

Buyers Specific Additional Terms & Conditions in addition to GTC

Item Name: Pressure Transmitters

Projects: 6 Project (ADANI)

1. Scope of Enquiry

E-bids on GeM are invited from bidders for the supply of **Pressure Transmitters for ADANI 6 Nos Projects (having 2 units each) of (2X800 MW) Projects**, as per requirement mentioned below:

Applicable DRG: 41337666101 REV: 10 with BHEL SPEC: ST48010 REV: 05 & its addendum.

Material requirement (Mat code wise): Details for one Project (2 Units) / Annex-1

Sl. No.	Material Code & Item Description	Total Qty (No.) for all Projects	Lot wise Qty per Project		
			Main-1	Main-2	Spares-3
1	W97372652367 PRESSURE TRANSMITTER 0-400 BAR	78	6	6	1
1	W97372652383 PRESSURE TRANSMITTER 0 TO 110 BAR	18	1	1	1
3	W97372652375 PRESSURE TRANSMITTER (-)1 TO 399 BAR	42	3	3	1
4	W97372652219 PRESSURE TRANSMITTER -1 TO +79 BAR	54	4	4	1
5	W97372652391 PRESSURE TRANSMITTER -1 TO +50 BAR	30	2	2	1
6	W97372652340 PRESSURE TRANSMITTER (-1)TO (+39) BAR	18	1	1	1
7	W97372652260 PRESSURE TRANSMITTER 0-10 BAR (ABS)	42	3	3	1
8	W97372652278 PRESSURE TRANSMITTER 0-1.3 BAR (ABS)	150	12	12	1
9	W97372651360 FLOW TRANSMITTER 0-1800 MBAR (Diff. PT)	78	6	6	1
10	W97372652251 Diff. PRESSURE TRANSMITTER -10 TO +90 MBAR	30	2	2	1
11	W90313376050 HAND HELD COMMUNICATOR (FOR SMART PRESSURE TRANSMITTERS)	12	1	1	NA
12	W97372652146 PRESSURE TRANSMITTER 0-80 BAR	126	10	10	1
13	W97372652170 PRESSURE TRANSMITTER 0-16 BAR	42	3	3	1
14	W97372652359 PRESSURE TRANSMITTER (-1) TO (+19) BAR	30	2	2	1
15	W97372652332 PRESSURE TRANSMITTER (-1)TO (+9) BAR	18	1	1	1
16	W97372652324 PRESSURE TRANSMITTER (-1) TO (+3) BAR	18	1	1	1

2. Consignee Details and delivery schedule:

Sl. No.	Project Name	Site/ Project Address	Requirement Schedule	
1	ADANI RAIGARH	Adani Power Limited, Village: Chhote Bhandar, PO: Bade Bhandar, Tehsil: Pussore Raigarh 496100, Chhattisgarh	Lot-1	04.03.2026
			Lot-2	04.07.2026
			Lot-3	04.07.2026
2	ADANI, RAIPUR PH-2	Adani Power Limited, Village: Raikheda Block: Tilda, Raipur 493225, Chhattisgarh	Lot-1	30.10.2026
			Lot-2	30.04.2027
			Lot-3	30.06.2027
3	MIRZAPUR UP	Mirzapur Thermal Energy (UP) Private Limited Village: Dadri Khurd; PO: Darhi Ram Tehsil: Sadar, District: Mirzapur 231 304, Uttar Pradesh	Lot-1	30.04.2027
			Lot-2	30.10.2027
			Lot-3	30.12.2027
4	KAWAI-PH-2	Adani Power limited, Kawai, 2 x 800 MW(Phase-II) Thermal Power project, Village - Kawai, Tehsil - Atru, Baran -District, Rajasthan, Pin-325219	Lot-1	30.10.2027
			Lot-2	30.04.2028
			Lot-3	30.07.2028
5	KAWAI, PH-3		Lot-1	30.01.2028
			Lot-2	30.07.2028
			Lot-3	30.10.2028
6	ADANI, MAHAN PH-3	Mahan Energen Limited, 2x800 MW (Phase-III) Mahan Ultra Supercritical Thermal Power Project, Village: Bandhoura, Karsualal Tehsil: Waidhan, District-Singrauli, Pin - 486886, MP	Lot-1	30.11.2027
			Lot-2	30.05.2028
			Lot-3	30.07.2028

3. EARNEST MONEY DEPOSIT (EMD):

All interested vendors must submit their e-bid along with the proof of submission of following Earnest Money Deposit (EMD) details in GeM portal along with offer. EMD is exempted as per GeM provisions applicable on GeM & mentioned at para no. 3.2 of this ATC.

Details	Amount In INR	Type
EMD	INR 6,00000/- (Six lakhs only)	Refundable

3.1: Modes of deposit: The EMD may be accepted only in the following forms:

- (i) Electronic Fund Transfer credited in BHEL account (before tender opening).
- (ii) Banker's cheque/ Pay order/ Demand draft, in favour of BHEL (along with offer).
- (iii) Fixed Deposit Receipt (FDR).
- (iv) Bank Guarantee from any of the Scheduled Banks.
- (v) Insurance Surety Bonds.
- (vi) The EMD shall remain valid for a period of 45 (forty-five) days beyond the final bid validity period as asked in NIT.

For E-Payment, the RTGS details are as mentioned below:

Bank Details	SWIFT Details of bank	Contact Details of Banker
STATE BANK OF INDIA RANIPUR BRANCH, OPP: BHEL MAIN GATE, SECTOR-5, RANIPUR, HARIDWAR, UTTRAKHAND, INDIA PIN CODE: 249403	SWIFT NO : SBININBB225 CC ACCOUNT NO : 10667995458 IFSC CODE : SBIN0000586	Contact No. +91 1334 224201 +91 1334 226125 Fax: +91 1334 226512

3.2: Exemption of EMD

As per GeM GTC following are the exempted category of EMD/Bid Security.

- a. Micro and Small Enterprises (MSEs) who are holding valid Udyam Registration and are manufacturer of the offered Product or Service (Primary Product / Service - in case of bunch bid with total value wise evaluation) and give specific confirmation to this effect at the time of bid submission and claim EMD exemption and whose credentials are validated online through Udyam Registration website of Ministry of MSME and also through supporting document uploaded during bidding process and validated by the Buyer. State Government Buyers may, however, choose to exempt only MSEs from the State of Bid Inviting Authority by specifying the same in ATC of the Bid. In case no such ATC is included, eligible MSEs of all states are exempted.
- b. Start-ups as recognized by Department for Promotion of Industry and Internal Trade (DPIIT), holding valid Start-up Recognition Certificate which is to be uploaded while bidding and claiming EMD exemption and to be validated by the Buyer. Bidder to ensure that turnover for any of the financial years has not exceeded beyond limits prescribed in the certificate / Start Up scheme of DPIIT.
- c. KVIC, ACASH, WDO, Coir Board, TRIFED and Kendriya Bhandar.
- d. Sellers who have got their credentials verified through the process of Vendor Assessment by Vendor Assessment Agencies for the Primary Product / Primary Service for which Bid / RA has been invited and holding valid Vendor Assessment or Vendor Assessment Exemption Report / confirmation (Seller to upload VA report / VAE confirmation to be validated by the Buyer).
- e. Sellers / Service Provider having annual turnover of INR 500 Crore or more, at least in one of the past three completed financial year(s)
- f. Sellers / Service Providers holding valid BIS License for the Primary Product Category whose credentials are validated through BIS database and through uploaded supporting documents to be validated by the buyer.
- g. Central / State PSUs.
- h. In addition to above GeM conditions, offers directly from the manufacturer or their authorized agents are also exempted from submission of EMD.

3.3: Forfeiture of EMD:

- a. A bidder's EMD will be forfeited if the bidder withdraws or amends its/his tender or impairs or derogates from the tender in any respect within the period of validity of the tender or if the successful bidder fails to furnish the required performance security within the specified period mentioned in the Tender.
- b. EMD by the tenderer to be withheld in case any action on the bidder is envisaged under the provisions of extant "Guidelines on Suspension of business dealings with suppliers/ contractors" and forfeited/ released based on the action as determined under these guidelines.
- c. Bid securities of the unsuccessful bidders shall be returned to them after expiry of the final bid validity period / latest by the 30th day after the award of the contract. Since it is a two-part bidding, bid securities of unsuccessful bidders during first stage i.e. technical evaluation shall be returned within 30 days of declaration of result of first stage i.e. technical evaluation.
- d. Bid security/EMD of the successful bidder shall be returned only on conclusion of the order and receipt of a Performance Security/Performance Bank Guarantee of 5% of contract value (excluding taxes) from contractor / Supplier.
- e. EMD/PBG/PS shall not carry any interest.

4.0 PERFORMANCE SECURITY/PERFORMANCE BANK GUARANTEE:

Successful bidder to submit Performance Security/Performance Bank Guarantee of 5% of the contract Value (Excluding Taxes). The Performance Security/PBG shall be submitted within 15 days of notification of the award of Contract and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.

PS/PBG shall be returned to the contractor without interest, after the contractor duly performs and completes the contract in all respects but not later than 60 (sixty) days of completion of all such obligations including the warranty under the contract. The Performance Security/PBG shall not carry any interest.

4.1 Modes of deposit of PS/ PBG: Performance Security/Performance Bank Guarantee shall be furnished in the following forms:

- I. Local cheques of Scheduled Banks (subject to realization)/ Pay Order/Demand Draft/ Electronic Fund Transfer in favour of BHEL.
- II. Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- III. Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL).
- IV. Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL).
- V. Insurance Surety Bond.

(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)

4.2: Forfeiture of Performance Security/Performance Bank Guarantee:

The Performance Security/ Performance Bank Guarantee will be forfeited and credited to BHEL's account in the event of a breach of contract by the supplier.

4.3: Performance Security shall be refunded to the Supplier/Vendor without interest, after the Supplier/Vendor duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract.

4.4 : The Performance Security shall not carry any interest.

4.5 : There is no exemption of Performance security deposit submission for MSE Vendors.

5.0 :Buyers Specific Additional Terms & Conditions in addition to GTC**Annexure A:****Note: Please fill your acceptance/ comments in confirmation column. Blank column will be understood as accepted by bidder.**

Sl. NO.	Terms	Description	Your confirmation
1	Confirmation to compliance of GTC on GeM 4.0 (Version 1.21)	General terms and conditions on GeM 4.0 (Version 1.21 dated 18.01.2025) or subsequent rules/policies issued by GeM shall be applicable. Please confirm.	
2	EMD confirmation	EMD amount Rs: 6 Lakh Vendor to be mentioned here for EMD submission details or exemption clause/ reason. Non EMD offers without justified exemptions shall be rejected.	
3	Security Deposit	Bidder to confirm that they will be submitted security deposit (5% of CV) within 30 days of PO receipt.	
4	Compliance of Rule 144 (xi) of GFR 2017	Compliance of Restrictions under Rule 144 (xi) of GFR 2017 shall be as per GeM.	
5	Public Procurement (Preference to Make in India)	For this procurement, the local content to categorize, a supplier as a Class-I local supplier/ Class-II local Supplier/Non-Local supplier and purchase preference to Class-I local supplier, is as defined in Public Procurement (Preference to Make in India), PPP-MII Order No. P-45021/ 2/ 2017-PP (BE-II) dtd. 04/06/2020 issued by DPIIT. In case of subsequent Orders issued by the respective Nodal Ministry, changing the definition of local content for the items of the NIT, the same shall be applicable even if issued after issue of this NIT, but before opening of Part-II bids against this NIT. Vendor to submit tender specific self-certificate in line with PPP-MII Order No. P-45021/ 2/ 2017-PP (BE-II) dtd. 04/06/2020 clearly indicating percentage of local content. Please Confirm	
6	Customer approval Condition	Please note that procurement shall be done only from the vendors, approved by end customer i.e. ADANI Mahan Project. BHEL will share successful vendor name and credentials to customer for approval before price bid opening and Part-2 will be opened for customer approved vendor only. VENDORS TO PROVIDE THEIR CREDENTIALS FOR ADANI CUSTOMER APPROVAL AS PROFILE, PAST EXPERIENCE PO, PERFORMANCE CERTIFICATE ETC.	
7	Pre-Qualification Requirements (PQR)	The Pre-Qualification Requirements have been compiled and format is placed at Sl. No. 34. Bidder to submit filled copy of PQR Table with supporting PO copy, unpriced dispatch document, approved GA drawing etc. All the bidders should ensure submission of complete details and documents as called for in these requirements. The Offers submitted by the bidders would be scrutinized with respect to Pre-Qualification Requirements first. Techno-Commercial offer of only those bidders shall be evaluated who meet the Pre-Qualification Requirements.	
8	Special Instruction of Technical requirement	Please confirm that Specification No. ST48010 rev-05 & DRG NO. 41337666101 rev-10 for PT/DPT and DRG NO. 41337622101 rev-01 for HHC shall be followed for concerned items of the enquiry. DRG NO. CIEPTH3 is to be followed for KKS TAG details and addendum (specific technical requirement over and above specification ST48010). Please submit duly endorsed copy of technical documents. Datasheet of each item is required for BHEL/customer approval. Type test certificate of each model required after placement of PO. Please confirm to provide. Please note that all items are to be procured from same vendor. vendor to provide operation & maintenance (O & M) manual along with supplies and 1 copy along with soft copy of O & M manual to be sent to BHEL Haridwar. Please confirm. All accessories should be in assembled condition including plug and socket connector,	

		<p>before dispatch of the items. Please confirm.</p> <p>All instruments shall be calibrated as per BHEL range of measurement before dispatch. Please confirm.</p> <p>Items against Lot-3 of each material code are spare items. These spare items are to be packed together in separate green colored box.</p> <p>Items shall be dispatched in suitable "wooden boxes" with steel strips fixed around the box", or "any other suitable packaging", which can withstand transit movement, local environment and moisture/ water.</p> <p>In addition to packing instructions given in spec. No. ST48010 (cl. No. 13), spec no. ST33002 Rev-02 (cl. No. 3.1 A & B) should be followed for packing of all items.</p> <p>Test and Guarantee certificates are required to be submitted. Please confirm</p> <p>Blank SS Tag should be attached with Lot-3 Spare material.</p>									
9	Specification confirmation	Kindly confirm that quoted offer by you have been complied all technical requirements as given in tender documents and submit all documents to BHEL as per tender specifications and drawings without any deviations.									
10	Quality Requirements	<p>For indigenous supply: Inspection by BHEL nominated inspection agency "QUEST" as per BHEL SQP "QA/BE/QP/902, REV. 12". Vendor has to endorse the Q.P (enclosed with item catalogues). For Hand Held Communicator (Material Code: W90313376050): T.C./COC is required as per ordering document.</p> <p>For Foreign vendors: Testing and certification is required as per ordering drawing and specification. For Hand Held Communicator (Material Code: W90313376050): T.C./COC is required as per ordering document.</p> <p>Please confirm to comply above quality requirement.</p> <p>THE TECHNICAL PARAMETERS IN ADDENDUM SUPERCEDES THE VALUES IN TECHNICAL SPECIFICATION AS ACCEPTANCE NORMS IN QUALITY PLAN.</p> <p>VENDER TO CONFIRM FOR VISUAL AND FUNCTIONAL INSPECTION W.R.T. TECHNICAL PARAMETERS AS AGREED TECHNICALLY.</p>									
11	Price basis, Evaluation Currency, Firm prices & Transit Insurance	<p>Prices should be quoted on F.O.R. Destination up to Respective ADANI Project basis i.e. including freight, packing & forwarding charges, GST etc.</p> <p>The evaluation currency for this tender shall be INR.</p> <p>Price will remain firm and fixed during entire execution of tender/supply.</p> <p>Transit insurance shall be arranged by BHEL and not to be included in the prices.</p>									
12	Evaluation criteria	Evaluation will be done on the basis of total landed cost to BHEL for complete enquiry , with cost involved for delivery up to all respective project site (considering material cost, taxes & duties, Freight etc.									
13	Payment Terms	<p>The payment term shall be done after issue of consignee receipt-cum acceptance certificate (CRAC) as per the below details:</p> <table><tr><td>Type of Bidder</td><td>Payment Terms (Number of Days) from MRC</td></tr><tr><td>Micro & Small Enterprises (MSEs)</td><td>45 days</td></tr><tr><td>Medium Enterprises</td><td>60 days</td></tr><tr><td>Non MSME</td><td>90 days</td></tr></table> <p>Subject to submission of non-discrepant documents. MSE benefits shall be as per GeM/ GeM NIT.</p>	Type of Bidder	Payment Terms (Number of Days) from MRC	Micro & Small Enterprises (MSEs)	45 days	Medium Enterprises	60 days	Non MSME	90 days	
Type of Bidder	Payment Terms (Number of Days) from MRC										
Micro & Small Enterprises (MSEs)	45 days										
Medium Enterprises	60 days										
Non MSME	90 days										
14	Manufacturing cum Delivery Period	<p>Kindly quote your minimum delivery period in no. of weeks. (time taken including manufacturing + Joint inspection + 07 days for MDCC issuance and up to Dispatch)</p> <p>From the date of manufacturing clearance.....</p> <p>Early delivery will be accepted as per BHEL site requirement.</p>									

15	Manufacturing clearance	In case of ordering, vendor has to take manufacturing clearance from BHEL before starting manufacturing of material. No manufacturing is to be started without getting clearance from BHEL. Kindly confirm.	
16	Document submission for approval from BHEL/customer	Drawings/Data sheets/Documents/Type Test etc. as called for in the specifications shall be submitted for approval to BHEL for BHEL/customer approval within 30 days of purchase order. Any delay in delivery on account of late submission of drawings/data sheets/QAP/documents shall be to vendors account. BHEL will arrange the approval of the drawings/data sheets/documents within 30 days of their receipt provided those are complete in all respect. Delays in approval shall be dealt on merit basis.	
17	Billing of Material with HSN Code	Material to be dispatched by vendor door delivery up to respective site without consignee copy of GR/LR and original documents to be submitted to HEEP-BHEL with dispatch documents i.e. (invoice, GR, e-way bill, packing list, warranty certificate, Test Report etc). Same month intimation of dispatch is compulsory for further billing by BHEL. 8 Digit HSN code may please be mentioned in Your offer. _____	
18	MDCC clause	Material shall be dispatched only after issue of material dispatch clearance certificate (MDCC) by BHEL. All test certificates and relevant documents are to be sent to BHEL before dispatch of material for issue of MDCC, which will be issued after review of test certificates etc. MDCC will be issued within 07 days of receipt of these documents once found complete in all respects. In case of any delay on account of BHEL in issuing MDCC, delivery shall be extended by no. of days in excess of 7 days taken by BHEL in issuing MDCC and delays shall be dealt on merit basis. In case any material is dispatched without MDCC and any loss is incurred by Supplier/Vendor for any reason whatsoever, BHEL shall not be responsible in any manner to compensate the supplier in this regard. Material is to be dispatched within 07 days of receipt of MDCC from BHEL without waiting for PO amendment.	
19	Guarantee	Kindly confirm that all equipment shall be guaranteed for trouble free performance for 24 months from the date of shipment or 12 months from the date of commissioning, whichever is earlier. Buyer to submit guarantee certificate mentioning above guarantee period. Please note that offers with guarantee period lesser than above mentioned guarantee period may result in rejection of the offer.	
20	Liquidated Damages	If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed Lot per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever. The date of dispatch mentioned on LR/GR would be treated as the date of delivery for penalty purposes. Complete material of each lot to be dispatched in one go only. In case of partial supply, dispatch of last item of lot shall be considered for LD purpose.	
21	Settlement of Dispute, CONCILIATION & ARBITRATION:	Settlement of Dispute If any dispute or difference of any kind whatsoever shall arise between BHEL and the Supplier/Vendor, arising out of the contract for the performance of the work whether during the progress of contract termination, abandonment or breach of the contract, it shall in the first place referred to Designated Officer / IEM for amicable resolution by the parties. Designated Officer / IEM who within 60 days after being requested shall give written notice of his decision to the contractor. Save as hereinafter provided, such decision in respect of every matter so referred shall forthwith be given effect to by the Supplier/Vendor who shall proceed with the work with all due diligence, whether he or BHEL desires to resolve the dispute as hereinafter provided or not. If after the Designated Engineer has given written notice of this decision to the party and no intention to pursue the dispute has been communicated to him by the affected party within 30 days from the receipt of such notice, the said decision shall become final and binding on the parties. In the event the Supplier/Vendor being dissatisfied with any such decision or if amicable settlement cannot be reached then all such disputed issues shall be resolved through conciliation in terms of the BHEL Conciliation Scheme 2018 as per 'CONCILIATION' Clause. CONCILIATION: Any dispute, difference or controversy of whatever nature howsoever arising under or out of or in relation to	

		<p>this Agreement (including its interpretation) between the Parties, and so notified in writing by either Party to the other Party (the "Dispute") shall, in the first instance, be attempted to be resolved amicably in accordance with the conciliation procedure as per BHEL Conciliation Scheme 2018. The proceedings of Conciliation shall broadly be governed by Part-III of the Arbitration and Conciliation Act 1996 or any statutory modification thereof and as provided in - "Procedure for conduct of conciliation proceedings" (as available in www.bhel.com).</p> <p>Note: Ministry of Finance has issued OM reference No. 1/2/24 dated 03.06.2024 regarding "Guidelines for Arbitration and Mediation in Contracts of Domestic Public Procurement. In the said OM it has been recommended that Government departments/ Entities/agencies are to encourage mediation under the Mediation Act. 2023. The said Act has not yet been notified by the Government. Therefore, the clause "Settlement of Disputes" shall be modified accordingly as and when the Mediation Act 2023 gets notified.</p> <p>ARBITRATION:</p> <p>Except as provided elsewhere in this Contract, in case Parties are unable to reach amicable settlement (whether by Conciliation to be conducted as provided herein above or otherwise) in respect of any dispute or difference; arising out of the formation, breach, termination, validity or execution of the Contract; or, the respective rights and liabilities of the Parties; or, in relation to interpretation of any provision of the Contract; or, in any manner touching upon the Contract (hereinafter referred to as the 'Dispute'), then, either Party may, refer the disputes to Arbitral Institution and such dispute to be adjudicated by Sole Arbitrator appointed in accordance with the Rules of said Arbitral Institution.</p> <p>A party willing to commence arbitration proceeding shall invoke Arbitration Clause by giving notice to the other party in terms of section 21 of the Arbitration & Conciliation Act, 1996 (hereinafter referred to as the 'Notice') before referring the matter to arbitral institution. The Notice shall be addressed to the Head of the Region, Power Sector/ Unit, BHEL, executing the Contract and shall contain the particulars of all claims to be referred to arbitration with sufficient detail and shall also indicate the monetary amount of such claim including interest, if any.</p> <p>After expiry of 30 days from the date of receipt of aforesaid notice, the party invoking the Arbitration shall submit that dispute to the Arbitral Institutions (shall be identified by the contract issuing agency) and that dispute shall be adjudicated in accordance with their respective Arbitration Rules. The matter shall be adjudicated by a Sole Arbitrator who shall necessarily be a Retd Judge having considerable experience in commercial matters to be appointed/nominated by the respective institution. The cost/expenses pertaining to the said Arbitration shall also be governed in accordance with the Rules of the respective Arbitral Institution. The decision of the party invoking the Arbitration for reference of dispute to a specific Arbitral institution for adjudication of that dispute shall be final and binding on both the parties and shall not be subject to any change thereafter. The institution once selected at the time of invocation of dispute shall remain unchanged.</p> <p>The fee and expenses shall be borne by the parties as per the Arbitral Institutional rules.</p> <p>The Arbitration proceedings shall be in English language and the seat and venue of Arbitration shall be at the court(s) of Haridwar.</p> <p>Subject to the above, the provisions of Arbitration & Conciliation Act 1996 and any amendment thereof shall be applicable. All matters relating to this Contract and arising out of invocation of Arbitration clause are subject to the exclusive jurisdiction of the Court(s) situated at Haridwar , shall have exclusive jurisdiction.</p> <p>Notwithstanding any reference to the Designated Engineer or Conciliation or Arbitration herein, a. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree. Settlement of Dispute clause cannot be invoked by the Contractor, if the Contract has been mutually closed or 'No Demand Certificate' has been furnished by the Contractor or any Settlement Agreement has been signed between the Employer and the Contractor.</p> <p>It is agreed that Mechanism of resolution of disputes through arbitration shall be available only in the cases where the value of the dispute is less than Rs. 10 Crores.</p> <p>In case the disputed amount Claim, Counter claim including interest is Rs. 10 crores and above, the parties shall be within their rights to take recourse to remedies other than Arbitration, as may be available to them under the applicable laws after prior intimation to the other party. Subject to the aforesaid conditions, provisions of the Arbitration and Conciliation Act, 1996 and any statutory modifications or re-enactment thereof as amended from time to time, shall apply to the arbitration proceedings under this clause.</p> <p>In case, multiple arbitrations are invoked (whether sub-judice or arbitral award passed) by any party to under this contract, then the cumulative value of claims (including interest claimed or awarded) in all such arbitrations shall be taken in account while arriving at the total claim in dispute for the subject contract for the purpose of clause mentioned above. Disputes having cumulative value of less than 10 crores shall be resolved through arbitration and any additional dispute shall be adjudicated by the court of competent jurisdiction.</p>	
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22	Integrity Pact	<p>(a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.</p> <table><tr><th>SI</th><th>IEM</th><th>Email</th></tr><tr><td>1.</td><td>Shri Otem Dai, IAS (Retd.)</td><td>iem1@bhel.in</td></tr><tr><td>2.</td><td>Shri Bishwamitra Pandey, IRAS (Retd.)</td><td>iem2@bhel.in</td></tr><tr><td>3.</td><td>Shri Mukesh Mittal, IRS (Retd.)</td><td>iem3@bhel.in</td></tr></table> <p>(b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three-part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.</p> <p>(c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.</p> <p>Note: No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc. on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below:</p> <table><tr><td>Mr. ADESH, Engineer (PPX-BOI) 4th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: adesh@bhel.in Tel: +91 1334 28 1707</td><td>Mr. Sagar Gupta, Manager (PPX-BOI) 4th Floor, Main Administrative Building, HEEP, BHEL Hardwar- 249403, Uttarakhand, India Email ID: sagargupta@bhel.in Tel: +91 1334 28 4175</td></tr></table>	SI	IEM	Email	1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in	2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in	3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in	Mr. ADESH, Engineer (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: adesh@bhel.in Tel: +91 1334 28 1707	Mr. Sagar Gupta, Manager (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL Hardwar- 249403, Uttarakhand, India Email ID: sagargupta@bhel.in Tel: +91 1334 28 4175	
SI	IEM	Email															
1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in															
2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in															
3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in															
Mr. ADESH, Engineer (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL, Hardwar- 249403 Uttarakhand, India Email ID: adesh@bhel.in Tel: +91 1334 28 1707	Mr. Sagar Gupta, Manager (PPX-BOI) 4 th Floor, Main Administrative Building, HEEP, BHEL Hardwar- 249403, Uttarakhand, India Email ID: sagargupta@bhel.in Tel: +91 1334 28 4175																
23	BREACH OF CONTRACT, REMEDIES AND TERMINATION:	<p>The following shall amount to breach of contract:</p> <p>I. Non-supply of material/ non-completion of work by the Supplier/Vendor within scheduled delivery/ completion period as per contract or as extended from time to time.</p> <p>II. The Supplier/Vendor fails to perform as per the activity schedule and there are sufficient reasons even before expiry of the delivery/ completion period to justify that supplies shall be inordinately delayed beyond contractual delivery/ completion period.</p> <p>III. The Supplier/Vendor delivers equipment/ material not of the contracted quality.</p> <p>IV. The Supplier/Vendor fails to replace the defective equipment/ material/ component as per guarantee clause.</p> <p>V. Withdrawal from or abandonment of the work by the Supplier/Vendor before completion as per contract.</p> <p>VI. Assignment, transfer, subletting of Contract by the Supplier/Vendor without BHEL's written permission resulting in termination of Contract or part thereof by BHEL.</p> <p>VII. Non-compliance to any contractual condition or any other default attributable to Supplier/Vendor.</p> <p>VIII. Any other reason(s) attributable to Vendor towards failure of performance of contract. In case of breach of contract, BHEL shall have the right to terminate the Purchase Order/ Contract either in whole or in part thereof without any compensation to the Supplier/Vendor.</p> <p>IX. Any of the declarations furnished by the contractor at the time of bidding and/ or entering into the contract for supply are found untruthful and such declarations were of a nature that could have resulted in non-award of contract to the contractor or could expose BHEL and/ or Owner to adverse consequences, financial or otherwise.</p> <p>X. Supplier/Vendor is convicted of any offence involving corrupt business practices, antinational activities or any such offence that compromises the business ethics of BHEL, in violation of the Integrity Pact entered into with BHEL has the potential to harm the overall business of BHEL/ Owner.</p> <p>Note-Once BHEL considers that a breach of contract has occurred on the part of Supplier/Vendor, BHEL shall notify the Supplier/Vendor by way of notice in this regard. Contractor shall be given an opportunity to rectify the reasons causing the breach of contract within a period of 14 days.</p> <p>In case the contractor fails to remedy the breach, as mentioned in the notice, to the satisfaction of BHEL, BHEL shall have the right to take recourse to any of the remedial actions available to it under the relevant provisions of contract.</p> <p>Remedies in case of Breach of Contract.</p> <p>i) Wherein the period as stipulated in the notice issued under above clause has expired and Supplier/Vendor has failed to remedy the breach, BHEL will have the right to terminate the contract on the ground of "Breach of Contract" without any further notice to contractor.</p> <p>ii) Upon termination of contract, BHEL shall be entitled to recover an amount equivalent to 10% of the Contract Value for the damages on account of breach of contract committed by the Supplier/Vendor. This amount shall be recovered by way of encashing the security instruments like performance bank guarantee etc available with BHEL against the said contract. In case the value of the security instruments available is less than 10% of the contract value, the balance amount shall be recovered from other financial remedies (i.e. available bills of the Supplier/Vendor, retention amount, from the money due to the Supplier/Vendor etc. with BHEL) or the other</p>															


		<p>legal remedies shall be pursued.</p> <p>iii) wherever the value of security instruments like performance bank guarantee available with BHEL against the said contract is 10% of the contract value or more, such security instruments to the extent of 10% contract value will be encashed. In case no security instruments are available or the value of the security instruments available is less than 10% of the contract value, the 10% of the contract value or the balance amount, as the case may be, will be recovered in all or any of the following manners:</p> <p>iv) In case the amount recovered under sub clause (a) above is not sufficient to fulfil the amount recoverable then; a demand notice to deposit the balance amount within 30 days shall be issued to Supplier/Vendor.</p> <p>v) If Supplier/Vendor fails to deposit the balance amount within the period as prescribed in demand notice, following action shall be taken for recovery of the balance amount:</p> <p>a) from dues available in the form of Bills payable to defaulted Supplier/Vendor against the same contract.</p> <p>b) If it is not possible to recover the dues available from the same contract or dues are insufficient to meet the recoverable amount, balance amount shall be recovered from any money(s) payable to Supplier/Vendor under any contract with other Units of BHEL including recovery from security deposits or any other deposit available in the form of security instruments of any kind against Security deposit or EMD.</p> <p>vi) In-case recoveries are not possible with any of the above available options, Legal action shall be initiated for recovery against defaulted supplier/Vendor.</p> <p>vii) It is an agreed term of contract that this amount shall be a genuine pre-estimate of damages that BHEL would incur in completion of balance contractual obligation of the contract through any other agency and BHEL will not be required to furnish any other evidence to the Supplier/Vendor for the purpose of estimation of damages.</p> <p>viii) In addition to the above, imposition of liquidated damages, debarment, termination, de-scoping, short-closure, etc., shall be applied as per provisions of the contract.</p> <p>Note:</p> <p>1) The defaulting Supplier/Vendor shall not be eligible for participation in any of the future enquiries floated by BHEL to complete the balance work. The defaulting contractor shall mean and include:</p> <p>(a) In case defaulted Supplier/Vendor is the Sole Proprietorship Firm, any Sole Proprietorship Firm owned by same Sole Proprietor.</p> <p>(b) In case defaulted Supplier/Vendor is The Partnership Firm, any firm comprising of same partners/ some of the same partners; or sole proprietorship firm owned by any partner(s) as a sole proprietor.</p>	
24	Suspension of Business Dealings with Suppliers / Contractors:	<p>The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms / principal / agents, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.</p> <p>If any bidder / supplier / contractor during pre-tendering / tendering / post tendering / award / execution / post-execution stage indulges in any act, including but not limited to, 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 tampers the tendering process or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860(Bhartiya Nyaya Samhita 2023) or any other law in force in India, or does anything which is actionable under the Guidelines for Suspension of Business dealings, action may be taken against such bidder / supplier / contractor as per extant guidelines of the company available on www.bhel.com and / or under applicable legal provisions. Guidelines for suspension of business dealings is available in the webpage: http://www.bhel.com/vender_registration/vender.php.</p>	
25	CONFLICT OF INTEREST AMONG BIDDERS/ AGENTS	<p>A bidder shall not have conflict of interest with other bidders. Such conflict of interest can lead to anti-competitive practices to the detriment of Procuring Entity's interests. The bidder found to have a conflict of interest shall be disqualified. A bidder may be considered to have a conflict of interest with one or more parties in this bidding process, if:</p> <p>a) they have controlling partner (s) in common; or</p> <p>b) they receive or have received any direct or indirect subsidy/ financial stake from any of them; or</p> <p>c) they have the same legal representative/agent for purposes of this bid; or</p> <p>d) they have relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder, or</p> <p>e) Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all bids in which the parties are involved. However, this does not limit the inclusion of the components/ sub-assembly/ Assemblies from. one bidding manufacturer in more than one bid; or</p> <p>f) In cases of agents quoting in offshore procurements, on behalf of their principal manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorise only one agent/dealer. There can be only one bid from the following:</p> <p>1. The principal manufacturer directly or through one Indian agent on his behalf; and</p> <p>2. Indian/foreign agent on behalf of only one principal, -</p> <p>or</p> <p>g) A Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the contract that is the subject of the Bid, or</p> <p>h) In case of a holding company having more than one independently manufacturing units, or more than one unit having common business ownership/management, only one unit should quote. Similar restrictions would apply to closely related sister companies. Bidders must proactively declare such sister/ common business/ management units in same/ similar line of business. "</p>	
26	MICRO AND SMALL	Any Bidder falling under MSE category shall furnish the following details & submit documentary evidence/ Govt. Certificate etc. in support of the same along with their techno-commercial offer.	



	ENTERPRISES (MSE):	Type under MSE	SC/ST owned	Women owned	Others (excluding SC/ ST & Women Owned)		
		Micro					
		Small					
		<p>Note: If the bidder does not furnish the above, offer shall be processed construing that the bidder is not falling under MSE category.</p> <p>a) MSE suppliers can avail the intended benefits in respect of the procurements related to the Goods and Services only (Definition of Goods and Services as enumerated by Govt. of India vide Office Memorandum F. No. 21(8)/2011-MA dtd. 09/11/2016 office of AS & DC, MSME) only if they submit along with the offer, attested copies of either Udyam Registration. Date to be reckoned for determining the deemed validity will be the last date of Technical Bid submission. Non-submission of supporting document in GeM portal will lead to consideration of their bids at par with other bidders. No benefits shall be applicable for this enquiry if the above required documents are not uploaded at the time of bid submission. Documents submitted by the bidder shall be verified by BHEL for rendering the applicable benefits.</p>					
27	JURISDICTION:	This contract shall be governed by the Law for the time being in force in the Republic of India. Subject to clause(s) mentioned above of this contract, the Civil Court having original Civil Jurisdiction at Haridwar shall alone have exclusive jurisdiction in regard to all matters in respect of the Contract.					
28	Force Majeure	<p>"Force Majeure" shall mean circumstance which is: a) beyond control of either of the parties to contract, b) either of the parties could not reasonably have provided against the event before entering into the contract, c) having arisen, either of the parties could not reasonably have avoided or overcome, and d) is not substantially attributable to either of the parties And Prevents the performance of the contract, Such circumstances include but shall not be limited to: i) War, hostilities , invasion, act of foreign enemies. ii) Rebellion, terrorism, revolution, insurrection, military or usurped power, or civil war. iii) Riot, commotion or disorder by persons other than the contractor's personnel and other employees of the contractor and sub-contractors. iv) Strike or lockout not solely involving the contractor's personnel and other employees of the contractor and sub-contractors. v) Encountering munitions of war, explosive materials, ionizing radiation or contamination by radio-activity, except as may be attributable to the contractor's use of such munitions, explosives, radiation or radio- activity. vi) Natural catastrophes such as earthquake, tsunami, volcanic activity, hurricane or typhoon, flood, fire, cyclones etc. vii) Epidemic, pandemic etc.</p> <p>The following events are explicitly excluded from Force Majeure and are solely the responsibilities of the non-performing party: a) any strike, work-to-rule action, go slow or similar labour difficulty (b) late delivery of equipment or material (unless caused by Force Majeure event) and (c) economic hardship.</p> <p>If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within 15 (fifteen) days after the occurrence of such event.</p> <p>The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended by a period of time equal to period of delay caused due to such Force Majeure event.</p> <p>Delay or non-performance by either party hereto caused by the occurrence of any event of Force Majeure shall not</p> <p>i) Constitute a default or breach of the Contract. ii) Give rise to any claim for damages or additional cost expense occasioned thereby, if and to the extent that such delay or non-performance is caused by the occurrence of an event of Force Majeure.</p> <p>BHEL at its discretion may consider short closure of contract after 1 year of imposition of Force Majeure in line with extant guidelines. In any case, Supplier/Vendor cannot consider deemed short-closure after 1 year of imposition of Force Majeure</p>					
29	Cartel Formation	The Bidder declares that they will not enter into any illegal or undisclosed agreement or understanding, whether formal or informal with other Bidder(s). This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process. In case, the Bidder is found having indulged in above activities, suitable action shall be taken by BHEL as per extant policies/ guidelines.					
30	Fraud Prevention Policy:	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.					
31	Order of Precedence:	<p>In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:</p> <p>a. Amendments/Clarifications/Corrigenda etc. issued in respect of the tender documents by BHEL.</p> <p>b. Buyer Added Bid Specific ATC</p>					





		c. GeM Bid Technical Conditions of Contract (TCC) d. GeM GTC	
32	Contact details	Please provide 2 Nos of contact details (email id and contact no.) for clarifications. 1..... 2.....	
33	<p style="text-align: center;">DECLARATION REGARDING MINIMUM LOCAL CONTENT IN LINE WITH</p> <p style="text-align: center;">REVISED PUBLIC PROCUREMENT (PREFERENCE TO MAKE IN INDIA), ORDER 2017 DATED 04TH JUNE, 2020 AND SUBSEQUENT ORDER(S) (To be typed and submitted in the Letter Head of the Entity/Firm providing certificate as applicable)</p> <hr style="border-top: 1px dashed black;"/> <p>Sub: Declaration reg. minimum local content in line with Public Procurement (Preference to Make in India), Order 2017-Revision, dated 04th June, 2020 and subsequent order(s).</p> <p>Ref: 1) GeM Bid Specification No: 2) All other pertinent issues till date</p> <p>We hereby certify that the items/works/services offered by..... <i>(specify the name of the organization here)</i> has a local content of _____ % and this meets the local content requirement for ‘Class-I local supplier’ / ‘Class II local supplier’ ** as defined in Public Procurement (Preference to Make in India), Order 2017-Revision dated 04.06.2020 issued by DPIIT and subsequent order(s).</p> <p>The details of the location(s) at which the local value addition is made are as follows:</p> <p>1. _____ 2. _____ 3. _____ 4. _____ ...</p> <p>Thanking you, Yours faithfully,</p> <div style="text-align: right; margin-top: 200px;"> (Signature, Date & Seal of Authorized Signatory of the Bidder) </div>		



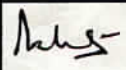
Sr. No.	PRE-QUALIFICATION REQUIREMENTS	VENDOR RESPONSE										
1.	Bidder shall be the manufacturer or authorized supplier of OEM of Pressure Transmitters. Accordingly, any legal document or Letter of authorization shall be submitted respectively in support of this.											
2.	<p>Bidder must have successfully supplied at least 100 or more pressure transmitters in last 7 years from date of enquiry. Bidder needs to furnish un-priced copy of purchase order (PO) in support of above and furnish data in following format.</p> <table border="1"> <thead> <tr> <th>(Project/ Customer Name)</th> <th>PO ref no. & date</th> <th>(Pressure Transmitter range)</th> <th>Qty.</th> <th>Contact details of customer (email and/or phone number, etc.)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	(Project/ Customer Name)	PO ref no. & date	(Pressure Transmitter range)	Qty.	Contact details of customer (email and/or phone number, etc.)						
(Project/ Customer Name)	PO ref no. & date	(Pressure Transmitter range)	Qty.	Contact details of customer (email and/or phone number, etc.)								
3.	Bidder to confirm that offered model series of transmitters have been successfully operational in Power plants/refineries/etc. for at least 1 year, in at least two projects. Bidder to submit Unpriced PO copies and supporting document (Performance Certificate, if BHEL PO is not available) in support of same. The supporting documents shall not be older than 7 years from date of enquiry.											
4.	Bidders who are supplying offered model series to BHEL Haridwar for the first time will have to provide extended warranty of 2 years over and above specification requirement. Bidder to confirm.											
5.	<p>General technical requirements shall be as below. Bidder to confirm against each point: -</p> <p>TECHNICAL REQUIREMENTS: -</p> <ul style="list-style-type: none"> a) Type of transmitter : SMART microprocessor based ,2 Wire 24V DC,+/-10% b) Sensor type : Capacitance/Inductive/Silicone resonance c) Output signal range : 4-20mA DC with digital communication (HART protocol) d) Accuracy : 0.065% of calibrated span e) Response time : <100 mSec f) Protection : IP67 g) Local indication : Required h) Diagnostics : Self Indicating feature i) Wetted parts : SS316 j) Electrical connection : 3 Pin Plug Connector k) Process connection : G1/2 " Male (Bottom entry) 											
6.	Bidder to provide catalogue of offered items in support of technical specification along with addendum (if applicable).											
7.	Bidders will be required to submit Type test reports at the time of technical evaluation.											
8.	Bidders will be required to submit certification for SIL2, as applicable at the time of technical evaluation.											
<p>Note: Bidder to confirm specific compliance wherever asked. BHEL reserves the right to verify information submitted by Bidder. In case the information is found false/ incorrect/ incomplete, the offer shall be rejected.</p>												



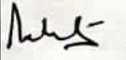
दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक PRODUCT STANDARD	ST 48010 पृष्ठ 8 का 1 Page 1 of 8
सामग्री सूची संख्या को अंकित किया गया है	SUPERSEDES INVENTORY NO.	<u>PRESSURE/DIFFERENTIAL PRESSURE TRANSMITTER/ TRANSMITTER FOR FLOW (SMART TYPE)</u>	
1.0 SCOPE: This specification covers the technical requirements of Electronic Pressure Transmitter used for gauge pressure, absolute pressure, differential pressure and flow measurements. The transmitter shall be complete with sensing element, amplifier etc. To suit the input pressure, output signal range, power supply and other technical requirements.			
1.1 APPLICATION: It shall be suitable for power plant applications for steam water and oil services. The transmitter shall be of proven performance & highest reliability.			
1.2 DESIGNATION: A pressure transmitter to this standard of range 0-025 Kg/Cm2 and size no. 005 shall be designated as follows :			
On Drawing			
i) Drg. No. Column : ST 48010.007 ii) Description Column : Press. Transmitter 0-025 Kg/Cm2 iii) Material Specification column : ST 48010 iv) Material Code column : W97372651069			
For placing Purchase Indents: i) Pressure transmitter 0-025 Kg/Cm2. ST 48010.005			
2.0 COMPLIANCE WITH NATIONAL STANDARD: There is no Indian standard on the above subject. However assistance has been taken from BS6447 and data sheets of various Manufacturers.			
सामग्री सूची संख्या INVENTORY NO.	हस्ताक्षर एवं दिनांक SIGN & DATE	स्वत्वाधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत हेतु इलेक्ट्रिकल को सम्पत्ति है इसका प्रत्यक्ष एवं अप्रत्यक्ष रूप से किसी भी तरह प्रयोग, जो कि कंपनी के हित में हानिकारक हो न किया जाए	
P-5731	23/8/03	TSX D.L. OBEROI QAX S.K. ARORA MEMBER P.S.C. N.R. DEY	
सहमत विभाग AGREED DEPTT.		नाम NAME दिनांक एवं हस्ताक्षर DATE & SIGNATURE	
GRIJ LAL RAM RAJ NISHA PTIA		अनुवादक TRANSLATED BY निर्माणकर्ता WORKED BY जांचकर्ता CHECKED BY पर्यवेक्षणकर्ता SUPERVISED BY	
REV. NO. 05 Dt. 23/08/2022		21/8/03 29/03/22 06/04/22	
APPROVED : PREPARED : STE		S.K. SHARMA K.B. BATRA GR 3.50 DATE: 20.8.88	
CHANGE ADVICE NO.- TSX(CIE)-22-120			



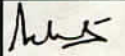
दिनांक एवं हस्ताक्षर SIGN & DATE		उत्पाद मानक PRODUCT STANDARD		ST 48010 पृष्ठ 8 का 2 Page 2 of 8	
सामग्री सूची संख्या को अधिकृतित करता है SUPERSEDES INVENTORY NO.	<p>3.0 TECHNICAL REQUIREMENTS</p> <p>3.1 MEASURING PRINCIPLE : Variable capacitance or any other principle well proven for power plant application involving electromagnetic noise. Bidder shall furnish all details required to establish the provenness.</p> <p>3.2 TYPE: The Transmitter shall be intelligent (SMART) two-wire type. It shall have the capability of remote ranging and self-diagnostics and shall be able to communicate digitally with a higher order control system through suitable interfaces.</p> <p>3.3 OUTPUT: Linear 4-20mA D.C.with a superimposed digital signal. Digital signal shall be as per latest version of Highway Addressable Remote Transducer (HART) protocol. Digital communication with the transmitter shall in no way affect the analog output.</p> <p>3.4 POWER SUPPLY: Transmitter shall be capable of operation at a dc voltage from +15 to +30 Volt. Load-voltage curve shall be furnished along with the offer. Minimum load shall be 600 ohm at 24 V DC</p> <p>3.5 FIELD COMMUNICATOR: It shall be possible to diagnose, calibrate and adjust all transmitter parameters from a hand held field communicator and from a remote PC. The field communicator and the PC based configuration software shall be offered as an optional item. Field communicator shall be battery operated.</p> <p>3.6 DIGITAL COMMUNICATION: Necessary Protocol and configuration details shall be furnished by the supplier, if desired by BHEL, to establish a digital link with BHEL's DDC system/ PC based configuration station.</p> <p>3.7 LOCAL ADJUSTMENTS: Local span and zero adjustments shall also be provided. Which shall be lockable.</p> <p>3.8 FLOW MEASUREMENT: If the requirement of Flow Transmitter is specified in the enquiry, The output shall be Square root extracted.</p> <p>3.9 LOCAL INDICATOR: Transmitter shall have local digital indication</p>				
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स्वत्वाधिकार एवं गोपनीय इस दस्तावेज में दी गई सूचना भारत भारती इलेक्ट्रिकल्स की संपत्ति है इसका प्रयोग एवं आवरण केवल से किसी भी तरह प्रयोग, जो कि कंपनी के हित में सांख्यिकारक हो न किया जाए ।					
हस्ताक्षर एवं दिनांक SIGN & DATE 3/11/04					
सामग्री सूची संख्या INVENTORY NO. P-5731	REV. NO. 05		निर्माणकर्ता WORKED BY	S.K. SHARMA Sd/-	8.9.04
			जांचकर्ता CHECKED BY	K.B. BATRA Sd/-	8.9.04

दिनांक एवं हस्ताक्षर दिनांक एवं हस्ताक्षर		उत्पाद मानक PRODUCT STANDARD	ST 48010 पृष्ठ 8 का 3 Page 3 of 8		
SUPERSEDES INVENTORY NO. सामग्री सूची संख्या को अधिकारित करता है	4.0 PERFORMANCE SPECIFICATIONS: 4.1 ACCURACY: $\pm 0.075\%$ or better of calibrated span (inclusive of hysteresis, linearity & repeatability) at turn down ratio of 10:1 or less. (For Absolute Pressure Range $\pm 0.1\%$ or Better) 4.2 ENVIROMENTAL CONDITIONS: <u>Ambient temp.</u> : -20 to + 80° C. <u>Storage temp.</u> : -20 to +80° C. <u>Humidity.</u> : Continuous operation at RH of 95%. 4.3 DRIFT (LONG TERM): Less than $\pm 0.15\%$ of span in <u>three years</u> . (For Absolute Pressure Range Less than $\pm 0.1\%$ of span in one year) 4.4 SUPPLY VOLTAGE EFFECT. : Less than 0.005 % per volt. 4.5 TEMPERATURE EFFECT. : Less than $\pm 0.05\%$ of span per 100° C. 4.6 ZERO ELEV.AND SUPPRESS: Anywhere within the range limits maintaining minimum allowable span. 4.7 TURN ON TIME: Max. 10 sec after power is applied to the transmitter. 4.8 DAMPING: Min 0-16 second, selectable in steps. 4.9 VIBRATION EFFECT: $\pm 0.2\%$ of span per g at 200 Hz in any axis. 4.10 RESPONSE TIME: Transmitter response time (63 % as per BS6447) shall be <150 ms. This shall include the dead time. Response time for output to reach 1% of the final value shall also be informed by the supplier. 4.11 OVER RANGE PRESSURE: The Transmitter shall be capable of withstanding the over range pressure as given in BS 6447. 4.12 Transmitter shall be immune to interference from electromagnetic noise. When a 1V, 50 m Hz alternating voltage is superimposed on the o/p signal, the change in mean dc level of output current shall not exceed 0.1% of output span. 4.13 UPDATE TIME: Worst case output update time shall be 50 m sec. 4.14 MOUNTING POSITION EFFECT: Zero shift should be able to be calibrated out by zero adjustment.				
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स्वत्वाधिकार एवं गोपनीय इस प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रयोग एवं प्रसारण के बिना कम्पनी के लिखित अनुमति के बिना न किया जाए।					
हस्ताक्षर एवं दिनांक SIGN & DATE 					
सामग्री सूची संख्या INVENTORY P-5731	REV. NO. 0		निर्माणकर्ता WORKED BY S.K. SHARMA	जांचकर्ता CHECKED BY K.B. BATRA	8.9.04 8.9.04

SUPERSEDES INVENTORY सामग्री सूची संख्या को अपडेटिंग करना है	SIGN & DATE 	उत्पाद मानक (हीप : हरिद्वार) PRODUCT STANDARD (HEEP: HARIDWAR)		ST48010	
				पृष्ठ 8 Page 4	का 4 Of 8
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical. Limited It must not be used directly or indirectly in any way detrimental to the interest of the company		<p>5.0 PHYSICAL SPECIFICATIONS:</p> <p>5.1 HOUSING: Cast Aluminum Stoving enamel painted weather proof.</p> <p>5.2 PROTECTION CLASS: IP 67</p> <p>5.3 WETTED PARTS: SS 316</p> <p>5.4 PROCESS CONNECTION: G 1/2" Male. In case an adopter is used to provide G 1/2" connection, it shall be factory fitted on the Transmitter. (REF.FIG.-1,SH-8).</p> <p>5.5 FLANGE MATERIAL: SS (In case of DPT).</p> <p>5.6 ELECTRICAL CONNECTION: Three Pin Plug receptacle connector (Amphetroneics/Allied make Or equivalent). Male part of the connector will be fixed with the Transmitter.</p> <p>5.7 MOUNTING BRACKET: Transmitter shall be supplied with bracket for panel mounting along with Necessary fastners to mount the transmitter on the bracket. 04 Nos. mounting studs of size M10x70 With fine threads (material CS) shall be supplied for DPT and Flow transmitters only.</p> <p>6.0 TURN DOWN RATIO: Minimum turn down ratio shall be 100:1 (for absolute pressure range minimum turn down ratio shall be 25:1). By using turndown ratio of the Transmitter, minimum variety of models shall be selected to cover all the ranges mentioned in the enquiry. It may be noted that specified accuracy is to be maintained for the calibrated rated range in each case.</p> <p>7.0 IDENTIFICATION TAG: A blank stainless steel tag of size 60x20 mm shall be fastened with each Transmitter.</p> <p>8.0 TESTS: Following tests shall be carried out by the supplier on each transmitter.</p> <p>8.1 ROUTINE TESTS:</p> <ul style="list-style-type: none"> a) Visual and dimensional check. b) Pressure range versus output signal test. c) Accuracy test. d) Test for adjustability of range. e) Process and electrical connection. 			
स्वत्ताधिकार एवं गोपनीय इस प्रलेख में की गई सूचना भारत के विद्युत विभाग के अधिनियम के अन्तर्गत है। इसका प्रयोग केवल उद्देश्य के लिए ही किया जा सकता है। इसमें उल्लेखित जानकारी को बिना अनुमति के किसी अन्य व्यक्ति को देना या प्रसारित करना गैर कानूनी है।		SIGN & DATE 			
सामग्री सूची संख्या INVENTORY NO. P-5731	REV. NO. 05			निर्माणकर्ता WORKED BY BRIJ LAL RAM	06.04.16 
				जांचकर्ता CHECKED BY MAYURI	06.04.16 

<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> दिनांक एवं हस्ताक्षर SIGN & DATE </div>		उत्पाद मानक PRODUCT STANDARD		ST 48010	
				पृष्ठ 8 का 5 Page 5 of 8	
<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> सामग्री सूची संख्या को अधिकृतित करता है SUPERSEDES INVENTORY </div>	<p>8.2 TYPE TESTS:</p> <p style="text-align: center;">IEC 60529</p> <p>a). Enclosure protection as per A or equivalent national Standard.</p> <p>b). Test for performance characteristics as per specified in clauses 4.3,4.4,4.5,4.9,4.10,4.11,4.12. Method of tests shall be carried out as per BS 6447.</p> <p>9.0 TEST CERTIFICATES:</p> <p>9.1 3 copies of the tests certificate shall be furnished along with each transmitter giving following details:</p> <ul style="list-style-type: none"> i) Name of instrument. ii) Name of manufacturer. iii) Serial no of the instrument. iv) Date of testing. v) BHEL PO NO. vi) Results of tests detailed in clause 8.0. <p>9.2 Certificate of compliance to specification ST48010.</p> <p>10.0 GUARANTEE :</p> <p>A guarantee certificate of trouble free performance for 24 months from the date of shipment or 12 months from the date of commissioning, which ever is earlier, shall be furnished by the supplier.</p> <p>11.0 DOCUMENTS:</p> <p>Data sheet (<u>Mentioning all the clauses 3.0 to 6.0</u>) of offered transmitters shall be furnished by the bidder for BHEL/Owner's approval. Two copies of detail technical literatures, operation and maintenance manuals shall be furnished with the offer .</p> <p>Complete technical literature is also to be furnished in "<u>SOFT FORM</u>" in a <u>CDROM</u> after placement of order.</p> <p>12.0 DEVIATIONS:</p> <p>Deviations from these specifications, if any, shall be clearly brought out in the offer.</p>				
<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> स्वत्वाधिकार एवं गोपनीय इस प्रलेख में की गई सूचना भारत हेवी इलेक्ट्रिकल्स की सम्पत्ति है इसका प्रसारण एवं प्रयोक्ता रूप से किसी भी तरह प्रयोग, जो कि: कम्पनी के हित में हानिकारक हो न किया जाए </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company </div> </div>					
<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> दिनांक एवं हस्ताक्षर SIGN & DATE </div>	<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> सामग्री सूची संख्या INVENTORY NO. P-5731 </div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> दिनांक एवं हस्ताक्षर SIGN & DATE 23/8/03 </div> </div>				
<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> सामग्री सूची संख्या INVENTORY NO. </div>	REV. NO. 05		निर्माणकर्ता WORKED BY	S.K. SHARMA 	21/8/03
			जांचकर्ता CHECKED BY	K.B. BATRA 	21-8-03

दिनांक एवं हस्ताक्षर SIGN & DATE			उत्पाद मानक PRODUCT STANDARD		ST 48010 पृष्ठ 8 का 6 Page 6 of 8	
सामग्री सूची संख्या को INVENTORY NO.	SUPERSEDES INVENTORY NO.	<p>13.0 PACKING : Each instrument with dehydrating agent shall be sealed individually in a polythene sheet and packed in a thermo Cole box. Such boxes shall be packed in a carton or case with adequate cushioning material to withstand transit risks without damage.</p> <p>14.0 Supplier shall enclose the list of spare parts required for 3 years normal operation and quote for the same separately.</p> <p>15.0 QUALITY PLAN: Detail quality plan for the tests and checks to be carried out during material induction, manufacturing and at final stage shall be submitted in BHEL's Format along with in house standard procedures/ norms for BHEL's approval.</p> <p>16.0 MARKING : The following details shall be marked on the packing case. (a) Manufacturer's name or trademark. (b) B H E L order number. (c) BHEL standard NO. - ST48010.</p> <p>17.0 NAME PLATE: Each instrument shall have a name plate with the Following details marked on it : (a) Manufacturer's name or trademark. (b) Type of the Instrument. (c) Model Number of the Manufacturer. (d) Maximum Range. (e) Calibrated Span. (f) Accuracy.</p> <p>18.0 CROSS - REFFERED STANDARDS : (1) IEC 60529 (2) BS 6447</p>				
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company						
स्वत्वाधिकार एवं गोपनीय दृष्ट प्रलेख में दी गई सूचना भारत हेवी इलेक्ट्रिकल्स की संपत्ति है इसका प्रयोग एवं प्रसारण रूप से किसी भी तरह प्रयोग, जो कि कंपनी को हित में हानिकारक हो न किया जाए						
दिनांक एवं हस्ताक्षर SIGN & DATE	23/8/03					
सामग्री सूची संख्या INVENTORY NO. P-5731	REV. NO. 05		निर्माणकर्ता WORKED BY	S.K. SHARMA		21/8/03
			जांचकर्ता CHECKED BY	K.B. BATRA		21.8.03

दिनांक एवं हस्ताक्षर SIGN & DATE		<div>भारत भारती</div> <div></div>		उत्पाद मानक		ST 48010	
				PRODUCT STANDARD		पृष्ठ 8 का 7 Page 7 of 8	
SUPERSEDES INVENTORY		A. SIZE NO'S.					
सामग्री सूची संख्या को अधिकारित करता है		DESC.	MEASURING RANGE KG/SQ.CM. OR BAR	SIZE NO. IN CASE OF KG/SQ.CM.	SIZE NO. IN CASE OF BAR		
COPYRIGHT AND CONFIDENTIAL The information on this documents is the property of Bharat Heavy Electrical Limited. It must not be used directly or indirectly in any way detrimental to the interest of the company		01. GAUGE PRESSURE	0-250	001	051		
			0-200	002	052		
			0-060	003	053		
			0-040	004	054		
			0-025	005	055		
			0-016	006	056		
			0-010	007	057		
			0-006	008	058		
			0-004	009	059		
			(-1)-(0)	010	060		
			(-1)-(+3)	011	061		
			(-1)-(+9)	012	062		
			(-0.3)-(-1)	013	063		
			0-100	014	064		
			0-070	015	065		
			0-050	016	066		
			(-1)-(+15)	017	067		
			(-1)-(+1.5)	018	068		
			0-090	019	069		
			0-400	020	070		
	(-1)-(+80)	021	071				
	(-1)-(+30)	022	072				
	(-1)-(+10)	023	073				
प्रमाणित करने वाला SIGN & DATE		REV. NO.		निर्माणकर्ता WORKED BY		S.K. SHARMA	
23/8/03		05					
सामग्री सूची संख्या INVENTORY NO.				जांचकर्ता CHECKED BY		K.B. BATRA	
P-5731							
						21/8/03	
						21.8.03	

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		TO BE FILLED BY BHEL			
BHEL	VENDOR'S NAME	ITEM	Pressure/ Differential Pressure/ Flow Transmitter	QP NO.	QA/BE/QP/902							
				REV.	12							
		DRG. NO.	AS PER PO									
		REV	AS per PO									
		SPEC.	AS per PO									
REV	AS per PO			Page 1 of 3								
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY		REMARKS
								M	B	N		
1	2	3	4	5	6	7	8	9	D	10		11

1.00	RAW MATERIAL												
1.01	Diaphragm, Sensing, Housing & Process Connections (As applicable)	Grade of Material	Major	Chemical	1 Sample / lot	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	COC	√	P	V	-	
1.02	Flange & Wetting Part (As applicable)	Grade of Material	Major	Chemical	1 Sample / lot	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	COC	√	P	V	-	
1.03	Electronic & Other Components (As applicable)	Visual, Make, Range, Type / Model No., Sl. No. & Electric Connection (Plug & Socket Type)	Major	Visual	100%	Ordering specn. / Vendor STD	Ordering specn. / Vendor STD	Internal records	-	P	V	-	
2.00	IN-PROCESS INSPECTION												
2.01		Soundness of fitting, Connection & Terminal Marking	Major	Visual	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Internal records	-	P	-	-	
2.02		Insulation Resistance & Dielectric strength	Major	Electrical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Internal records	-	P	-	-	
3.00	TYPE TESTS												NOTE-1
4.00	ROUTINE TESTS												NOTE-3
4.01		Visual (Input / Output Range, Make, Rating, Type / Model No./ Sl No.) & Dimensions	Major	Visual / Measurement	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	

		LEGEND: ! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER	FOR CUSTOMER USE	
MANUFACTURER/SUBCONTRACTOR				APPROVED BY

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		TO BE FILLED BY BHEL					
BHEL	VENDOR'S NAME	ITEM	Pressure/ Differential Pressure/ Flow Transmitter	QP NO.	QA/BE/QP/902									
				REV.	12									
		DRG. NO.	AS PER PO											
		REV	AS per PO											
		SPEC.	AS per PO											
REV	AS per PO			Page 2 of 3										
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS		FORMAT OF RECORDS		AGENCY		REMARKS
										M	B	N		
1	2	3		4	5	6	7	8		9	D	10		11

4.02		Mechanical Process Connections & Electrical Connections	Major	Visual / Measurement	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.03		Accuracy / Calibration Repeatability	Major	Electrical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.04		Span and Zero Adjustability / Adjustability of Range	Major	Physical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.06		Over Pressure Limit & Pressure Range versus Output Signal Test.	Major	Pressure	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.07		Power Supply Voltage Effect (As Applicable)	Major	Electrical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.08		Insulation Resistance (If Applicable)	Major	Electrical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Test Report*	√	P	W	-	
4.09	Completeness of TCs, COCs, & Inspection Reports		Major	Physical	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Documents	√	P	V	-	
5.00	IDENTIFICATION / MARKING & PACKING												
5.01		Identification Marking / Firmness of Tagging of Each Instrument	Major	Visual	100%	Ordering specn./ BHEL Appd Data Sheet	Ordering specn./ BHEL Appd Data Sheet	Internal Records		P	W	-	

		LEGEND: ! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER	FOR CUSTOMER USE	
MANUFACTURER/SUBCONTRACTOR				APPROVED BY

MANUFACTURER'S NAME AND ADDRESS			STANDARD QUALITY PLAN				TO BE FILLED BY BHEL		TO BE FILLED BY BHEL				
BHEL	VENDOR'S NAME	ITEM	Pressure/ Differential Pressure/ Flow Transmitter	QP NO.	QA/BE/QP/902								
				REV.	12								
		DRG. NO.	AS PER PO										
		REV	AS per PO										
		SPEC.	AS per PO										
REV	AS per PO			Page 3 of 3									
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS		CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY		REMARKS
										M	B	N	
1	2	3		4	5	6	7	8	9	D	10		11

5.02		Soundness of Packing Against Transit Damage	Major	Physical	100%	Ordering Specn./ BHEL Appd Data Sheet/ Vendor's STD	Ordering specn./ BHEL Appd Data Sheet	Internal Records		P	-	-	
------	--	---	-------	----------	------	---	---------------------------------------	------------------	--	---	---	---	--

Note:

1. Type tests clearance from BHEL Engineering to be verified by inspection engineer during inspection at vendor's works.
2. Manufacturer to maintain calibrated instruments having better accuracy than the item under the test. Inspection engineer shall check the same.
3. Witness by inspection agency to be random 10% of each material code(minimum 1 pieces per material code) from each lot. However vendor to carry out 100% tests internally and tests report shall be reviewed by inspection engineer during inspection at Vendor's works.
4. For material code having applicable spec ST48010, Transmitter shall be supplied with bracket for panel mounting along with necessary fasteners as per cl. no.-5.7 of BHEL spec. ST48010.

MANUFACTURER/SUBCONTRACTOR		LEGEND:	FOR CUSTOMER USE	
		! RECORDS IDENTIFIED WITH 'TICK' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION.		
		M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER		
				APPROVED BY

2X800MW Adani Project APL 3 to 14 (LIST OF PT/DPT/HHC)						
Sl. No.	MATERIAL CODE	Type	RANGE	KKS TAG	MAIN ITEM QUANTITY PER WO (WO Nos- 10880A11501,10881A11501 10882A11501,10883A11501 10884A11501,10885A11501 10887A11501,10888A11501, 10889A11501,10890A11501, 10891A11501,10892A11501	MANDATORY SPARE QUANTITY per WO (WO Nos- 10880U11502,10882U11502 10884U11502,10887U11502 10889U11502,10891U11502
1	W97372652367	PT	0-400 bar	MAA12CP021 LBA11CP004 LBA11CP005 LBA12CP004 LBA12CP005 MAA14CP021	6	1
2	W97372652383	PT	0-110 bar	LBQ90CP001	1	1
3	W97372652146	PT	0-80 bar	LBB11CP004 LBB11CP005 LBB12CP004 LBB12CP005 LBB21CP001 LBB21CP002 LBB21CP003 LBB22CP001 LBB22CP002 LBB22CP003	10	1
4	W97372652170	PT	0-16 bar	LBG30CP011 LBG30CP012 QFB01CP001	3	1
5	W97372652375	PT	-1 TO 399 bar	MAA50CP001 MAA50CP002 MAA50CP003	3	1
6	W97372652219	PT	-1 TO 79 bar	LBC10CP001 LBC10CP002 LBC10CP003 MAB50CP001	4	1
7	W97372652391	PT	-1 TO 50 bar	MAN52CP011 MAN55CP011	2	1
8	W97372652340	PT	-1 TO 39 bar	LBQ70CP001	1	1
9	W97372652359	PT	-1 TO 19 bar	LBQ60CP001 LBS50CP001	2	1
10	W97372652332	PT	-1 TO 9 bar	LBS40CP001	1	1
11	W97372652324	PT	-1 TO 3 bar	LBS30CP001	1	1
12	W97372652260	Absolute PT	0-10 abs	MAC11CP001 MAC11CP002 MAC11CP003	3	1

Sl. No.	MATERIAL CODE	Type	RANGE	KKS TAG	MAIN ITEM QUANTITY PER WO (WO Nos- 10880A11501,10881A11501 10882A11501,10883A11501 10884A11501,10885A11501 10887A11501,10888A11501, 10889A11501,10890A11501, 10891A11501,10892A11501	MANDATORY SPARE QUANTITY per WO (WO Nos- 10880U11502,10882U11502 10884U11502,10887U11502 10889U11502,10891U11502
13	W97372652278	Absolute PT	0-1.3 barabs	MAG10CP002	12	1
				MAG10CP003		
				MAG10CP004		
				MAG10CP012		
				MAG10CP013		
				MAG10CP014		
				MAG20CP002		
				MAG20CP003		
				MAG20CP004		
				MAG20CP012		
				MAG20CP013		
				MAG20CP014		
14	W97372651360	Flow Transmitter	0-1800 mbar	MAN53CF001	6	1
				MAN53CF002		
				MAN53CF003		
				MAN56CF001		
				MAN56CF002		
15	W97372652251	DPT	-10 TO 90 mbar	MAW20CP001	2	1
				MAW20CP002		
16	W90313376050	HAND HELD COMMUNICATOR	-	-	1	-

NOTE: TAG PLATES SHOULD BE PUNCHED WITH THE KKS TAG GIVEN IN THE LIST. THE TAG NAME SHOULD BE INDELIABLE. TAG PLATE TO BE TIED ON THE TRANSMITTER WITH THE HELP OF A WIRE.

-sd-
Ahutosh Srivastava
Dy. Manager /CIE

-sd-
Sheetal Singh
Sr. Mgr/CIE

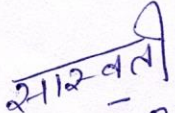
-sd-
Saswati Srivastava
AGM/CIE


Mahan Project

Ref. Indent No.: 20233850

Specific technical requirements over & above specification ST48010:-

1. Accuracy shall be $\pm 0.065\%$ of calibrated span or better.
2. Response time shall be 100 msec or better.
3. Stability shall be as $\pm 0.15\%$ of span in 5 years or better.


Saswati Srivastava
(AGM/CIE)


Mayuri Katiyar
(Mgr/CIE)


REV	DATE	ALTERED	REV	DATE	ALTERED	J.S.B.	GMS No/GRSP No.	STATUS
		CHECKED	01	20/9/06	CHECKED	S.K.S.	CBOM 31337622100	OF DRG
			CHANGE NO.			AGREED	NAME	SIGN
			STE-06-F0218			DEPT.		DATE

GRADE OF UNTOL.DIM.M/CGC/M/F.AA0230208 WELDING A/B/C/D AA0621104 GAS CUTTING-T3 AA0621101

HAND HELD COMMUNICATOR

HAND HELD COMMUNICATOR SHALL BE COMPATIBLE TO THE SMART TYPE TRANSMITTER WITH HART PROTOCOL. IT SHALL BE POSSIBLE TO CONNECT THE HHC ANY WHERE IN THE TRANSMITTER LOOP FOR CARRYING OUT THE FUNCTIONS AS DIFINED BELOW. CONNECTION OF HHC SHALL NOT DISTURB THE 4-20 mA SIGNAL ANYWAY.

- HHC SHALL BE UNIVERSAL TYPE WHICH CAN BE USED FOR ANY HART DEVICE AND APPROVED BY HART FOUNDATION. IT SHALL BE SUITABLE FOR LATEST VERSION OF HART PROTOCOL.
- HHC SHALL BE ABLE TO PERFORM THE FOLLOWING MINIMAM FUNCTIONS.
 - DEVICE SET UP.
 - DIAGNOSTIC MESSAGE DISPLAY.
 - PROCESS VALUE DISPLAY.
 - CHANGE OF ENGINEERING UNITS.
 - LOOP TESTING.
 - RANGE TESTING.
- POWER SOURCE : SUITABLE DC BATTERIES WITH CHARGER.
- KEY BOARD : AN ALPHANUMERIC KEY BOARD CONTAINING ALL REQUIRED FUNCTION KEYS.
- SUITABLE CONNECTORS AND CABLES SHALL BE SUPPLIED BY THE VENDER.
- OPERATING TEMPERATURE RANGE : 0 to 50 Deg /C
- STORAGE TEMPERATURE RANGE : 0 to 60 Deg /C
- ACCESSORY: CARRYING CASE.
- O & M MANUAL IN ENGLISH LANGUAGE TO BE FURNISHED WITH THE OFFER.

S1-29738 INVENTORY No.	16/03/1999 SIGN & DATE	REF.DRG.No.	001	HAND HELD COMMUNICATOR	W90313376050	0	50
			REMARKS	ITEM No.	DESCRIPTION	MATERIAL CODE	UNIT WT.
CARD TYPE 3		28	TYPE 1	28	CARD TYPE 2		
 BHARAT HEAVY ELECTRICALS LTD HARDWAR		NAME		SIGN	DATE	NO. OF	
DEPT. STE		SCALE		WEIGHT(Kg)	REF.TO ASSY.DRG.	ITEM No.	No OF ITEMS
CODE 4011		N. T. S.		0.500	31337622100	15	75
TITLE				DRAWING No.			
HAND HELD COMMUNICATOR				41337622101			
				SHEET No. 01			
				No.OF SHEETS 01			

Annexure-1

INTEGRITY PACT**Between**

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Siri Fort, New Delhi - 110049 (India) hereinafter referred to as "The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART

and

_____, (description of the party along with address), hereinafter referred to as "The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for _____

_____ (hereinafter referred to as "Contract"). The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

In order to achieve these goals, the Principal will appoint panel of Independent External Monitor(s) (IEMs), who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section 1- Commitments of the Principal

- 1.1 The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles: -
 - 1.1.1 No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - 1.1.2 The Principal will, during the tender process treat all Bidder(s) with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/ additional information through which the Bidder(s) could obtain an advantage in relation to the tender process or the contract execution.
 - 1.1.3 The Principal will exclude from the process all known prejudiced persons.
- 1.2 If the Principal obtains information on the conduct of any of its employees which is a penal offence under the Indian Penal Code 1860 and Prevention of Corruption Act 1988 or any other statutory penal enactment, or if there be a substantive suspicion in this regard, the Principal will inform its Vigilance Office and in addition can initiate disciplinary actions.

Section 2 - Commitments of the Bidder(s)/ Contractor(s)

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. The Bidder(s)/ Contractor(s) commits himself to observe the following principles during participation in the tender process and during the contract execution.

- 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material, immaterial or any other benefit which he/ she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant Indian Penal Code (IPC) and Prevention of Corruption Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
- 2.1.4 Foreign Bidder(s)/ Contractor(s) shall disclose the name and address of agents and representatives in India and Indian Bidder(s)/ Contractor(s) to disclose their foreign principals or associates. The Bidder(s)/ Contractor(s) 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.
- 2.2 The Bidder(s)/ Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.3 The Bidder(s)/ Contractor(s) shall not approach the Courts while representing the matters to IEMs and shall await their decision in the matter.

Section 3 - Disqualification from tender process and exclusion from future contracts

If the Bidder(s)/ Contractor(s), before award or during execution has committed a transgression through a violation of Section 2 above, or acts in any other manner such as to put his reliability or credibility in question, the Principal is entitled to disqualify the Bidder(s)/ Contractor(s) from the tender process, terminate the contract, if already awarded, exclude from future business dealings and/ or take action as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder (s) from the tender process before award / order acceptance according to Section 3, the Principal is entitled to demand and recover the damages equivalent to Earnest Money Deposit/ Bid Security.
- 4.2 If the Principal is entitled to terminate the Contract according to Section 3, or terminates the Contract in application of Section 3 above, the Bidder(s)/ Contractor (s) transgression through a violation of Section 2 above shall be construed breach of contract and the Principal shall be entitled to demand and recover from the Contractor an amount equal to 5% of the contract value or the amount equivalent to Security Deposit/ Performance Bank Guarantee, whichever is higher, as damages, in addition to and without prejudice to its right to demand and recover compensation for any other loss or damages specified elsewhere in the contract.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 (three) years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason or action can be taken as per the separate "Guidelines on Banning of Business dealings with Suppliers/ Contractors", framed by the Principal.

Section 6 - Equal treatment of all Bidder (s)/ Contractor (s) / Sub-contractor (s)

- 6.1 The Principal will enter into Integrity Pacts with identical conditions as this Integrity Pact with all Bidders and Contractors.
- 6.2 In case of Sub-contracting, the Principal Contractor shall take the responsibility of the adoption of Integrity Pact by the Sub-contractor(s) and ensure that all Sub-contractors also sign the Integrity Pact.
- 6.3 The Principal will disqualify from the tender process all Bidders who do not sign this Integrity Pact or violate its provisions.

Section 7 - Criminal Charges against violating Bidders/ Contractors /Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible panel of Independent External Monitor (s) (IEMs) for this Integrity Pact. The task of the IEMs is to review independently and objectively, whether and to what extent the parties comply with the obligations under this Integrity Pact.
- 8.2 The IEMs are not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The IEMs shall be provided access to all documents/ records pertaining to the Contract, for which a complaint or issue is raised before them as and when warranted. However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.
- 8.4 The Principal will provide to the IEMs sufficient information about all meetings among the parties related to the Contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the IEMs the option to participate in such meetings.

- 8.5 The advisory role of IEMs is envisaged as that of a friend, philosopher and guide. The advice of IEMs would not be legally binding and it is restricted to resolving issues raised by a Bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some Bidders. At the same time, it must be understood that IEMs are not consultants to the Management. Their role is independent in nature and the advice once tendered would not be subject to review at the request of the organization.
- 8.6 For ensuring the desired transparency and objectivity in dealing with the complaints arising out of any tendering process or during execution of Contract, the matter should be examined by the full panel of IEMs jointly, who would look into the records, conduct an investigation, and submit their joint recommendations to the Management.
- 8.7 The IEMs would examine all complaints received by them and give their recommendations/ views to the CMD, BHEL at the earliest. They may also send their report directly to the CVO, in case of suspicion of serious irregularities requiring legal/ administrative action. Only in case of very serious issue having a specific, verifiable Vigilance angle, the matter should be reported directly to the Commission. IEMs will tender their advice on the complaints within 30 days.
- 8.8 The CMD, BHEL shall decide the compensation to be paid to the IEMs and its terms and conditions.
- 8.9 IEMs should examine the process integrity, they are not expected to concern themselves with fixing of responsibility of officers. Complaints alleging mala fide on the part of any officer of the Principal should be looked into by the CVO of the Principal.
- 8.10 If the IEMs have reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant Indian Penal Code / Prevention of Corruption Act, and the CMD, BHEL has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the IEMs may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
- 8.11 After award of work, the IEMs shall look into any issue relating to execution of Contract, if specifically raised before them. As an illustrative example, if a Contractor who has been awarded the Contract, during the execution of Contract, raises issue of delayed payment etc. before the IEMs, the same shall be examined by the panel of IEMs. Issues like warranty/ guarantee etc. shall be outside the purview of IEMs.
- 8.12 However, the IEMs may suggest systemic improvements to the management of the Principal, if considered necessary, to bring about transparency, equity and fairness in the system of procurement.
- 8.13 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Integrity Pact shall be operative from the date this Integrity Pact is signed by both the parties till the final completion of contract for successful Bidder, and for all other Bidders 6 months after the Contract has been awarded. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings.
- 9.2 If any claim is made/ lodged during currency of this Integrity Pact, the same shall be binding and continue to be valid despite the lapse of this Pact as specified above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This Integrity Pact is subject to Indian Laws and exclusive jurisdiction shall be of the competent Courts as indicated in the Tender or Contract, as the case may be.
- 10.2 Changes and supplements as well as termination notices need to be made in writing.
- 10.3 If the Bidder(s)/ Contractor(s) is a partnership or a consortium or a joint venture, this Integrity Pact shall be signed by all partners of the partnership or joint venture or all consortium members.
- 10.4 Should one or several provisions of this Integrity Pact turn out to be invalid, the remainder of this Integrity Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 Only those bidders / contractors who have entered into this Integrity Pact with the Principal would be competent to participate in the bidding. In other words, entering into this Integrity Pact would be a preliminary qualification.
- 10.6 In the event of any dispute between the Principal and Bidder(s)/ Contractor(s) relating to the Contract, in case, both the parties are agreeable, they may try to settle dispute through Mediation before the panel of IEMs in a time bound manner. In case, the dispute remains unresolved even after mediation by the panel of IEMs, either party may take further action as the terms & conditions of the Contract. The fees/expenses on dispute resolution through mediation shall be shared by both the parties. Further, the mediation proceedings shall be confidential in nature and the parties shall keep confidential all matters relating to the mediation proceedings including any settlement agreement arrived at between the parties as outcome of mediation. Any views expressed, suggestions, admissions or proposals etc. made by either party in the course of mediation shall not be relied upon or introduced as evidence in any further arbitral or judicial proceedings, whether or not such proceedings relate to the dispute that is the subject of mediation proceedings. Neither of the parties shall present IEMs as witness in any Alternative Dispute Resolution or judicial proceedings in respect of the dispute that was subject of mediation.

For & On behalf of the Principal
(Office Seal)

Place _____

Date _____

Witness: _____
(Name & Address) _____

For & On behalf of the Bidder/ Contractor
(Office Seal)

Witness: _____
(Name & Address) _____

Clause on IP in the tender

Integrity Pact (IP)

- (a) IP is a tool to ensure that activities and transactions between the Company and its Bidders/ Contractors are handled in a fair, transparent and corruption free manner. Following Independent External Monitors (IEMs) on the present panel have been appointed by BHEL with the approval of CVC to oversee implementation of IP in BHEL.

SI	IEM	Email
1.	Shri Otem Dai, IAS (Retd.)	iem1@bhel.in
2.	Shri Bishwamitra Pandey, IRAS (Retd.)	iem2@bhel.in
3.	Shri Mukesh Mittal, IRS (Retd.)	iem3@bhel.in

- (b) The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory) along with techno-commercial bid (Part-I, in case of two/ three part bid). Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.
- (c) Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to any of the above IEM(s). All correspondence with the IEMs shall be done through email only.

Note:

No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department's officials whose contact details are provided below:

Details of contact person(s):

(1)
Name: _____
Deptt: _____
Address: _____
Phone: (Landline/ Mobile) _____
Email: _____
Fax: _____

(2)
Name: _____
Deptt: _____
Address: _____
Phone: (Landline/ Mobile) _____
Email: _____
Fax: _____