

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

This Format is to be submitted in original duly signed and stamped 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 will not be accepted.

Sr. No	ENQUIRY NO. 237E149 DUE ON 18 – OCTOBER – 2017	DATED 08 – SEPTEMBER – 2017
1.	INSTRUCTION TO BIDDERS: 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. 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. <u>Location of Tender Box:</u> Bharat Heavy Electricals Limited, Transmission Business Group, Advant Navis Business park, Tower A 5 th Floor, 7 , Sector- 142, Greater Noida Expressway, UP -201305 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. d) Bids are to be submitted in Two parts: 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. ii) Bidder to strictly ensure submitting the price bids in BHEL format of Rate Contract or as per project requirement. 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. Futher in case of difference between unit rate & total price, unit rate in words shall prevail over total price. 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. e) “BHEL reserves the right to go for Reverse Auction instead of Opening the submitted sealed bid, which will be decided after technical evaluation”. e) Bids are to be submitted in Two parts: i) Techno-commercial bid (Part-I): A copy of price bid (Part-II) “without prices” is also to be enclosed in Part-I bid.	

Sr. No	ENQUIRY NO. 237E149 DUE ON 18 – OCTOBER – 2017 DATED 08 – SEPTEMBER – 2017
	ii) Bidder to strictly ensure submitting the price bids in BHEL format. iii) Price bid (Part-II): To be submitted only in one copy separately. 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. f) <u>For any Technical Clarification, please contact:</u> SHRI SAROJ KUMAR, SR. MANAGER / TBEM SHRI RAKESH SINGH, AGM / TBEM BHARAT HEAVY ELECTRICALS LIMITED TRANSMISSION BUSINESS GROUP TOWER A, 5TH FLOOR, ADVANT NAVIS IT BUSINESS PARK, PLOT NO-7, SECTOR-142, EXPRESSWAY NOIDA, NOIDA-201305, DISTT- GAUTAM BUDH NAGAR, UP, INDIA Phone : 0120-06748527, 8125 E-mail : sarojkumar@bhel.in / rakesh.singh@bhel.in <u>For any Commercial Clarification, please contact:</u> SH. P. V. SHAIN, AGM (TBMM) / HIMANSHU KANASKAR, MANAGER (TBMM) BHARAT HEAVY ELECTRICALS LIMITED TRANSMISSION BUSINESS GROUP TOWER A, 5TH FLOOR, ADVANT NAVIS IT BUSINESS PARK, PLOT NO-7, SECTOR-142, EXPRESSWAY NOIDA, NOIDA-201305, DISTT- GAUTAM BUDH NAGAR, UP, INDIA Phone : 0120 - 6748140 / 0120 – 6748532 / 0120 - 6748460 Email: shain@bhel.in / kanaskar@bhel.in / abhinavgupta@bhel.in g) Price bid should not contain any information / description / terms & condition other than given in Part-I of the bid except prices, otherwise bid is liable for rejection. 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. With-drawl of quotation by the bidder, at any stage after its opening, may entail blacklisting of vendor. i) Authorized signatory should authenticate tender documents. Documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder. j) Enquiry shall also be uploaded in the CPP portal.
2.	PRICES: <u>The Prices shall remain FIRM during contract period .</u> <u>Project Status</u> : DOMESTIC Hence, GST is applicable as per Cl. 2 (g.). The prices are to be quoted on "Ex works basis" i. e. the Transportation shall be arranged by BHEL – TBG from Bidder's works. The loading of Material in Trailers at Bidder's Works to be arranged by Bidder. The Transportation Cost by BHEL will

Sr. No	ENQUIRY NO. 237E149 DUE ON 18 – OCTOBER – 2017	DATED 08 – SEPTEMBER – 2017
	however be added to the Cost of Bidders to arrive at Landed Cost to BHEL. The Rate Contract Rates which will be used for loading are : a) Rs. 3.75/MT/KM- (Rs. Three and Seventy Five Paisa only) per MT per KM. Freight Escalation Clause is applicable on Freight Rates. The base freight rates for mechanical trailers would increase/decrease by 50% of percentage increase/ decrease in the rates of diesel prevailing over the base rate on 14.07.2017 in Delhi as mentioned below. Any increase/decrease so allowed will be added to or subtracted from the basic freight rate. This increase/decrease will be computed as on 5th of every month and rates will be valid for that particular calendar month. The rate of diesel will be based on the rates obtained from PSU oil companies applicable to New Delhi. Freight increase on any other account will not be permissible. The Base Rates of Diesel Prices prevailing on the date of 14.07.2017 in City of Delhi are Rs. 54.66/Litre. The Final Date for calculation of Freight Escalation will be Techno-Commercial Bid opening date for this Tender for MS Rod. b) Distance will be taken as shortest route exhibited in Motoring Guide of India. c) Minimum Chargeable distance shall be 100 Kms even if the delivery destination is less than 100 Kms. d) Transportation shall be done by trailers only. Minimum transportable weight will be 22 MT. If qty is less than this minimum transportable weight then payment of F&I shall be made for minimum transportable weight i.e. for 22 MT. e) Project Location is given in Annexure to enquiry. The prices shall be quoted by the vendors considering following The prices are to be quoted on Ex-works basis. The break-up of prices shall be as under : - f) Ex-works Price: Ex- works price including packing & forwarding charges and charges for Loading in Trailers arranged by BHEL - TBG for Transportation. g) GST : GST Rates as applicable along with HSN Code is to be quoted extra as percentage in both un-priced and price bid. h) Entry tax / Octroi Charges: NOT APPLICABLE. i) Freight & Insurance: IN BHEL - TBG Scope. (Bidders to note the Loading Criteria mentioned above for determining L1 Bidder) j) Type Test charges: NOT APPLICABLE. Note: i) The purchase order shall be placed on Ex – Works basis. “BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.	

Sr. No	ENQUIRY NO. 237E149 DUE ON 18 – OCTOBER – 2017	DATED 08 – SEPTEMBER – 2017
	In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'online sealed bid' in the Reverse Auction. Non-submission of 'online sealed bid' by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue." (Further to above clause, please refer attached Annexure I for Terms & Conditions Of Reverse Auction Page 1 & 2) <u>RA guidelines is also on BHEL website (www.bhel.com)</u>	
3.	<u>TERMS OF PAYMENT:</u> 100 % Payment with Taxes, Duties, Freight & Insurance within 60 days (45 Days for MSE vendor) from the date of receipt of complete invoice with following documents in 3 sets (Original + 2 copies): - LR duly endorsed in the name of customer by BHEL site NOT APPLICABLE - Receipt of material on the attached format by BHEL site NOT APPLICABLE - GST Compliant TAX invoice. - Delivery Challan or Packing list (case wise) NOT APPLICABLE - Transit insurance certificate from under writers or Copy of Intimation of Transit Insurance duly endorsed by under writers NOT APPLICABLE - MICC. - Guarantee Certificate. - Copy of Performance Bank Guarantee. NOT APPLICABLE [A.] Documents to be furnished by vendor immediately after dispatch: - Copy of Invoice - Copy of LR - Copy of Delivery Challan / Packing List - Copy of Insurance Certificate - Copy of Guarantee Certificate [B.] Following Documents to be sent by vendor to TBG, BHEL : - LR duly endorsed in the name of customer by BHEL site NOT APPLICABLE - Receipt of material on the attached format by BHEL site NOT APPLICABLE - GST Compliant TAX invoice. - Delivery Challan or Packing list (case wise) NOT APPLICABLE - Transit insurance certificate from under writers or Copy of Intimation of Transit Insurance duly endorsed by under writers NOT APPLICABLE - Dispatch Clearance / MICC - Guarantee certificate - All Test & Inspection Reports	
4.	<u>INTEREST LIABILITY:</u> In case of any delay in payment due to any reason, BHEL shall not pay any interest on delayed payment.	
5.	<u>GUARANTEE :</u> The equipment / material shall be guaranteed for 18 months from the date of delivery or 12 months from the date of commissioning, which ever is earlier. The defective material / component shall be replaced free of cost at site.	

Sr. No	ENQUIRY NO. 237E149 DUE ON 18 – OCTOBER – 2017	DATED 08 – SEPTEMBER – 2017
6.	BANK GUARANTEE: NOT APPLICABLE	
7.	FINAL ENGINEERING DOCUMENTATION: NOT APPLICABLE	
8.	INSPECTION: BHEL and / or customer / third party may inspect the Equipment / Material before despatch. In the event BHEL / Customer waives off inspection, Test Reports and Results shall be submitted for Approval. Supplier shall obtain Approval on Test Reports and MDCC / MICC (Material Inspection Clearance Certificate) before dispatch of equipment. Stage inspection during manufacturing may also be carried out. Material to be dispatched only after getting Dispatch Clearance from BHEL. Supplier shall send inspection call on prescribed format only, with an advance notice of 15 days. (New Format of Inspection Call attached with this Enquiry).	
9.	DESPATCH DOCUMENTS: Following despatch documents are to be immediately sent to purchaser on despatch. - Copy of Invoice - Copy of LR - Copy of Delivery Challan / Packing List - Copy of Insurance Certificate - Copy of Guarantee Certificate	
10.	DELIVERY REQUIREMENT: Proposed delivery plan is 30 JUNE 2017. However, vendor has to quote their best possible delivery plan in activity schedule to meet the tender delivery requirement. In case, BHEL's delivery requirement is not met by vendor(s), then a chance may be given to all such vendors to review their quoted delivery schedule in line with BHEL's delivery requirement. However, if vendor fails to meet the requisite delivery plan, then BHEL reserves the right not to consider the offer of such vendor(s). Note: LR date or Invoice date whichever is later shall be considered as delivery date. However, Delay by BHEL's Transporter in placing the vehicles will not be to Bidder's account.	
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 there-of 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 tender 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.to tender are liable for rejection. However, BHEL, at its discretion, may load the prices for evaluation of offer as mentioned at Cl. No. - 25.	
16.	QUANTITY VARIATION : + / - 20%, during contract stage as well as completion	

Sr. No	ENQUIRY NO. 237E149 DUE ON 18 – OCTOBER – 2017	DATED 08 – SEPTEMBER – 2017
	of execution of purchase order.	
17.	<u>ARBITRATION:</u> All cases of disputes emanating from and relating to this contract shall be referred to the sole arbitrator appointed by Unit Head / GM, BHEL. The arbitrator may be an employee of BHEL whether serving or retired or any other person nominated by Unit Head/GM BHEL. The arbitration shall be in accordance with 'The Arbitration and Conciliation Act 1996' and the rules there under as amended from time to time. 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.	
18.	<u>LEGAL SETTLEMENT:</u> All disputes shall be subject to jurisdiction of court situated in Delhi/New Delhi only. Notwithstanding contained herein anything in this NIT, the original exclusive jurisdiction shall remain of the court at Delhi / New Delhi.	
19.	<u>SUBCONTRACTING:</u> 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.	
20.	<u>RISK PURCHASE:</u> 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 to BHEL of the successful bidder.	
21.	<u>ADJUSTMENT OF RECOVERY:</u> Any amount payable by the supplier under any of the condition of this contract shall be liable to be adjusted against any amount payable to the supplier 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.	
22.	<u>FORCE MAJEURE CONDITION:</u> Force Majeure will mean: Circumstances beyond the control of contracting parties such as but not limited to act of God, natural catastrophes, fire, war, embargo, industrial dispute, riot, civil commotion, restrictions etc. Vendors willing to plead force majeure shall inform its effect on fulfilment of contract and shall not be held responsible for non performance in such circumstances.	
23.	<u>DEMURRAGE / WHARFAGE:</u> For the reasons of delay in receipt of documents from suppliers or due to the same being found to be incomplete, and/or faulty, the suppliers shall be responsible to reimburse in all demurrages / wharfages, if any, paid by BHEL (for stated reasons).	

Sr. No	ENQUIRY NO. 237E149 DUE ON 18 – OCTOBER – 2017	DATED 08 – SEPTEMBER – 2017
24.	SPECIAL CONDITION: Procurement will be from manufacturers only. Manufacturers should submit offers directly. However in case of involvement of any representative the details of the same along with the copy of the agreement should be submitted in the first part of the offer. Principal manufactures must ensure that the nominated representative do not represent any other manufacture for the same item.	
25.	LOADING CRITERIA FOR DEVIATIONS TAKEN BY BIDDER ON: <u>25.1 : 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>25.2 : 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.	
26.	"MSE suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM 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 at Annexure -1 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents are not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer. "	
27.	"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."	
28.	Non-TBG Vendors shall submit their credentials (Supplier Registration Form on the Online Supplier registration Portal) for registration in TBG with permanent code and the offer of this vendor shall be considered subject to registration with permanent code in TBG, before price bid opening or conducting RA. Vendors who are not approved in TBG PMD for specific category as per requirement (refer Schedule of Price) shall submit their credentials (Supplier Registration Form on the Online Supplier registration Portal) for registration in BHEL TBG for specific category and the offers of these vendor shall be considered subject to their registration in specific category, before price bid opening or conducting RA. Offer of techno – commercially acceptable vendors shall be considered for Price Bid Opening / RA subject to their approval from Customer.	

Sr. No	ENQUIRY NO. 237E149 DUE ON 18 – OCTOBER – 2017	DATED 08 – SEPTEMBER – 2017
29.	PRE QUALIFYING CRITERIA FOR OPEN TENDER : Bidder must meet following requirement : 1. Bidder must be manufacturer of 40mm dia MS ROD. 2. Bidder must have produced at least 1000MT of 40mm dia or higher MS Rod in a single financial year in any one of last 3 financial years.	
30.	Final acceptance of bidder's offer is subjected to Customer approval of bidder. The Vendors will be intimated regarding their qualification along with intimation for Price Bid opening / RA. Price Bid shall be opened only for Customer Approved Vendors.	

Signature of Bidder
Seal

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

ANNEXURE TO GTC OF ENQUIRY NO. 237E149 DATED 08 – SEPTEMBER - 2017
DUE ON 18 – OCTOBER - 2017

REVERSE AUCTION GUIDELINES

“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.

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).

*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.***

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).”

As a reminder to the bidders, system will flash following message (in RED Color) 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”



TENDER ENQUIRY NO. 237E149 DATE : 08 – SEPTEMBER – 2017
DUE DATE : 18 – OCTOBER - 2017

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:.....

TENDER ENQUIRY NO. 237E149 DATE : 08 – SEPTEMBER – 2017
DUE DATE : 18 – OCTOBER - 2017

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.

Signature of the authorized representative of

Place: -

Bidder's Name:.....

Date: -

Designation:.....
Company Seal:.....

TENDER ENQUIRY NO. 237E149 DATE : 08 – SEPTEMBER – 2017
DUE DATE : 18 – OCTOBER - 2017

PAGE 01 TO 01
BHEL/TBG/ATS/01

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 AT THE EARLIEST. Bidders to quote their best Delivery Plan in this schedule.

Signature & Seal of
Supplier
Date:



BHARAT HEAVY ELECTRICALS LIMITED

TRANSMISSION PROJECTS ENGINEERING MANAGEMENT

DOCUMENT No.	TB-235-509-039 TB-235-509-039	REV 02	Prepared	Checked	Approved
TYPE OF DOC.	EQUIPMENT SPECIFICATION	NAME	D.K.Mandal	Manoj Kumar	Satish Nayar
TITLE STANDARD SPECIFICATION FOR M.S.ROD		SIGN	Sd/-	Sd/-	Sd/-
		DATE	14.07.04	15.07.04	15.07.04
		GROUP	TBEM	W.O. No	
CUSTOMER					
PROJECT					
LOA No.					

CONTENTS

DETAILS

Sheets

Check list for information to be submitted with offer	1
SECTION 1	1
Scope, Specific technical requirements and quantities	
SECTION 2	2
Equipment Specification	
SECTION 3	1
Project details & General Specification	
SECTION 4	1
Guaranteed technical particulars	
CHECK LIST	1
STANDARD QUALITY PLAN	1

02	26.11.12				Standard Quality plan included
01	31.10.12	Sd/-	Sd/-	Sd/-	ASTM A576 has been included and cut length requirement revised.
Rev No.	Date	Altered	Checked	Approved	REVISION DETAILS
Distribution				To	
				Copies	

5

Doc No : TB 235 509 039
Rev No : 02

SECTION - 1

SCOPE SPECIFIC TECHNICAL REQUIREMENTS AND QUANTITIES

1.0 SCOPE

This technical specification covers the design, manufacture, testing at works and despatch (As applicable) of M.S. ROD, required for the under ground earthing system.

- 1.1** The M.S. Rod shall be of length 6 m to 12 m.
- 1.2** The rod shall comply with the technical requirements brought out in Section-2 of the specification.
- 1.3** The enclosed standard quality plan has to be followed.

It may be noted that no deviations from specification shall be acceptable and length of MS Rod must be in the range as specified above.

SECTION - 2

EQUIPMENT SPECIFICATION

2.1 GENERAL

This section covers the general technical requirements of MS Rod. In case of any discrepancies between the requirements mentioned in this section and those specified in other sections of this specification, the latter shall prevail and shall be treated as binding requirement.

2.2 APPLICABLE STANDARDS

The conductor to be supplied shall conform to the following Indian Standards :

Specification for Rolling : IS: 1852:1985
And cutting tolerance for
Hot Rolled Steel Products

Steel for General Structural : IS: 2062-2011
Purposes

Round & Square Bars for : IS: 1732-1989
General Engg. Purposes

Standard Specification for
Steel bars, carbon hot wrought
Special Quality : ASTM A576-90b

Note: Latest revisions of all the mentioned standards have to be followed.

2.3 TECHNICAL REQUIREMENTS

- 2.3.1 The material to be supplied shall comply with the requirements specified for Grade-A designation Fe410WA of IS 2062-2011 or grade SAE1018 as per ASTM A576-90b.

The material shall be in sound condition of recent manufacture. The finished product shall be adeptly and cleanly rolled to the dimension and sections specified. The finished material shall be free from defects, loose mill scale, slag, fillings, rust etc. The rod shall be manufactured by hot rolled process.

2.4 TESTS

The material shall be subject to all the routine tests as per IS: 2062-2011/ASTM A576-90b. Enclosed Quality plan shall be followed for witnessing/conducting of tests.

3

Doc No : TB 235 509 039
Rev No : 01

SECTION 3

PROJECT DETAILS AND GENERAL SPECIFICATION

As applicable for various projects



Doc No : TB 235 509 039
Rev No : 01

SECTION 4

GUARANTEED TECHNICAL PARTICULARS

1. Nominal Diameter :
2. Material grade :
3. Finish :
4. Tolerance :

SECTION – 3

GENERAL TECHNICAL REQUIREMENTS

3.0 FOREWORD

The provisions under this section are intended to supplement general requirements for the materials, equipment's and services covered under other sections.

3.1 PROJECT INFORMATION AND SYSTEM PARAMETERS

- a) Customer : M/s Tamil Nadu Transmission Corporation Limited
- b) Project Title : 765/400KV AIS SUB STATION AT ARIYALUR
- c) Transport facilities : Road/Rail

Physical and other parameters:

3.1.1 Location of the substation

- 3.1.2 Nearest Railway station : Tindivanam
Railway : Southern
Railway

3.1.3 Meteorological data

- (i) Atmosphere : Polluted
- (ii) Maximum ambient temperature : 50°C
- (iii) Minimum ambient temperature : 20°C
- (iv) Maximum daily average **amb**ient air temperature : 45° C
- (v) Maximum yearly average ambient air temperature : 32° C
- (vi) Maximum Humidity (%) : 100%

BHARAT HEAVY ELECTRICALS LTD.
TRANSMISSION BUSINESS GROUP - MATERIAL MANAGEMENT
UNPRICED BID

PROJECT : TANTRANSCO ARIYALUR

ITEM : 40 MM DIA M.S.ROD

ENQUIRY NO : 237E149 Dated : 08 - SEPTEMBER - 2017

DUE ON : 18 - OCTOBER - 2017

SL. NO.	DESCRIPTION OF ITEM	HSN CODE	UNIT	QUANTITY [MT]	Unit Ex-works [Rs.]	Total Ex-Works [Rs.]	GST @ _____ % on Total Ex-Works [Rs.]	TOTAL AMOUNT (Rs.) A = (7 + 8)
1	2	3	4	5	6	7 [= 5 * 6]	8	9
1	MS ROD 40 MM DIAMETER - AS PER STANDARD TECHNICAL SPECIFICATION TB-235- 509-039 R2.	72283019	MT	998.72				
TOTAL				998.72 MT				

LOADING AS DETAILED IN NIT CLAUSE 2. (Page 2, 3 of 8) - AS PER BHEL TRANSPORTATION RATE CONTRACT RATES / TRANSPORTATION RATES AS INTIMATED BEFORE PRICE BID OPENING	B [Not to be Quoted.]
TOTAL COST TO BHEL (Landed Cost of Material at Site) INCLUDING LOADING FOR TRANSPORTATION RATES	= A + B

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.