten percent) of the value of the contract. The PBG shall be valid for a period of 18 months from the date of despatch or 12 months from the date of receipt / acceptance / commissioning of equipment at BHEL, Tiruchirapalli whichever is more, with a claim period of two months. The Performance Bank Guarantee shall be obtained from any one of the following banks which is a member bank in our consortium of Banks: List of Consortium Banks DEUTSCHE BANK, HDFC BANK, ANZ GRINDLAYS BANK, CITI BANK, STANDARD CHARTERED BANK, BANK OF AMERICA, ABN AMRO BANK, IDBI LTD, ICICI BANK LTD, THE HONGKONG & SHANGHAI BANKING CORPORATION LTD. List of Nationalised Banks ALLAHABAD BANK, ANDHRA BANK, BANK OF INDIA, BANK OF BARODA, BANK OF MAHARASHTRA, BHARAT OVERSEAS BANK, CANARA BANK, CENTRAL BANK OF INDIA, CORORATION BANK, DENA BANK, INDIAN BANK, INDIAN OVERSEAS BANK, ORIENTAL BANK OF COMMERCE, PUNJAB NATIONAL BANK, PUNJAB & SINDH BANK, STATE BANK OF INDIA, STATE BANK OF TRAVANCORE, STATE BANK OF MYSORE, STATE BANK OF BIKANER & JAIPUR, STATE BANK OF HYDERABAD, STATE BANK OF PATIALA, STATE BANK OF MAHARASHTRA, STATE BANK OF SOURASTHRA (SBI-13.09.08), SYNDICATE BANK, UCO BANK, UNION BANK OF INDIA, UNITED BANK INDIA, VIJAYA BANK. <u>If PBG is issued by foreign counter part of the BHEL consortium Indian Bank, in case of claim against the PBG, it will be lodge in any one of the Indian counters of the Foreign Bank which issued the PBG.</u>	
9. Liquidated Damages (LD): The delivery of the goods specified in the purchase order should be made within the time prescribed. LD for delay in 'Supply' and/or 'E&C' will be applicable to the delays attributed to vendor. LD will be considered separately for 'Delivery' and 'E&C'. Where the seller supplies or dispatches the goods, beyond the delivery period Liquidated damages shall be applicable 0.5% of the total order value per week or part thereof subject to a maximum of 10% of the total order value. Detail of LD mode are shown below Single Delivery Date (Material Dispatched after Due date) Once the delivery due date is crossed, bills have to be clubbed till final despatch and forwarded for processing of payment as a single bunch. LD percentage will be calculated from Delivery due date to final despatch date. (100% Order should be completed for processing the bill) Staggered Delivery LD shall be 0.5% of the undelivered portion per week of the delay or part thereof subject to a maximum of 10% of the total order value. PO Pending value (each Bill Value) up to Max 10 % of Total PO value) <i>Any deviation from the above LD clause, loading will be applied to the extent to which it is not agreed by the bidder (at offered value). For the purpose of Imposing LD, the FOB delivery (B/L date) shall be considered. Bidder should indicate the LD mode (single delivery or staggered delivery) on the confirmation column, otherwise single delivery date will be considered for further evaluation</i>	
10. Risk Purchase: Alternatively the purchaser at his option will be entitled to terminate the contract and to purchase elsewhere at the risk and cost of the seller either the whole of the goods or any part which the supplier has failed to deliver or despatch within the time stipulated as aforesaid or if the same were not available from the best and the nearest available substitute. The supplier shall be liable for any loss which the Purchaser may sustain by reason of such risk purchases.	
11. Delivery Terms and evaluation process: Indian Bidders should submit their offer for FOR-BHEL, Tiruchirapalli basis . Packing & Forwarding and Freight & Insurance charges from works to BHEL, Tiruchirapalli to be indicated separately if extra from basic rate. Applicable % of GST, HSN Code / SAC code should be clearly indicated. Evaluation of offers shall be on the basis of delivered cost (Net cash outflow to BHEL-Trichy).	

Bharat Heavy Electricals Limited TIRUCHIRAPPALLI/CAPITAL PURCHASE**Annexure-A**

12.	Guarantee: Vendors shall provide a guarantee for a period of 12 months from the date of commissioning of the equipment or 18 months from date of supply, whichever is earlier. The date of B/L or AWB shall be taken as the date of supply. <u>Offers from vendors not accepting the requested guarantee period will be rejected.</u>	
13.	Short shipment / Warranty replacement: In case of any short shipment in the main equipment / spares, customs duty levied on such supplies, shall be borne by the supplier. Any warranty replacement during the warranty period shall be on FOR-BHEL, Tiruchirappalli basis.	
14.	Inspection & Testing: All goods shall be subject to inspection by BHEL or its authorized representatives at supplier's works or at BHEL stores or at any other place in India indicated by BHEL as the case may be. The supplier will not charge for the facilities provided for inspection of goods. In case of machine tools, the machine would be inspected and proved at supplier's works prior to dispatch however, final inspection and acceptance of the machine will be carried after installation of the machine at BHEL, Tiruchirappalli.	
15.	Test certificates / Operating and Maintenance manuals : The Bidders shall clearly mention in their offer, that Test Certificates and Operating Maintenance Manuals, etc., as called for in the Technical Specification, in the required number of copies will be provided at no extra cost.	
16.	Payment through Bank is not preferred. In case of Payment through Bank is opted by Supplier, BHEL prefers documents submission through bank with copy of LR and door delivery of Goods to Site/Stores with Consignee copy attached. In this case Loading will be 3% on the offered value. Offers of indigenous Suppliers with payment terms as LC/Advance Payment are liable for rejection.	
17.	BHEL will consider the ranking after the loading is applied as referred above wherever deviations are observed.	
18.	If offers are received from both OEM/ Manufacturer and authorized Dealer or Agent, then offer submitted by OEM/ Manufacturer will only be considered, offer of Dealer or Agent will be ignored.	
19.	Reverse Auction (RA): 1. BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer 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 RA. Techno-commercially acceptable Bidders shall only be eligible to participate in the Reverse Auction. 2. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). 3. The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates. 4. If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com). 5. As a reminder to the bidders, system will flash following message (in RED Colour) during the course of 'online sealed bid' - "Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL". 6. BHEL shall engage the services of a Service Provider, who shall extend all necessary training and assistance before commencement of ON-LINE-BIDDING through Internet, at NO extra-cost to the Bidders. Eligible Bidders shall be informed in writing, about the details of Service Provider, to enable Vendors to contact the Service Provider and get trained. Event Date, Time, Start Price, Bid Decrement, Time-Extensions, etc. shall also be communicated through the Service Provider for compliance by Bidders. 7. BHEL shall provide the calculation sheet through the Service Provider, which shall be helpful to arrive at "TOTAL COST to BHEL", like Packing and Forwarding Charges, Taxes and Duties, Freight Charges, Insurance, Service Tax and other loading factors (for non-compliance to BHEL Standard Commercial Terms and Conditions), for each of the Bidder, to enable them to fill in the price and keep it ready for inputting data during the RA. 8. Successful bidder shall be required to submit the final prices (L1) in prescribed format for price breakup including that of line items, if required, quoted during the Online Reverse Auction, duly signed and stamped as token of acceptance without any new condition to the Service Provider, within 2 working days of RA without fail. 9. Any variation between the final bid value and that in the confirmatory signed price breakup document will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings (as available on www.bhel.com). 10. 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 results of the RA scrapped / aborted. 11. In case BHEL decided to go for Reverse auction, the H-1 bidder(s) (whose quote is highest in the online sealed bid) may not be allowed to participate in further Reverse Auction.	
20.	ARBITRATION: All disputes or differences whatsoever which may arise at any time during execution of the Contract shall be mutually settled by BHEL and Contractor as per provision of the Contract. However, in the event such disputes cannot be settled mutually, such disputes shall be settled as per the Arbitration and reconciliation Act, 1996 of the Govt. of India and its subsequent amendments. In case of disputes with the Central PSUs, the same shall be settled at Tiruchirappalli as per the Guidelines of the Govt. of India. However, during the period such disputes are settled either by mutual discussions between the parties or by legal means, Contractor shall continue to do the work as per terms & conditions of Contract.	

Bharat Heavy Electricals Limited TIRUCHIRAPPALLI/CAPITAL PURCHASE**Annexure-A**

21.	➤ Point to point confirmation for the Technical Specification enclosed to be provided. If there are any deviations, the same should be clearly specified. Offers received without confirmation to our specifications will be liable for rejection. If needed additional sheets shall be used. ➤ Equipment offered shall be "New". Re-built / Re-conditioned / Used equipment's will not be accepted. Incomplete offers will not be considered for further processing. ➤ BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at any of BHEL projects / units. ➤ BHEL shall be at liberty to reject or accept any tender, part or in full, at their own discretion and any such action is not liable for any question or claim against BHEL. ➤ The vendor shall provide necessary drawings, Test Certificates and Operating Maintenance Manuals etc., as called for in the Technical Specification, in the required number of copies at no extra cost ➤ The Supplier shall arrange for securely protecting and packing the stores to avoid loss or damages during transit.		
22.	Company Details & Contact		
	Full Address of the company for future correspondence / placing order. (Copy of address proof & PAN card shall be attached along with Part-I)		
	Company Email ID:	Phone No.:	
	Fax No	Pan No with copy	
	GSTIN No	HSN Code	
	Name of the contact person:	Mobile No.:	
	e-mail ID		
23.	TO BE CONFIRMED BY VENDOR		
	Country of origin: *		
	Station of dispatch / Port Of Shipment		
	Delivery Terms: FOR Destination basis		
	Packing & Forwarding Charges in % or Lump sum, if extra from basic rate		
	% of GST		
	(If applicable only) Installation & Commissioning charge is inclusive (or) exclusive on basic rate.		
	% of GST for I&C portion (extra or Not)		
	Freight & Transit insurance charges (if any, in Lump sum OR percentage) from Dispatching station to BHEL Tiruchirapalli.		
24.	DELIVERY SCHEDULE: Supply Portion: Delivery schedule from the date of Letter of Intent / Purchase Order. (This should be inclusive of Order acceptance, drawing approval and time period required for receiving goods at BHEL Trichy etc. Time period required for Installation / Erection & Commissioning from date of site clearance given by BHEL, Trichy.		
25.	Weight & Cubage of package: Approximate Net weight of the total consignment: Approximate Gross weight of the total consignment: Approximate volume of the total consignment:		
For any queries / clarifications the bidders may contact us through our FAX NO. +91 431 2520719 or through e-mail <akumar@bheltry.co.in>			

NOTE:-

- a) Your specific acceptances to our Payment terms, LD, Risk Purchase Clause are essential for consideration of your offer. Otherwise your offer is liable for rejection.
- b) No row shall be left blank. Please indicate NA, in case the item is "Not Applicable"

Declaration:-

We have gone through and understood the 'General guidelines & instructions to bidders for submitting offer' enclosed as a part of the Tender and confirm that our offer has been made in line with the same.

(AFFIX OFFICIAL SEAL HERE)

Signature with date:

Name:

Designation:

Department:

(Please Affix Your Signature with Seal on Each Page)

Certificate by Chartered Accountant

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.5.0.1722(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 for Micro / Small (Strike off which is not applicable) Category under MSMED Act 2006.

Date:

(Signature)

Name -

Membership Number -

Seal of Chartered Accountant

Annexure-B**Bharat Heavy Electricals Limited TIRUCHIRAPPALLI/CAPITAL PURCHASE****MODEL PRICE BID FORMAT FOR INDIAN BIDDERS**

Enquiry No. & Date:

Bidder's Offer No. & Date:

Sl. No.	Description of item	Unit (Set / No.)	QTY	Basic Rate / Qty. in Rs. (excluding all Taxes)	ED in %	VAT / CST in % (TNGST with FORM-17 or CST with C-Form)	Service Tax in %	Total Value in Rs. (Including all taxes & duties)
10	Supply Portion							
20	Installation and Commissioning Charges for Sl. No: 10 (if available in tender scope and exclusive from basic rate for supply portion)							
	Total Value in Words:							
	Packing & Forwarding charges (if any) in percentage (or) Lump sum							
	FOR Dispatching station value in Rs.							
	Percentage of Freight & Transit insurance charges, if any (Lumpsum or %) Freight & Insurance charges from Dispatching station to HPBP-BHEL, Trichy.							
	Approximate Net weight of the total consignment							
	Approximate Gross weight of the total consignment							
	Approximate Dimensions of the Consignment							

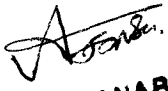
Signature & Seal of Vendor

The price bid should be submitted only as per the above format. No row shall be left blank. Please indicate NA, in case the item is "Not Applicable".

PART- A : PRE- QUALIFICATION CRITERIA

The BIDDER / VENDOR has to compulsorily meet all the following requirements to get qualified for consideration of the technical offer for the SUPPLY OF SHROUDED CONDUCTOR SPARES FOR EOT CRANES. If the vendor does not qualify as per PRE- QUALIFICATION CRITERIA, the technical offer of such BIDDER(s) / VENDOR(s) offer will not be evaluated.

S. No.	REQUIREMENTS	VENDOR's COMMENTS
1	The BIDDER(s) / VENDOR(s) shall be a Manufacturer or an Authorised dealer of Shrouded busbar system. In case of dealers, valid authorisation certificate from the manufacturer for supply of the below mentioned items in Part-B mentioning the enquiry number should to be submitted along with offer, failing which the offer will not be considered.	
2	The BIDDER(s) / VENDOR(s) shall have a minimum three years of Continuous Experience in the field of Shrouded Busbar system supply of 250A or above. The BIDDER / VENDOR should necessarily attach a document (purchase order copy) supporting the above experience.	
3	The supplier has to submit the original test certificate for the items from the Manufacturer at the time of supply of the materials. Only on the receipt of the test certificate from the Manufacturer payment will be processed.	
4	Any Deviations in technical specification may lead to rejection of the offer.	
5	The reference List of Customers shall be accompanied with the details (Phone Number /E-Mail ID) of the CONTACT PERSON for cross reference by BHEL,	


R. SARAVANABHAVAN
Maintenance Engineer
Maintenance & S
BHEL, TRICHY - 620 014.

Annexure – I (A)

Technical Specification For 4-line DSL Shrouded Conductor system required for EOT cranes Bay-1D / Bldg.1

Preamble:

BHEL trichy HPBP complex -Bldg 1 Bay 1D has 4 cranes.

Presently the old DSL system is vertical mounted.

The New vertical 400 A Copper DSL system has to be erected above the existing system.

The system would be fed 415 V power supply.

All catalogues and detailed technical literature has to be attached in the enquiry.

OEM Test certificates of Copper acceptance purity level and strength shall be produced at the time of Supply.

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
1	4-LINE SHROUDED CONDUCTOR DSL SYSTEM FOR EOT CRANES		
1.1	Total requirement	400Amps. – 300 Mtrs Copper conductor R,Y, B & G – each 300 Mtrs	
1.2	Type of Installation	Vertical Mounting	
1.3	Material	Copper	
1.4	Current Rating	400Amps	
1.5	System voltage	415V AC	
1.6	Standard length	4.5 mtrs Appx.	
1.7	Insulation	PVC	
1.8	Protection	IP21	
1.9	Conductor joint	Four bolted type	
1.10	Insulation cover	Red, Yellow, Blue & Green Colors	
1.11	Support Pitch	1000 mm (Appx.)	
1.12	Hanger clamp	4 Pole type	
1.13	Expansion joint arrangements	1 set	
1.14	Anchor clamps arrangement	6 sets	
1.15	Minimum pitch of Conductors	40 mm	
1.16	Conductor minimum cross Sectional area	90 sq mm	
1.17	Conductor minimum thickness	1.4 mm	
1.18	Ambient temp.	Suitable for 50°C Ambient Temperature rise.	
1.19	Power feeding	2 Nos of power feeding at 2 different locations for reducing drop.	
1.20	Make	Only safetrack / safeline / silverline / NBM / Safelink is acceptable. Other makes are liable for rejection.	
2	CURRENT COLLECTOR		
2.1	Total requirement	250Amps Current collector ---- 32 Nos.	
2.2	Current rating	250 Amps	
2.3	Current Collector Type	Sliding contact with sufficient Contact pressure while on Movement	


R. SARAVANABHAVAN
Maintenance Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
2.4	Tolerance in Collector movement	For 250Amp Current collector: Horizontal +/-200 mm & Vertical +/- 60 mm	
2.5	Mounting bracket	40/25 mm Hollow section square bar	
2.6	Shoe Holder Material	NYLON / ABS	
3	CURRENT COLLECTOR SHOE		
3.1	Total requirement	250A Current Collector Shoe ---- 32 Nos	
3.2	Current rating	250A	
4	SCOPE OF SUPPLY		
4.1	Shrouded Conductor	The 400Amps Shrouded Conductor set shall be supplied as per serial number 1.1	
4.2	Angle support	The Angle support – 350 Nos ,Hanger clamp – 350 Nos for mounting the conductor shall be supplied. Excess quantity will be used as spare.	
4.3	Accessories for Shrouded Conductor fitting	The required quantity of Conductor joints, Anchor Clamps, Centre power feed assembly, Expansion joints, Joint Cover, End Termination Joints , isolation arrangements & End Covers shall be supplied.	
4.4	Current Collector	250Amps Current collector – 32 Nos as mentioned in the current collector specifications.	
4.5	Current Collector Shoe	250Amps Current collector Shoe – 32 Nos as mentioned in the current collector shoe specifications.	
4.6	Accessories For Current Collector Fitting	The required Quantity of Current collector mounting bracket [40/25 mm square box] shall be supplied for fitting 32 nos of current collector for 4 EOT Crane (10 Nos of Current Collector Mounting Bracket)	
4.7	Tools	The required special tools if any and manual for Installation and Maintenance shall be supplied.	


 For and on behalf of the
 Director, BHEL
 Bhopal
 Date: 10/06/2019

Annexure – II (A)

S no	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
5.0	ERECTION AND COMMISSIONING		
5.1	Location	Bldg.1/BHEL /Trichy Plant	
5.2	Installation	The DSL system shall be installed horizontally as per drawing M&S - PD -17-003.	
5.3	Manpower	Suppliers scope	
5.4	Welding machine with accessories	Suppliers scope	
5.5	Gas cutting set with accessories	Suppliers scope	
5.6	Tools and tackles	Suppliers scope	
5.7	Power (Electricity)	Free supply by BHEL	
5.8	All consumables like welding electrode, oxy-acetylene gases etc.	Suppliers scope	
5.9	Personal Protective Equipments	Suppliers scope	
5.10	Remarks	- Any other requirement for erection and commissioning shall be clearly indicated by the supplier during technical discussion itself. - The old current collector assembly has to be disconnected and new Current collector assembly connection with new DSL system for each crane (total 4 cranes) is supplier's scope. - Any temporary platforms required for E&C is in suppliers scope. Necessary materials will be provided by BHEL. - The power cable laying between DSL line and main switch, termination is supplier's scope.(Cable ,lugs BHEL scope). - The Power connection between new DSL system and Each crane SFU is Supplier's scope. - The Alignment and levelling of new DSL system is Supplier's scope. - The supplier has to carry out the erection in a full swing in such a way that work has to be completed without affecting Bay production activities.	


R. SARA VANABHAVAN
 Maintenance Engineer
 Maintenance & Services
 BHEL, TRICHY - 520 014.

		8. New DSL working condition will be observed. On satisfactory performance of new DSL , old DSL will be removed. Removal of old system is BHEL scope. 9. Attached sketch/drawing shall be referred. 10. Supplier shall visit the site area before quoting.	
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REQUIREMENT SUMMARY:

Bay 1D

1. 400A COPPER SHROUDED CONDUCTOR WITH ALL ACCESSORIES -----300 MTRS
2. 250A CURRENT COLLECTOR ASSEMBLY WITH ALL ACCESSORIES -----32 NOS
3. INSTALLATION OF 400A COPPER SHROUDED CONDUCTOR AS MENTIONED IN THE SPECIFICATION ----- 300 MTRS

NOTE: ORDER TO BE PLACED FOR THE ITEMS 10 AND 20 TO A SINGLE VENDOR.


R. SARAVANABHAVAN
 Maintenance Engineer
 Maintenance & Services
 BHEL, TIRUCHY - 620 014.

Annexure – I (B)

Technical Specification For 4-line DSL Shrouded Conductor system required for EOT cranes Bay-A BLDG50

Preamble:

BHEL trichy HPBP complex -Bldg 50 Bay A has 5 cranes.

Presently the old DSL system is vertical mounted.

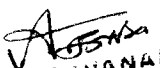
The New horizontal 250 A Copper DSL system has to be erected below the existing system.

The system would be fed with 415 V power supply.

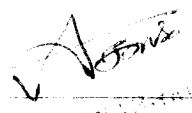
All catalogues and detailed technical literature has to be attached in the enquiry.

OEM Test certificates of Copper acceptance purity level and strength shall be produced at the time of Supply.

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
1	4-LINE SHROUDED CONDUCTOR DSL SYSTEM FOR EOT CRANES		
1.1	Total requirement	250Amps. – 330 Mtrs Copper conductor R,Y, B & G – each 330 Mtrs .	
1.2	Type of Installation	Horizontal Mounting	
1.3	Material	Copper	
1.4	Current Rating	250Amps	
1.5	System voltage	415V AC	
1.6	Standard length	4.5 mtrs Appx.	
1.7	Insulation	PVC	
1.8	Protection	IP21	
1.9	Conductor joint	Four bolted type	
1.10	Insulation cover	Red, Yellow, Blue & Green Colors	
1.11	Support Pitch	1000 mm (Appx.)	
1.12	Hanger clamp	4 Pole type	
1.13	Expansion joint arrangements	1 set	
1.14	Anchor clamps arrangement	4 sets	
1.15	Minimum pitch of Conductors	40 mm	
1.16	Conductor minimum cross Sectional area	66 sq mm	
1.17	Conductor minimum thickness	1.0 mm	
1.18	Ambient temp.	Suitable for 50°C Ambient Temperature rise.	
1.19	Expansion Joint	Expansion Joint of 2 meters length - 2 sets	
1.20	Make	Only safetrack / safeline / silverline / NBM / Safelink is acceptable. Other makes are liable for rejection.	


R. SANKARANARAYANAN
Maintenance Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
2	CURRENT COLLECTOR ASSEMBLY		
2.1	Total requirement	125Amps Current collector Assembly -40 Nos.	
2.2	Current rating	125 Amps	
2.3	Current Collector Type	Sliding contact with sufficient Contact pressure while on Movement	
2.4	Tolerance in Collector movement	For 125Amp Current collector: Horizontal +/-200 mm & Vertical +/- 60 mm	
2.5	Mounting bracket	40/25 mm Hollow section square bar	
2.6	Shoe Holder Material	NYLON / ABS	
3	CURRENT COLLECTOR SHOE		
3.1	Total requirement	125A Current Collector Shoe -40 Nos.	
3.2	Current rating	125A	
4	SCOPE OF SUPPLY		
4.1	Shrouded Conductor	The 250 Amps Shrouded Conductor set shall be supplied as per serial number 1.1	
4.2	Accessories (Mounting brackets, Hanger clamps & Links with joint covers)	Mouning brackets – 700 Nos ,Hanger clamp – 700 Nos for mounting the conductor , links with covers - 400 nos shall be supplied. Excess quantity will be used as spare.	
4.3	Accessories for Shrouded Conductor fitting	The required quantity of Conductor joints, Anchor Clamps, Centre power feed assembly, Expansion joints, Joint Cover, End Termination Joints & End Covers shall be supplied.	
4.4	Current Collector	125Amps Current collector – 40 Nos with all arrangements as mentioned in the current collector specifications.	
4.5	Current Collector Shoe	125Amps Current collector Shoe – 40 Nos as mentioned in the current collector shoe specifications.	
4.6	Accessories For Current Collector Fitting	The required Quantity of Current collector mounting bracket [40/25 mm square box] shall be supplied for fitting 80 nos of current collector for 5 EOT Crane (12 Nos of Current Collector Mounting Bracket)	
4.7	Tools	The required special tools if any and manual for Installation and Maintenance shall be supplied.	



 PROJECT ENGINEER
 PROJECT NO. 12345
 DATE: 10/10/2023

Annexure – II (B)

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
5.0	ERECTION AND COMMISSIONING		
5.1	Location	Bldg.50 Bay A /BHEL /Trichy Plant	
5.2	Installation	The DSL system shall be installed horizontally as per drawing M&S - PD -17-004.	
5.3	Manpower	Suppliers scope	
5.4	Welding machine with accessories	Suppliers scope	
5.5	Gas cutting set with accessories	Suppliers scope	
5.6	Tools and tackles	Suppliers scope	
5.7	Power (Electricity)	Free supply by BHEL	
5.8	All consumables like welding electrode, oxy-acetylene gases etc.	Suppliers scope	
5.9	Personal Protective Equipment's	Suppliers scope	
5.10	Remarks	- Any other requirement for erection and commissioning shall be clearly indicated by the supplier during technical discussion itself. - The old current collector assembly has to be disconnected and new Current collector assembly connection with new DSL system for each crane (total 10 cranes) is supplier's scope. - Any temporary platforms required for E&C is in suppliers scope. Necessary materials will be provided by BHEL. - The power cable laying between DSL line and main switch, termination is supplier's scope.(Cable ,lugs BHEL scope). - The Power connection between new DSL system and Each crane SFU is Supplier's scope. - The Alignment and levelling of new DSL system is Supplier's scope. - The supplier has to carry out the erection in a full swing in such a way that work has to be completed without affecting Bay production activities.	

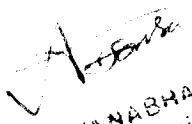
		8. New DSL working condition will be observed. On satisfactory performance of new DSL , old DSL will be removed. Removal of old system is BHEL scope. 9. Attached sketch/drawing shall be referred. 10. Supplier shall visit the site area before quoting.	
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REQUIREMENT SUMMARY:

Bay A

1. 250A COPPER SHROUDED CONDUCTOR WITH ALL ACCESSORIES -----330 MTRS
2. 125A CURRENT COLLECTOR ASSEMBLY WITH ALL ACCESSORIES -----40 NOS
3. INSTALLATION OF 250A COPPER SHROUDED CONDUCTOR AS MENTIONED IN THE SPECIFICATION ----- 330 MTRS

NOTE: ORDER TO BE PLACED FOR THE ITEMS 30 AND 40 TO A SINGLE VENDOR.


R. SARAVANABHAVAN
 Maintenance Engineer
 Maintenance & Services
 BHEL Trichy - 620 012.

Annexure – I (C)

Technical Specification For 4-line DSL Shrouded Conductor system required for EOT cranes Bay-B BLDG50

Preamble:

BHEL trichy HPBP complex -Bldg 50 Bay B has 5 cranes.

Presently the old DSL system is vertical mounted.

The New horizontal 250 A Copper DSL system has to be erected belowh the existing system.

The system would be fed with 415 V power supply.

All catalogues and detailed technical literature has to be attached in the enquiry.

OEM Test certificates of Copper acceptance purity level and strength shall be produced at the time of Supply.

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
1	4-LINE SHROUDED CONDUCTOR DSL SYSTEM FOR EOT CRANES		
1.1	Total requirement	250Amps. – 390 Mtrs Copper conductor R,Y, B & G – each 390 Mtrs .	
1.2	Type of Installation	Horizontal Mounting	
1.3	Material	Copper	
1.4	Current Rating	250Amps	
1.5	System voltage	415V AC	
1.6	Standard length	4.5 mtrs Appx.	
1.7	Insulation	PVC	
1.8	Protection	IP21	
1.9	Conductor joint	Four bolted type	
1.10	Insulation cover	Red, Yellow, Blue & Green Colors	
1.11	Support Pitch	1000 mm (Appx.)	
1.12	Hanger clamp	4 Pole type	
1.13	Expansion joint arrangements	1 set	
1.14	Anchor clamps arrangement	5 sets	
1.15	Minimum pitch of Conductors	40 mm	
1.16	Conductor minimum cross Sectional area	66 sq mm	
1.17	Conductor minimum thickness	1.0 mm	
1.18	Ambient temp.	Suitable for 50°C Ambient Temperature rise.	
1.19	Expansion Joint	Expansion Joint of 2 meters length - 2 sets	
1.20	Make	Only safetrack / safeline / silverline / NBM / Safelink is acceptable. Other makes are liable for rejection.	


R. SARAVANAN
Maintenance Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
2	CURRENT COLLECTOR ASSEMBLY		
2.1	Total requirement	125Amps Current collector Assembly -40 Nos.	
2.2	Current rating	125 Amps	
2.3	Current Collector Type	Sliding contact with sufficient Contact pressure while on Movement	
2.4	Tolerance in Collector movement	For 125Amp Current collector: Horizontal +/-200 mm & Vertical +/- 60 mm	
2.5	Mounting bracket	40/25 mm Hollow section square bar	
2.6	Shoe Holder Material	NYLON / ABS	
3	CURRENT COLLECTOR SHOE		
3.1	Total requirement	125A Current Collector Shoe -40 Nos.	
3.2	Current rating	125A	
4	SCOPE OF SUPPLY		
4.1	Shrouded Conductor	The 250 Amps Shrouded Conductor set shall be supplied as per serial number 1.1	
4.2	Accessories (Mounting brackets, Hangar clamps & Links with joint covers)	Mounting brackets – 800 Nos , Hanger clamp – 800 Nos for mounting the conductor , links with covers -400 nos shall be supplied. Excess quantity will be used as spare.	
4.3	Accessories for Shrouded Conductor fitting	The required quantity of Conductor joints, Anchor Clamps, Centre power feed assembly, Expansion joints, Joint Cover, End Termination Joints & End Covers shall be supplied.	
4.4	Current Collector	125Amps Current collector – 40 Nos with all arrangements as mentioned in the current collector specifications.	
4.5	Current Collector Shoe	125Amps Current collector Shoe – 40 Nos as mentioned in the current collector shoe specifications.	
4.6	Accessories For Current Collector Fitting	The required Quantity of Current collector mounting bracket [40/25 mm square box] shall be supplied for fitting 80 nos of current collector for 5 EOT Crane (12 Nos of Current Collector Mounting Bracket)	
4.7	Tools	The required special tools if any and manual for Installation and Maintenance shall be supplied.	


K. SARAVANABHAVAN
 Maintenance Engineer
 Maintenance & Services
 BHEL, TRICHY - 620 014.

Annexure – II (C)

S.No	PARTICULARS	BHEL SPECIFICATION	VENDORS TECHNICAL OFFER (With complete details)
5.0	ERECTION AND COMMISSIONING		
5.1	Location	Bldg.50 Bay B /BHEL /Trichy Plant	
5.2	Installation	The DSL system shall be installed horizontally as per drawing M&S - PD -17-005.	
5.3	Manpower	Suppliers scope	
5.4	Welding machine with accessories	Suppliers scope	
5.5	Gas cutting set with accessories	Suppliers scope	
5.6	Tools and tackles	Suppliers scope	
5.7	Power (Electricity)	Free supply by BHEL	
5.8	All consumables like welding electrode, oxy-acetylene gases etc.	Suppliers scope	
5.9	Personal Protective Equipment's	Suppliers scope	
5.10	Remarks	- Any other requirement for erection and commissioning shall be clearly indicated by the supplier during technical discussion itself. - The old current collector assembly has to be disconnected and new Current collector assembly connection with new DSL system for each crane (total 10 cranes) is supplier's scope. - Any temporary platforms required for E&C is in suppliers scope. Necessary materials will be provided by BHEL. - The power cable laying between DSL line and main switch, termination is supplier's scope.(Cable ,lugs BHEL scope). - The Power connection between new DSL system and Each crane SFU is Supplier's scope. - The Alignment and levelling of new DSL system is Supplier's scope.	


 A. Srinivas
 Sr. Instrument Engineer
 Instrumentation & Services
 BHEL, TRICHY - 620 011.

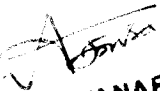
		7. The supplier has to carry out the erection in a full swing in such a way that work has to be completed without affecting Bay production activities. 8. New DSL working condition will be observed. On satisfactory performance of new DSL , old DSL will be removed. Removal of old system is BHEL scope. 9. Attached sketch/drawing shall be referred. 10. Supplier shall visit the site area before quoting.	
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REQUIREMENT SUMMARY:

Bay B

1. 250A COPPER SHROUDED CONDUCTOR WITH ALL ACCESSORIES -----390 MTRS
2. 125A CURRENT COLLECTOR ASSEMBLY WITH ALL ACCESSORIES -----40 NOS
3. INSTALLATION OF 250A COPPER SHROUDED CONDUCTOR AS MENTIONED IN THE SPECIFICATION ----- 390 MTRS

NOTE: ORDER TO BE PLACED FOR THE ITEMS 50 AND 60 TO A SINGLE VENDOR.


R. SARAVANABHAVAN
 Maintenance Engineer
 Maintenance & Services
 BHEL, TRICHY - 620 014.

ALL DIMENSIONS ARE IN MILLIMETRES

M&S-PD-17-004

DRAWING NO:

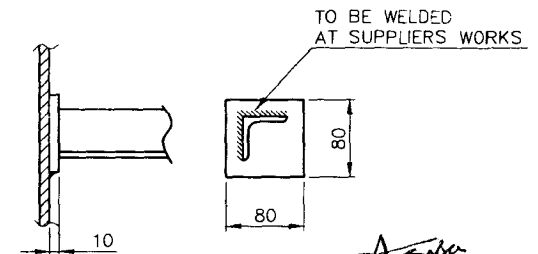
0000+

EXISTING OLD DSL LINES

CRANE CABIN

NOTE:

1. X & Y DIMENSION TO BE FURNISHED BY THE TENDERER IN THE TECHNICAL OFFER.
2. DSL SUPPORT SHALL BE NOT LESS THAN ISA 40x40
3. TOTAL BAY LENGTH IS 330M



DETAIL-A

R. SARAVANABHAVAN
Maintenance Engineer
Maintenance & Services
BHEL, TRICHY - 620 014.

ISA 40x40x400L

NEW DSL LINES PROPOSED
INSTALLATION IN HORIZONTAL POSITION

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ITEM NO	DESCRIPTION	DRAWING NO	MATL CODE	UNIT WT
			MATL SPEC	QTY
EQPT: CRANE GIRDER WITH DSL SYSTEM				
Bharat Heavy Electricals Ltd HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRN	NAME C.PONNUSAMY	SIGNATURE <i>C. Ponnusamy</i>
		CHD	G.GOVINDARAJ	<i>G. Govindaraj</i>
		APPD	P.AYYAMPERUMAL	<i>P. Ayyamperumal</i>
DEPT M&S	GRADE OF UNTOL DIM IS: 2102	SCALE 1:5	WEIGHT (Kg)	REF TO ASSY DWG NO
CODE 2597	φ/M/F			REF TO OLD DWG NO
TITLE GEN ARRANGEMENT OF DSL SHROUDED COPPER CONDUCTOR (BLDG 50 / BAY-A)			CARD CODE U 01	DRAWING NO : M&S-PD-17-004
				REV 00

REV	DATE	ALTERED	CHECKED	APPROVED
ZONE				

A3-SIZE

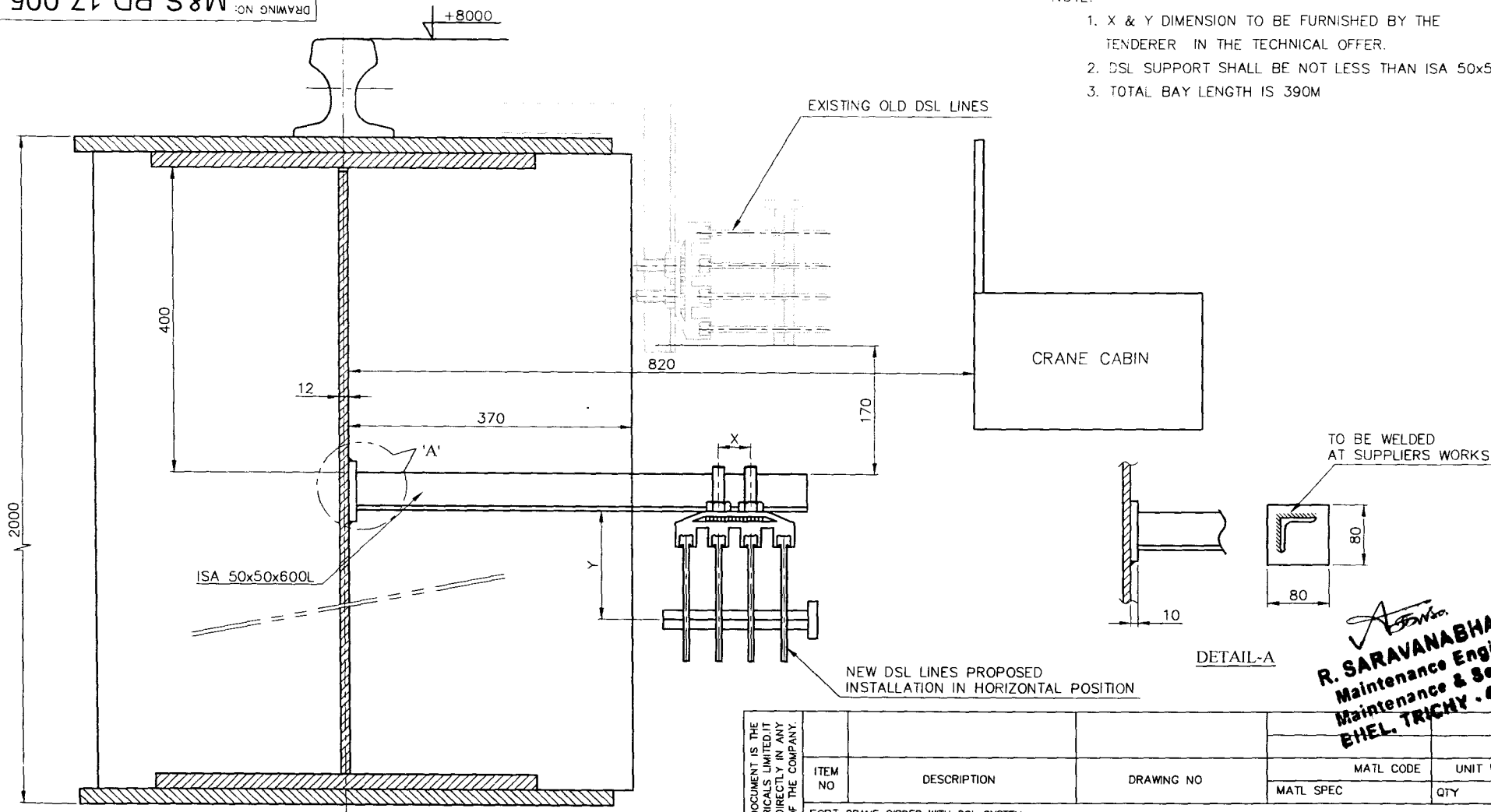
M&S-PD-17-005

DRAWING NO:

ALL DIMENSIONS ARE IN MILLIMETRES

NOTE:

1. X & Y DIMENSION TO BE FURNISHED BY THE TENDERER IN THE TECHNICAL OFFER.
2. DSL SUPPORT SHALL BE NOT LESS THAN ISA 50x50
3. TOTAL BAY LENGTH IS 390M

NEW DSL LINES PROPOSED
INSTALLATION IN HORIZONTAL POSITION

DETAIL-A

R. SARAVANABHAVAN
Maintenance Engineer
Maintenance & Services
EHEL, TRICHY - 620 014

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MUST NOT BE USED DIRECTLY OR INDIRECTLY IN ANY
WAY DETRIMENTAL TO THE INTEREST OF THE COMPANY.

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