

BHARAT HEAVY ELECTRICALS LIMITED

(A Government of India Undertaking)
HEAVY PLATES AND VESSELS PLANT
PURCHASE DEPARTMENT
VISAKHAPATNAM - 530012
ANDHRA PRADESH(INDIA)

Contact Ph No :0891-6681350
Fax :
Email :mpsnmurthy@bhel.in
Web : hpvp.bhel.in

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	Enquiry No (Coll-No)	Enquiry Date	Due Date for Quotation
	H232100006	22.02.2021	04.03.2021
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. <i>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.</i>			

Item	Description	Unit	Quantity	Delivery Quantity	Delivery Date
10	180 DEG PIPE BEND OF OD 51 X 3.6 THK. 156252330000 MATERIAL SHALL BE PROCURED AS PER THE DRAWING NO:4-19-154-U8341/REV 0.ENDS SHALL BE BE PROTECTED SUITABLY BEFORE DISPATCH FROM VENDOR WORKS.RAW MATERIAL SHALL MEET THE TECHNICAL REQUIREMENTS OF TDC:TDC:0:102 Rev:17. PAINTING DETAILS:SURFACE PREPARATION:SSPC-SP2/SP3-HAND TOOL/POWER CLEANING.PRIMER COAT:RED OXIDE ZINC PHOPSHATE DIP/BRUSH COAT PRIMER TO IS 12744.DFT:30 MICRONS/COAT.NO OF COATS:2.TOTAL DFT:60(MIN)	NO	64.000	64.00	19.06.21

General Note:

1. Raw material should be as per TDC:0:102 Rev.17
2. RA is not applicable to this enquiry
3. Estimation is category- A
4. Vendor has to submit signed and stamped copies of the enquiry, Commercial Terms and Conditions (CTC), Special Terms and Conditions (STC), Technical Delivery Conditions (TDC), Drawing, Price Schedule, Latest MSE UAM or Udyam Certificate along with offer.

5. Vendor has to submit quotation in TWO PART BID (PART I- Techno Commercial & Unpriced Bid, PART II - Priced Bid).

The tender completed in all respects shall be submitted through email latest by 14.00 Hrs. (IST) on the due date (04.03.2021) duly mentioning the tender number, description and date in the email subject.

Part-I: Techno-Commercial Bid along with unpriced copy of Price

The offers should reach us before 14:00 hrs on the due date of opening of the tender. The offers will be opened after 15.00 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**

[Signature] 21/01/2021

एम.पी.एन.मूर्ति/M.P.S.N. MURTHY
उप प्रबन्धक (एमपी सीपी-विधि)
Dy. MANAGER (MP-Misc)

EMEL, HPVP, VISAKHAPATNAM-530 012



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schedule shall be submitted to email id: technicalbid-hpvp@bhel.in
duly mentioning the tender number, description and date in the
subject.

Part-II: Priced Bid shall be submitted to email id:
pricebid-hpvp@bhel.in duly mentioning the tender number, description
and date in the subject.

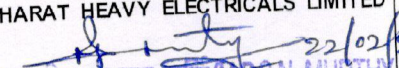
BHEL-HPVP is not responsible for any delays in submission of offers.
Offers received in any other form will not be accepted.

Enclosures:

1. Commercial Terms and Conditions - Annexure-A
2. Special Terms and Conditions
3. Price Schedule
4. TDC: 0:102 Rev.17
5. Drg. No.: 4-19-154-U8341

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the tender. The offers will be opened after 15.00 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


एम.पी.एस.एन.मूर्ति/M.P.S.N. MURTHY

उप प्रबन्धक (एमपी सीपी-विविध)

Dy. MANAGER (MP-Misc)

बीएचईएल, एचपीवीपी, विशाखपट्टणम-530 012

BHEL, HPVP, VISAKHAPATNAM-530 012

COMMERCIAL TERMS AND CONDITIONS (For Indigenous Suppliers)
(To be filled in full and to be submitted along with offer)

ANNEXURE-A

Email Enquiry No: H232100006 (For Supply of CS 180 Degree Pipe Bends)

SL. NO.	DESCRIPTION	BHEL REQUIREMENT	SUPPLIER COMMENTS
1	PAYMENT	Payment term is 100% payment within 45 days from the date of receipt and acceptance of materials at BHEL. However, GST portion of invoice shall be released only upon: i) Vendor declaring the invoice in their GSTR-1. ii) Receipt of Goods and Tax Invoice by BHEL. iii) Confirmation of payment of GST thereon by vendor on GSTN Portal. Any deviation in the above payment term will attract loading as mentioned below. "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 bidder") <u>Note: Offers with Payment against Proforma Invoice/Advance payment/LC are liable to be rejected.</u>	
2	DELIVERY PERIOD	The acceptable Delivery period shall be within 10 weeks from the date of Purchase Order to the date of LR/Invoice whichever is later. <u>Loading Factor:</u> The offers which do not conform to 10 weeks of delivery period shall be loaded for the delayed delivery beyond 10 weeks @ 0.5% per week or part thereof on the offered basic value. <u>Any offer quoting beyond 10 weeks of delivery period shall likely be rejected.</u>	
3	DELIVERY BASIS	FOR - HPVP STORES, BHEL - VISAKHAPATNAM	
4	FREIGHT CHARGES	INCLUDED IN BASIC PRICE	
5	TRANSIT INSURANCE	INCLUDED IN BASIC PRICE	
6	PACKING & FORWARDING	INCLUDED IN BASIC PRICE	
7	VENDOR GSTIN	To be furnished by supplier	
8	INSPECTION CHARGES -NIBR	BHEL A/c	Not Applicable
9	INSPECTION CHARGES -IBR	INCLUDED IN BASIC PRICE	
10	TESTING CHARGES (As per TDC / Material Spec.)	INCLUDED IN BASIC PRICE	
11	OFFER VALIDITY	90 days from the date of Technical bid opening.	
12	TEST CERTIFICATE	IBR Forms (If applicable), MTCs, Test Reports, Final Inspection Reports etc., are to be submitted as per applicable TDC.	
13	PART QUANTITY	BHEL, HPVP reserves the right to Reduce/Increase the quantities mentioned in the enquiry. Vendor shall agree to accept Part Quantity of each item.	
14	L.D.CLAUSE	Liquidated Damages shall be at the rate of 0.5% of the total order value per week of delay or part thereof subject to maximum of 10% of the total order value. LD shall be reckoned from the date of LR/Invoice whichever is later. <u>Loading Factor:</u> Any deviation from the above LD clause, loading shall be applied to the extent of relaxation sought to which it is not agreed by the bidder at offered basic value. In case of LD recovery, the applicable GST shall also be recovered from the supplier.	

COMMERCIAL TERMS AND CONDITIONS (For Indigenous Suppliers)
(To be filled in full and to be submitted along with offer)

ANNEXURE-A

Email Enquiry No: H232100006 (For Supply of CS 180 Degree Pipe Bends)

SL. NO.	DESCRIPTION	BHEL REQUIREMENT	SUPPLIER COMMENTS
15	ARBITRATION	Notwithstanding anything contained in any document whatsoever, all questions, matters, disputes and claims relating to and arising out of this contract, shall be referred to sole arbitrator, who shall be appointed by Head of the Unit, BHEL, HPVP, Visakhapatnam at his sole discretion. Such appointment of arbitrator shall not take place unless and until a written request for appointment of arbitrator from any of the parties to the contract has been received by Head of the Unit as aforesaid. The arbitrator shall give his reasoned award. It is a term of this contract that no person other than a person appointed by such Head of the Unit as aforesaid, shall act as arbitrator and if for any reason that is not possible, the matter is not to be referred to arbitration at all. The venue of arbitration shall be such place as may be Fixed by the arbitrator at his sole discretion. The award of arbitrator shall be final, conclusive binding on all the parties to the contract.	
16	JURISDICTION	Not out of this contract including that arise out of arbitration and bank guarantees, shall be initiated, filed and tried only in the courts, tribunals and forums, situated at and having territorial jurisdiction over Visakhapatnam even though such jurisdiction also vests in courts, tribunals & forums situated elsewhere in the country.	
17	RISK PURCHASE	The delivery period stated shall be realistic and shall be strictly adhered to. If the deliveries are not maintained and if on the account, this company is forced to buy the materials elsewhere to avoid any loss or damage that the company may sustain thereby the purchaser is entitled to procure the material at the risk and cost of the seller, which shall be recovered from them out of due of this PO / Contract, any other PO / Contract with BHEL and balance amount if any shall be required to be deposited by the vendor.	
18	FORCE MAJEURE	The supplier shall not be considered in default if delay occurs due to causes beyond their control such as Acts of God, Natural Calamities, Fire, Frost, Flood, Civil War, Civil Commotion, Riot, Government Restrictions, strikes / lock outs. Only those causes that have duration of more than seven days shall be considered cause of force majeure. Notification to this effect duly certified by local chamber of commerce / statutory authorities with supporting documents shall be given by the supplier to BHEL by registered letter/courier service immediately without loss of time. In the event of delay due to such causes the delivery schedule shall be extended for a length of time equal to the period of Force Majeure or at the option of BHEL the order may be cancelled. Such cancellation would be without any liability whatsoever on the part of BHEL. In the event of such cancellation the supplier shall refund any amount advanced or paid to the supplier by BHEL and deliver back any material issued to him by BHEL and release facilities, if any, provided by BHEL.	
19	REJECTION REPLACEMENT	Rejected material, if any, after receipt of material at our end, shall be replaced by you immediately free of cost and also on freight paid basis.	
20	GUARANTEE CERTIFICATE	Vendor should guarantee the material against all design and manufacturing defects and for performance for a period of 18 months from the date of last dispatch or 12 months from the date of commissioning whichever is earlier. If any defect is noticed during the above period, the same shall be rectified / replaced free of cost on FOR BHEL,HPVP, Visakhapatnam / Destination basis within a reasonable time.	
21	FIRM PRICE	Price should be firm till execution of order.	
22	VENDOR STATUS (MICRO / SMALL)	MICRO / SMALL : (To be indicated by vendor and latest copy of supporting documents as mentioned in RFQ shall be furnished along with offer)	

COMMERCIAL TERMS AND CONDITIONS (For Indigenous Suppliers)
(To be filled in full and to be submitted along with offer)

ANNEXURE-A

Email Enquiry No: H232100006 (For Supply of CS 180 Degree Pipe Bends)

SL. NO.	DESCRIPTION	BHEL REQUIREMENT	SUPPLIER COMMENTS
23	VENDOR STATUS (SC / ST/WOMAN ENTREPRENEUR)	SC / ST/WOMAN ENTERPRENUER : whether owned by SC / ST / WOMAN Entrepreneurs: (To be indicated by vendor and latest copy of supporting documents shall be furnished along with offer)	
24	MSME - Document Proof	Vendor shall furnish Udyog Aadhaar Memorandum number: (Copy of Udyog Aadhaar Memorandum is to be attached along with offer if applicable)	
25	QUALITY ASSURANCE PLAN	In the event of order, vendor should submit QAP within 10 days from the date of PO.	Not Applicable as IBR Item
26	REVERSE AUCTION	Supplier shall confirm acceptance to Reverse Auction clause no.6 mentioned in Special Terms and Conditions	Not Applicable

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RFQ/ Enquiry No. H232100006

Date: 22.02.2021

SPECIAL TERMS AND CONDITIONS**Category of Tender: Two-Bid System****Scope of Supply: Pipe Fittings as per Items Annexure E.**

1. Vendor shall submit a duly filled with categorical confirmation of Commercial Terms & Conditions (CTC) as per enclosed ANNEXURE-A (for Indigenous Suppliers) or ANNEXURE-B (for Foreign Suppliers) whichever is deemed applicable along with Technical Delivery Conditions (TDC). The offers of those Vendors who do not comply with all the Clauses of CTC and TDC in total are likely to be rejected. Documents submitted along with the offer shall be signed and stamped on each page by an authorised representative of the vendor as an acceptance to the terms & conditions.

2. Inspection:**Indigenous Suppliers:** By IBR

BHEL or its authorized representative shall be entitled to carry out inspection of material and workmanship at supplier's premises or at his sub-contractor's premises at all reasonable times during execution of the contract and before dispatch clearance; Such inspection, examination and testing, if made, shall not absolve the vendor from his obligations under the contract.

Foreign Suppliers: (Not Applicable)

After completion of the Inspection at works respectively, both Indigenous and Foreign suppliers need to send the scanned copies of TCs, Inspection reports and other applicable Test Reports in accordance with TDC to BHEL with duly endorsed by Inspecting authority for obtaining the material dispatch clearance.

3. Technical Delivery Conditions (TDC):

For enq. item no. 1 - TDC: 0:423 REV. 09.

For all items IBR Forms (for IBR items) MTCs and Stage Inspection Reports are to be supplied as per TDC, Matl. Spec., QAP & PO. **Make of Pipe Fittings shall be from BHEL-HPVP approved makers against material groups CFFGI, CFGOF, CFFSF, FITCS, FITSS and 97MIS only.**

Offers of the vendors registered with other BHEL units against similar material also acceptable on proof of submission of proper registration document.

Vendor shall categorically submit all the enquiry documents, Commercial Terms & Conditions by all means confirming each point by endorsing and stamped undertaking on each page by an authorised representative of the bidder as a token acceptance of the same.

4. Pre-Qualification Criteria(PQC) / Eligibility criteria: PQC / Eligibility criteria for vendor to participate against this RFQ mentioned videlicet is essential. Supporting documents need to be attached along with Technical bid, **offers without proper supporting documents in line with the requirement shall not be considered for scrutiny.**

- Experience & Past performance in executing similar type of material in last 2 years (PO copies & Inspection release note preferably from PSU reckoned as supporting documents).
- Financial Standing thru latest I.T.C.C. and Annual Report (Balance sheet, Profit & Loss account) of last 3 fiscal years.
- Valid ISO:9001 certificates & Accreditation with validity period (To submit True Copy Duly Notarized or Attested by Gazetted Officer)
- PAN, TIN, GST Details.

The above stated Pre-Qualification Criteria is not applicable to those vendors who were already registered under PMD of HPVP-BHEL.

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5. Price Evaluation:

The Price shall be evaluated on Landed Cost basis (Total cost to BHEL). Landed cost shall be worked w.r.t the price quoted including Quantity Tolerance, P&F charges, Testing & Inspection charges, Freight, Transit Insurance, loading on Deviations, Customs duty, loading as per customs notifications and GST after taking out Input Tax Credit as applicable.

The price comparative statement shall be worked out on overall landed cost (Total Cost to BHEL-HPVP) against Total package basis for arriving L1.

- The comparative statement of price shall be prepared based on the reference date and the same will remain firm throughout the enquiry period. Any change in duty and tax structure during the execution of contract will not be considered for the re-ranking of vendors.
- The lowest price bid received against BHEL-HPVP tender need not to be the commercially lowest (L1) price bid. BHEL-HPVP e'er reserves the right to negotiate the same.
- BHEL-HPVP e'er reserves the right/option to REFLOAT the tender, if L1 price bid is not deemed to be the lowest acceptable price.
- Import offers shall be evaluated based on the consideration of Exchange rates (TT selling rate of SBI) that is prevailing on the date of Technical Bid opening. If the date of Technical bid opening happens to be a bank holiday or no forex, then the forex rate that was prevailing on previous bank (SBI) working day shall be considered.
- In the course of evaluation, if more than one bidder happens to occupy L1 status, effective L1 will be decided by soliciting discounts from the respective L-1 bidders. In case more than one bidder happens to occupy the L-1 status even after soliciting discounts, the L-1 bidder shall be decided by a toss / draw of lots, in the presence of the respective L-1 bidder(s) or their representative(s). Ranking will be done accordingly. BHEL's decision in such situations shall be final and binding.

6. Reverse Auction (R.A.): Not Applicable

~~**"BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the techno-commercially qualified bidders. Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) do(es) not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking."**~~

~~**Non acceptance for R.A. participation, may result in non consideration of such bids.**~~

~~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) in the Reverse Auction. Non-submission of 'Process compliance form' 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).~~

7. GST Clauses:

- The bidder to specify in their offer (Part-1 Bid) w.r.t the category of their registration under GST like Registered, Unregistered or Composite Dealer.
- The provisional GST registration number of Bharat Heavy Electrical Ltd., Heavy Plates and Vessels Plant, Visakhapatnam is "37AAACB4146P7Z8" with state Code as "37" and State Name as "Andhra Pradesh".
- No GST will be reimbursed to unregistered or composite dealer. In the event, any GST is quoted by composite dealer, the same shall be added to the cost of supply in evaluating the bid.
- Supplier shall mention their GSTIN registration number(GSTIN) in all the invoices and invoices shall be in the format as specified/prescribed under GST Laws. Invoices shall necessarily contain Invoice No. (in case of

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multiple numbering system is being followed for billing like SAP Invoice No., Commercial Invoice No., etc., then the Invoice No. which is linked/uploaded in GSTN Network shall be explicitly indicated), item description as per P.O., Quantity, Rate, Value, Applicable Taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code etc.

- e) All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature) / SAC code (Services Accounting Code).
- f) The bidder shall clearly indicate HSN (Harmonized System of Nomenclature) / SAC (Service Accounting Code), its description and applicable rate of GST for each item in their techno-commercial bid.
- g) In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied / leviable on BHEL.
- h) In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor along with interest levied / leviable on BHEL.
- i) Vendors must ensure compliance of all the applicable rules and procedure as envisaged in the GST Regime. Any loss to BHEL due to fault / noncompliance by the vendor will be to the vendor's account.
- j) Indigenous suppliers need to fill the details in Annexure- D and submit the supporting documents along with their offer without fail.
- k) GST TDS is applicable as per rules.

8. SPECIAL PROVISION FOR MICRO AND SMALL ENTERPRISES (MSE) – APPLICABLE FOR INDIGENOUS MANUFACTURER ONLY:

- i. As per Public Procurement Policy Gazette Notification by the Government of India. In tenders, participating Micro & Small Enterprises (MSE) quote price within price band of L1+15%, such MSE shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro & Small enterprise and such Micro & Small Enterprise shall be allowed to supply up to 25% of total tendered value. In case of more than one such Micro & Small Enterprise, the supply shall be shared proportionately (to tendered quantity).
- ii. Special provision for Micro and Small Enterprises owned by women: Out of 25% tendered quantity reserved for MSE suppliers, 3% shall be earmarked for procurement from MSE owned by Women entrepreneurs.
- iii. Special provision for Micro and Small Enterprises owned by SC or ST: Out of 25% tendered quantity reserved for MSE suppliers, 6.25% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs.
- iv. MSE Suppliers can avail the intended benefits only upon submission of supporting documents along with offer i.e. 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 (as per enclosed format Annexure - C 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 to this enquiry if any deficiency (in the above required documents) is found due to non-submission 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. This provision for MSE will be applicable subject to the condition that, the participating MSE meet the tender requirement.

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- v. All Micro and Small Enterprises (MSE's) who are having Udyog Aadhaar Memorandum shall also be provided in order to avail all the benefits applicable for MSEs under the Public Procurement Policy for Micro and Small Enterprises (MSE), order 2012.
 - vi. In case 2 (two) or more MSE vendors quote the price within price band of L1+15%, purchase order will be placed on the MSE vendor who quoted lowest price, subject to the acceptance of L1 price.
 - vii. MSE Suppliers shall declare the Udyog Aadhaar Memorandum (UAM) number on Central Public Procurement Portal (CPPP), failing which such bidders will not be able to enjoy the benefits as per Public Procurement Policy for MSE's order 2012 for tenders invited electronically through CPPP.
 - viii. In case of any change in the MSE status of bidder, it shall be the responsibility of bidder to notify the same as a part of the bid document. If it comes to the knowledge of BHEL at a later date/stage, that the change in the status has not been intimated by the bidder and the order is obtained under the premise of an MSE then BHEL would cancel the pending order against this tender and take necessary steps for suspension of the business dealing with the bidder as per the procurement policy of BHEL.
9. BHEL always reserves the right to cancel the Enquiry / Tender at any stage without assigning any reasons thereof. Also, BHEL always reserves the right to reject or accept one or any offer without assigning any reason.

10. BHEL Fraud Prevention Policy:

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."

11. In case of an agent submitting bid on behalf of a Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product. BHEL reserves the right to reject such bids.
12. No overdue interest will be payable by BHEL to either supplier or his bankers.
13. All Bank Charges bearable to Vendor account only.
14. **Linking up of Old issues:** In case if you have any outstanding problems with earlier supplies, you should not linkup against this enquiry or P.O. at later stages.
15. **Packing:** Equipment shall be packed as per the requirements of Roadworthy / Seaworthy Packing according to TDC.

16. GUIDELINES FOR SUSPENSION OF BUSINESS DEALING WITH SUPPLIERS:

The offers of the bidders who are under suspension and also the offers of the bidders, those who engage the services of the banned firms, shall be liable to rejection. The list of banned firms is available on BHEL website <http://www.bhel.com>.

1.0 Integrity commitment, performance of the contract and punitive action thereof:

1.1 Commitment by BHEL: BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.

1.2 Commitment by Bidder/ Supplier/ Contractor:

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- 1.2.1 The bidder/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.
- 1.2.2 The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.
- 1.2.3 The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL.
- 1.2.4. If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extant guidelines of the company available on [www. bhel.com](http://www.bhel.com) and/or under applicable legal provisions.
17. For current tender/enquiry, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017 & 28.05.2018 and subsequent orders issued by the respective Nodal Ministry shall be applicable, even if issued after floating this NIT and before finalization of contract / P.O. / W.O. against this NIT.
- In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, the same shall be applicable.
18. Please submit your quotation in TWO PART BID (PART I- Techno Commercial & Unpriced Bid, PART II - Priced Bid).

The tender completed in all respects **shall be submitted through email latest by 14.00 Hrs. (IST) on the due date (04.03.2021)** duly mentioning the tender number, description and date in the subject.

Part-I: Techno-Commercial Bid along with unpriced copy of Price schedule shall be submitted to email id: technicalbid-hpvp@bhel.in duly mentioning the tender number, description and date in the subject.

Part-II: Priced Bid shall be submitted to email id: pricebid-hpvp@bhel.in duly mentioning the tender number, description and date in the subject.

BHEL-HPVP is not responsible for any delays in submission of offers. Offers received in any other form will not be accepted.

H232100006 - PRICE SCHEDULE

Enq. Item No.	Material Code	Item Description	Unit	Qty.	Unit Rate in Rs.	Total Price in Rs.
1	1562523300000	180 DEG PIPE BEND OF OD 51 X 3.6 THK. MATERIAL SHALL BE AS PER THE DRAWING NO:4- 19-154-U8341/REV 0.ENDS SHALL BEVEL ENDS AND BE PROTECTED SUITABLY BEFORE DISPATCH FROM VENDOR WORKS.RAW MATERIAL SHALL MEET THE TECHNICAL REQUIREMENTS OF TDC:0:102 Rev:17 . PAINTING DETAILS:SURFACE PREPARATION:SSPC-SP2/SP3-HAND TOOL/POWER CLEANING.PRIMER COAT:RED OXIDE ZINC PHOPSHATE DIP/BRUSH COAT PRIMER TO IS 12744.DFT:30 MICRONS/COAT.NO OF COATS:2.TOTAL DFT:60(MIN)	Numbers	64		



Product: SEAMLESS STEEL TUBES (for BOILERS)

Revision record:

Rev 08: 21.09.04: UT as per BS EN 10246-7, in lieu of ASTM E 213

Rev 09: 31/12/05: Cl 5.0 - mention of shape and size of tensile test specimen on TC introduces

Rev 10: 29/12/07: Cl 1.0, 3.0, 6.0, 7.0, 11.0 and 12.0 modified.

Rev 11: 19/05/09: Cl 8.0 – Modified. Cl 9.0 – Marking details included in line with material specification.

Rev 12: 08/06/11: Cl 1.0- SA 213 T12, T92 and T23 removed from this TDC. Cl 2.0 Process of Manufacture – Clarified. Cl 9.0- Stenciling and colour coding modified. Cl 12.0- Modified.

Rev 13: 04/07/11: Cl 6.0: Modified, Cl 9.0 – Marking: Correction made in the “Details to be identified”

Rev 14: 26/10/12: Cl 2.0, 6.0 and 12.0 modified

Rev 15: 19/02/2016: TDC: 0:124 requirements merged in this TDC. And Cl 1 modified; Cl 2 modified to include polygonization requirements; Cl 4– heat treatment temperature added for Gr 91; Cl 5– lot size for mechanical tests defined & additional requirements of Gr 23, 91 & 92 added; Cl 6, 7, 9 – modified; Cl 10 –Preservation requirements modified; Cl 11 – modified; Cl 12-changed as per latest IBR including MAWP requirements.

Rev 16: 13/10/2017: Clause 1 & 12 modified to include raw material requirements and certification in IBR Form IV. Clause 5 (f) added to include creep requirements.

Rev 17: Dt: 20/04/2018 - Cl 2 added to include Billet/Bloom Requirements, Cl. 3 modified, Cl. 6(f) modified, Cl. 13.3 (k) added to include mill TC certification

1. MATERIALS

Specification: ASME (Latest as on the date of Enquiry/PO, whichever is earlier):

Carbon Steel (CS) : SA 192; SA 210 Gr. A1 & Gr. C

Alloy Steel (AS) : SA 209 Gr.T1, SA 213 Gr. T11, T12, T22, T23 (Code case: 2199), T91 and T92 (Code Case: 2179).

Stainless Steel (SS) : SA 213 TP 304H, 316, 321, 321H, 347H; UNS No: S30432 (Code Case: 2328, Super 304).

Additional Requirement : As listed below (Supplementary to above material specifications)

Size and Quantity : As per Purchase order

2. BILLET/BLOOM REQUIREMENTS:

The billets/blooms shall be fully killed and vacuum degassed. Ultrasonic testing shall be carried out on rolled and forged billets/ blooms as per ASTM A388 and acceptance criteria shall be as per ASME Sec VIII Div2 Cl.3.3.4. Ladle analysis is required for all steels. Chemistry shall be controlled as given below for below specified grades. For all other grades, it shall be as per applicable material specifications:

- i. Carbon Steel: Max. Carbon: SA 210 Gr.A1: 0.25%, SA 210 Gr.C: 0.30%
- ii. For SA 213 T12: Aluminum: 0.025% max; Silicon: 0.20%min. on product analysis and the values shall be reported in the test certificate.
- iii. Stainless Steel (SS): Boron: 0.01% max., Vanadium: 0.10% max.

a) Micro examination for rolled bloom shall be carried out as below:

The Specimen for Testing shall be taken on longitudinal plane, midway between the center and surface of the material. The 'Inclusion content of the steel', measured as per ASTM E45 shall not exceed the following.

Classification							
Type 'A'		Type 'B'		Type 'C'		Type 'D'	
Thin	Heavy	Thin	Heavy	Thin	Heavy	Thin	Heavy
2	1	2	1	2	1	2	1

Micro examination for forged bloom shall be carried out as below:

1. Thick series 0.5 allowed.

2. Thin series 2 max.

b) Macroetch test (Concast and rolled blooms): One sample of complete cross-section of a bloom (Bar) for each Heat/ Melt Number shall be examined in accordance with ASTM E381. The reference plates shall be as follows.

i) For the blooms made by Concast Method (Plate — II & III) and

ii) For the blooms made by Rolled & Forged Method. (Plate I & II).

iii) The Macro structure shall be better than or equal to C2 R2 S2 of ASTM E381 (Plate I & II)

Injurious defects of any category like Surface cracks, Pipe/center void, Star crack, center unsoundness, Dark center, Pin holes, White bands, Chill structure, and Dendritic structure (strong) - are not allowed.





Product: SEAMLESS STEEL TUBES (for BOILERS)

Photo of Macrograph shall be provided along with test certificates per Heat/ Melt.

- c) *The billet/bloom shall conform to the chemical and process requirements of respective tube specifications. The billet/bloom shall be sourced from IBR well known steel makers or with inspection and certification by IBR authorized Inspecting Authority in case the mill is not approved by IBR. Mill test certificate shall be submitted to BHEL.*

3. CHEMICAL COMPOSITION AND PROCESS OF MANUFACTURE OF TUBES

- a) **Carbon Steel & Alloy Steel:** Tubes shall be seamless and made by processes specified below:

1. All tubes shall be cold formed in case of "t/D" ratios > 0.15, where "t" is the specified nominal wall thickness and "D" is the specified nominal OD of the tube.
2. Tubes may be cold formed or hot formed in case of "t/D" ratios upto and including 0.15.
3. The degree of polygonization (P), measured as indicated in Fig.1 & calculated using the below formula, shall not exceed 15% in both the above cases:

$$P = \{[\sum S_B - \sum S_A] / [0.135*(3D - \sum S_A)]\} * 100$$

where, P is the degree of polygonization in %

D is the specified nominal OD of the tube

$\sum S_B$ is the sum of maximum tube wall thicknesses measured at 6 locations 60 degrees apart and

$\sum S_A$ is the sum of minimum tube wall thicknesses measured at 6 locations 60 degrees apart.

Wall thickness shall be measured using profile projector/shadowgraph/digital scanner/any other suitable instrument meant for this purpose.

Definition of the measure points:

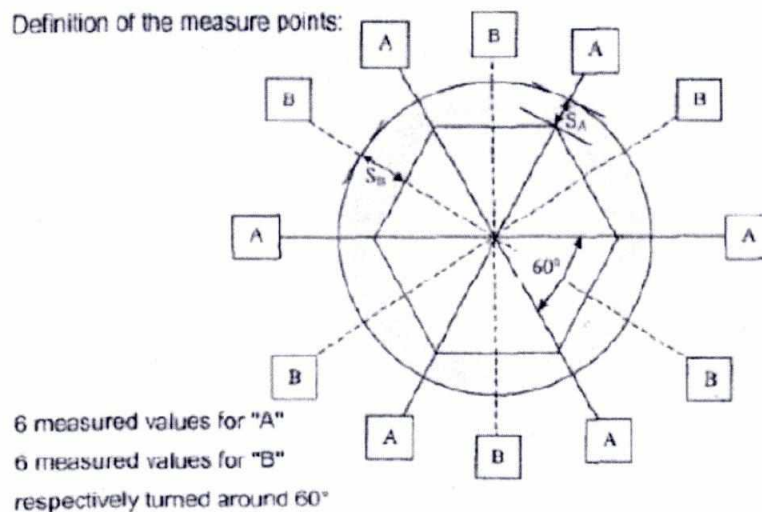


Fig. 1

Stainless Steel: Tubes shall be seamless and cold finished. All raw materials used in steel making including incoming scrap shall be checked by supplier to ensure freedom from radioactivity (Applicable for SS materials only).

- b) Product analysis on tubes is required for all steels. *Chemistry shall be controlled as per applicable material specifications and the elements including Aluminium & Silicon (for T12), Boron & Vanadium (for Stainless steel) as indicated in Clause 2 shall also be reported in the product analysis.*

4. DIMENSIONAL TOLERANCES

- a) For Cold finished tubes: CS: as per SA 450; for AS & SS shall be as per SA 1016.
Tolerance on thickness shall be: For OD ≤ 38.1 mm: -0% to +20% and For OD > 38.1 mm: -0% to +22%
- b) For hot finished tubes the tolerance shall be as follows:
For Outside Diameter: ± 0.4mm.
For Thickness: -0% to +22% t > 4.5 mm
-0% to +24% t between 3.6 and 4.5 mm (both inclusive)
-0% to +28% t < 3.6mm



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5. HEAT TREATMENT

CS Hot finished: No Heat Treatment required.

CS Cold finished: Subcritical annealed (temperature $\geq 650^{\circ}\text{C}$), fully annealed or normalized.

AS: Normalized and Tempered. For SA213 T23, T91 & T92: Normalizing: $1050-1080^{\circ}\text{C}$ & Tempering: $750-780^{\circ}\text{C}$. (The total thickness of the decarburized material (Both on ID & OD of the tube together) shall be measured once per Heat treatment lot. The measurement shall be determined from a representative sample that has been sectioned, polished, etched and examined at 100X. The total decarburization thickness shall not exceed 7% of the specified minimum wall thickness and shall be reported in the test certificate.)

SS: Solution Annealed condition as per material specification.

6. MECHANICAL TESTS

a) As per specification. Quantum of test: As per specification – For each nominal size per heat per heat treatment batch (Minimum 2 tubes for first 100 tubes and 1 per 100 or part thereof for tubes over 100 numbers, as per IBR).

b) Tension test required for SA 192. **Acceptance:** explanatory note in Specification. Hardness for SA 192: 120 HBW (max).

c) For tension tests the shape and size of the specimen shall be mentioned on the Test Certificate (viz., Full tube tensile or strip tensile or round tensile).

d) Additionally, the material supplied shall meet the requirements as below:

T91-Tensile strength:Min: 630MPa, Max: 850MPa; Yield Strength: Min: 450MPa; Hardness (HBW): Min: 195/Max: 250

T92-Tensile strength: Min: 620 MPa, Max: 850 MPa; Hardness (HBW): Min: 190 / Max:250

T23-Tensile strength: Min: 510 MPa, Max: 730 MPa; Hardness (HBW): Min: 150 / Max:220

e) **Charpy Impact V-Notch Test at the mill as per SA 370 for SA 213 T23:**

- **Impact testing frequency** - minimum of two tubes per each heat treatment lot produced.
- **V-Notch Impact test procedure & specimen size as per ASME SA 370.**
- **Test temperature:** 20°C .
- **Acceptance:** All specimens shall absorb energies at or above 40 ft-lb (55Joules) for a full size specimen (10mm thickness). The energy requirement is proportionally reduced for sub-size specimens as specified in ASME SA 370, Table 9.
- The fracture surfaces on all specimens must exhibit 100% ductile appearance regardless of the absorbed energy values obtained.
- Any specimen exhibiting an absorbed energy less than 40 ft-lb (55Joules) or less than 100% ductile behavior shall constitute permanent rejection of the entire lot of tubing.

f) *Creep testing shall be carried out as per SIP:RM:01 (latest revision) whenever indicated in the Enquiry/Purchase Order/Engineering Drawing.*

7. NON DESTRUCTIVE TEST (In-house Automated Online Testing Only)

a) Each tube shall be examined full section over its entire length.

Ultrasonic Testing: For thickness ≥ 3.6 mm to be conducted as per ASTM E213. Calibration: 2 axial 50mm long notches, one in outer surface and the other in inside surface. For OD < 30 mm, one notch in outer surface only. Notch depth: 5% of wall thickness (Min. 0.3 mm, Max: 1.5 mm). Scanning: clockwise & anti-clockwise.

Eddy current Test: For thickness $< 3.6\text{mm}$, as per ASTM E309 /E426 as applicable, Calibration: Longitudinal notch depth: 5% of wall thickness (Min. of 0.3 mm) or drilled hole as per SA 106.

b) SS: Finished tubes shall be checked for radioactive contamination and reported. Survey meter shall be used to measure at 5cm near the surface. **Acceptance limits:** Shall be less than 0.1 milli Rontgen (mR) per hour or 1 micro Sievert per hour.



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c) The residual magnetism in all finished tubes, measured with field indicator, shall be limited to 5 gauss maximum.

8. HYDROSTATIC TEST

Extent of test: On all tubes of thickness < 3.6 mm as per SA 450 Cl 22.3 with S=80% of specified min. yield strength at room temperature. For others if specified in Purchase Order. Acceptance: No leak shall be permitted.

9. FINISH AND REPAIR

Inside and outside surfaces are shall be free from scales and defects like laps, seams, folds, cracks, pitting etc. Repairs by welding are prohibited. Surface defects can be removed mechanically, ensuring smooth curved surface and maintaining specified minimum thickness without affecting the workmanlike finish.

10. MARKING: (in English only)

a) **Details to be identified:** Tubes shall be marked repeatedly & continuously along its entire length with the following details as indicated below:

(1) PO Number, (2) Maker's emblem/code, (3) Specification & grade, (4) Code case (if applicable) (5) Heat number, (6) Size (OD x Thickness x Length, in mm), (7) No. of tubes, (8) Inspector's seal, (9) Condition: Hot finished or Cold Finished, (10) Tube Minimum Wall Thickness Designation (For SA 213 Spec only).

- Below OD 31.8mm. (Excl.) – SI Nos:1 to 10 to be stamped on metal/plastic tag attached to bundle.
- OD 31.8-76.1mm. (Incl.) - SI Nos: 1 to 6, 9 and 10 to be paint stenciled, repeatedly through the entire length of each tube. Also SI.No:1 to 10 to be stamped on Metal/Plastic tag attached to bundle.
- OD>76.1 mm- SI Nos: 2 to 6 & 8 to be hard stamped with round edge stamp at 100mm from both ends and SI No:1 to 6, 9 and 10 to be paint stenciled on each tube.

b) **Colour Coding:** Continuous longitudinal colour coding shall be done on the entire length of all tubes, without masking stenciling. If more than one color is to be applied on the tubes then, colour bands shall be adjacent. Colour coding scheme as per Procedure SIP: PP: 21 (latest).

11. PRESERVATION:

All tubes, except SS, shall have Rust Preventive Fluid (RPF) coating on the external surface as follows: The Tubes shall be coated with suitable RPF with minimum DFT of 50 microns. RPF coated steel surfaces shall be capable of withstanding salt spray corrosion test for minimum 1000 hours. The RPF coating should be sea worthy, ensuring freedom from corrosion when transported through sea voyage. The RPF coating shall get dried and shall be a transparent coating, so that it is possible to see the tube surface clearly as well as read any stenciled matter on tube surface. The inside surface of the tube shall be protected with volatile corrosive rust inhibitor. Rust preventive coating shall withstand at least one year storage at open yard from receipt of materials. The supplier shall stand guarantee for this. SS tubes to be surface treated as per ASTM A380 both inside and outside. Tube ends shall be closed with push type plastic end caps/plugs secured tightly to avoid entry of water during transportation and storage.

12. PACKING:

Tubes of thickness ≤ 2.5 mm, shall be packed in boxes and others in bundles. Tubes of thickness ≥ 6.5 mm and OD ≥ 88.9 can be shipped loose. Bundles to be ≤ 4 tons of equal no. of tubes, fastened with galvanized strap (1x25mm.min.) or annealed wire for CS & AS and by Nylon strap for SS at both ends & at 1m interval in between. Wooden pallets/cardboard to cover tubes are not permitted.

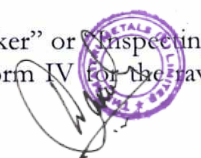
13. INSPECTION AND CERTIFICATION:

13.1 Products shall be inspected at works and the applicable IBR Form must be Countersigned by the Inspecting Authority as indicated below:

Imported Items: Inspecting Authority approved by IBR for the Country of origin (To be concurred by BHEL before placing PO.)

Indigenously Supply: Director of Boilers/Chief Inspector of Boilers/Inspecting Authority approved by IBR, for the respective state.

13.2 Certification in IBR Form III-B for finished tubes from "IBR-Well Known Tube Maker" or "Inspecting Authority", as applicable, shall be submitted to BHEL. Also, certification in IBR Form IV for the raw



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Product: SEAMLESS STEEL TUBES (for BOILERS)		

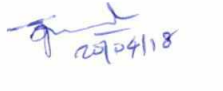
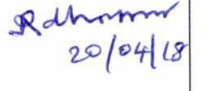
material signed by “IBR-Well Known Steel Maker” or “Inspecting Authority”, as applicable, shall be submitted to BHEL. Refer to BHEL Engineering Drawing: 4-03-000-00061 (Latest Rev) for MAWP values for various material grades & sizes at various temperatures.

13.3 Additionally, Manufacturer’s Test certificate(MTC) (ORIGINAL in ENGLISH) with following details shall be submitted to BHEL:

- Purchase Order No. (BHEL), TDC No and its Rev No, Test certificate No., Size and Quantity-Melt wise.
- Specification and Grade with year of code, Code case number (if applicable), Heat Number, Steel & Tube making process, chemistry including incidental elements-Ladle and product Analysis.
- Heat Treatment details with actual temperature and soaking time
- Mechanical test results
- Detailed NDE report with reference norms, acceptance standards and test results.
- Grain size, as applicable.
- Decarburization layer thickness
- Certification for compliance to residual magnetism
- Certification for minimum DFT of rust preventive coating
- Creep test report for minimum of 1,000 hours as per Cl. 5(f) (only for IBR applications).
- Mill test certificate of the raw material (billets/blooms) as per Cl. 2.*

In the MTC a clause for Certificate of Compliance (as per SA1016) shall be added stating that: All materials/components supplied to Purchase Order meet all requirements contained in the PO, this Technical delivery conditions and applicable ASME specifications.

13.4 For SS: Measured Radioactivity levels shall be reported in the Mill Test Certificate and shall be submitted to BHEL.

 20/04/2018	 20/04/18	 20/04/18	 20/04/18	 20/04/18	 20/04/18
Abdur Rahman Sr. Engr/QA	G. Panneer Selvam DGM/QA	M. Nadanakumar AGM/MM	S. Anand Kumar DGM/PE/FB	R. Dharmar AGM/QC	Amit Roy AGM/QA&BE
Prepared By	Reviewed by				Approved By

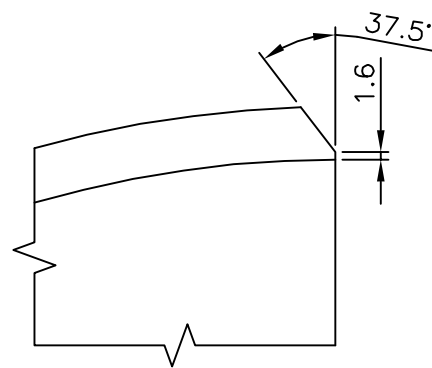
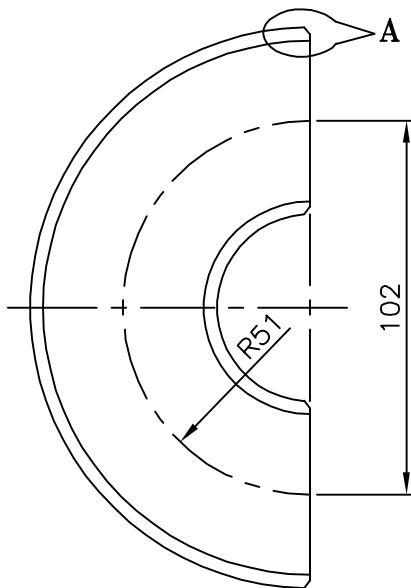


CAUTION:

REV	DATE	ALTERED :
01		CHD & APPD :

DESIGN DATA

- DESIGN PRESSURE Kg/Cm (g) : 124.5
(MAX. ALLOWABLE WORKING PRESSURE)
- DESIGN TEMPERATURE °C : 247
- WORKING PRESSURE Kg/Cm (g) : 115.9
- HYDRO TEST PRESSURE Kg/Cm (g) : 192.75
- CORROSION ALLOWANCE mm : NIL
- CODE : IBR
- INSPECTION : IBR



DETAIL - A (EP)

180° BEND

S.O. 7905
M/s GAIL-Pata

	180° PIPE BEND OD51x3.6 THK.-DEV.LG160.22		156252330000 SA 210 GR.A1	A	L	0.725
VARIANT NUMBER	DESCRIPTION	STD	MATERIAL CODE	A/C/P	UNIT	UNIT WEIGHT
			MATERIAL SPECN			QUANTITY



Bharat Heavy Electricals Ltd
UNIT: HEAVY PLATES & VESSELS PLANT
VISAKHAPATNAM - 530012

DRN	NAME	DATE
	K.H.THOMAS	30.11.20
CHD	M.V.R. PRASAD	30.11.20
APPD	Y.P.KUMAR	30.11.20

DEPT HT ENGG.	ALL DIMENSIONS ARE IN MM	PROJECTION	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG
CODE 320			N.T.S.	0.725	B-1-19-154-00062 (BHPV OLD W.O.No. 7162-11)
TITLE PIPE BEND (180°)					DRAWING NO : 4-19-154-U8341
					REV 00

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 per the latest audited financial year 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

(Strike off whichever is not applicable)

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.

Or

The company has been graduated from its original category (Micro/ Small) (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is (dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:



(Signature)

Name -

Membership number -

Seal of Chartered Accountant