

**BHARAT HEAVY ELECTRICALS LIMITED**

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

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Contact Ph No :0891-6681311
Fax :0891-6681700
Email :mvmurthy@bhel.in
web : www.bhelviz.co.in

Enquiry No (Coll-No)	Enquiry Date	Due Date for Quotation
H151700030	08.09.2017	23.09.2017
Please quote Enquiry No, Date and due date in all correspondences. This is only a request for quotation and not an order. Bid should be submitted in two parts. 1.Techno-commercial bid (Part-I) and 2.Price bid(Part-II) in a separate sealed cover and both covers must be placed in a third cover and sealed. Our Enquiry No., Enq. date & Enq. Due date must be written on all three covers.		

Item	Description	Unit	Quantity	Delivery Quantity	Delivery Date
10	90QHB10CP501 L777419728401001	NO	1.000	1.00	24.11.17
20	90QLB10CP501 L777419728401002	NO	1.000	1.00	24.11.17
30	90QHC10CP501 L777419728401003	NO	1.000	1.00	24.11.17
40	90QHH01CP501 L777419728401004	NO	1.000	1.00	24.11.17
50	90QHH20CP501 L777419728401005	NO	1.000	1.00	24.11.17
60	90QHH40CP501 L777419728401006	NO	1.000	1.00	24.11.17
70	90QHH50CP501 L777419728401007	NO	1.000	1.00	24.11.17
80	90QHH40CP502 L777419728401008	NO	1.000	1.00	24.11.17
90	90QHH40CP503 L777419728401009	NO	1.000	1.00	24.11.17
100	90QHH11CP502 L777419728401010	NO	1.000	1.00	24.11.17
110	90QHH12CP502 L777419728401011	NO	1.000	1.00	24.11.17
120	90QHH11CP501	NO	1.000	1.00	24.11.17

The offers should reach us before 14:00 hrs on the due date of opening of the tender. The offers will be opened after 15.00 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

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

Ananta Sankar
Manager (MP-BOI)

Bharat Heavy Electricals Ltd.
Visakhapatnam

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	L777419728401012				
130	90QHH12CP501 L777419728401013	NO	1.000	1.00	24.11.17
140	PG_SP_001 L777419728401014	NO	1.000	1.00	24.11.17
150	PG_SP_002 L777419728401015	NO	1.000	1.00	24.11.17
160	PG_SP_003 L777419728401016	NO	1.000	1.00	24.11.17
170	QLB30CP502 L777419728401017	NO	1.000	1.00	24.11.17
180	QLA01CP501 L777419728401018	NO	1.000	1.00	24.11.17
190	QLA11CP501 L777419728401019	NO	1.000	1.00	24.11.17
200	QLA12CP501 L777419728401020	NO	1.000	1.00	24.11.17
210	HAN30CP501 L777419728401021	NO	1.000	1.00	24.11.17
220	QHX10CP501 L777419728401022	NO	1.000	1.00	24.11.17
230	QFA10CP501 L777419728401023	NO	1.000	1.00	24.11.17
240	QFB10CP501 L777419728401024	NO	1.000	1.00	24.11.17
250	QLB30CP501 L777419728401025	NO	1.000	1.00	24.11.17
260	QLA11CP502	NO	1.000	1.00	24.11.17

The offers should reach us before 14:00 hrs on the due date of opening of the tender. The offers will be opened after 15.00 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

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

Ananta Kumar Reddy
 Manager (MP-BOI)
 Bharat Heavy Electricals Ltd
 Visakhapatnam

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H151700030 / 08.09.2017

	L777419728401026				
270	QLA12CP502	NO	1.000	1.00	24.11.17
	L777419728401027				
280	QLA20CP501	NO	1.000	1.00	24.11.17
	L777419728401028				
290	QLA30CP501	NO	1.000	1.00	24.11.17
	L777419728401029				
300	PG_SP_004	NO	1.000	1.00	24.11.17
	L777419728401030				
310	PG_SP_005	NO	1.000	1.00	24.11.17
	L777419728401031				
320	PG_SP_006	NO	1.000	1.00	24.11.17
	L777419728401032				
330	PG_SP_007	NO	1.000	1.00	24.11.17
	L777419728401033				
340	PG_SP_008	NO	1.000	1.00	24.11.17
	L777419728401034				

General Note:**Enclosures:**

- 1) Special terms & Conditions (7 Sheets)
- 2) Commercial Terms & Conditions (Annexure- A) - (3 Sheets)
- 3) Commercial Terms & Conditions (Annexure- B) - (3 Sheets)
- 4) Technical Delivery Conditions (TDC):
 - a) Spec No.: INST-7774-27-S-002, Rev No. 0 (02 sheets)
 - b) Salient Points for Pressure Gauges, Annexure-I, Rev 0 (01 sheet)
 - c) Standard Quality Plan for pressure gauge:
QA:CI: STD: QP:01 Rev:07 (03 sheets)
 - d) Standard packing procedure: QA:CI: STD: PR: 04, Rev. 02 (04 sheets)
- 5) Price bid Schedule (04 Sheets)
- 6) Annexure- D (02 sheets), 7) Annexure- C

The offers should reach us before 14:00 hrs on the due date of opening of the tender. The offers will be opened after 15.00 hrs on the due date of tender in the presence of tenderers who have submitted their offer and who may like to be present for the tender opening. Late and delayed offers are liable to be rejected.

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

M. V. Murthy
Ananta Srinivas Reddy
 Manager (MP-BOI)

Bharat Heavy Electricals Ltd
 Visakhapatnam

**BHARAT HEAVY ELECTRICALS LIMITED**

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Heavy Plates & Vessels Plant

Visakhapatnam – 530 012, A.P. INDIA

Phone : 0891-668-1311 / 1179

E-mail : mvrmurthy@bhel.in

: ananta@bhe.in

SPECIAL TERMS AND CONDITIONS

Category of Tender : Two-Bid System
Sub : Supply of Pressure Gauges with accessories
RFQ No/Enquiry No. : H151700030 Dt: 08.09.2017

1. We intend to procure **Pressure Gauges with accessories** for which Sealed Quotations are invited in Two-bid system i.e., Price Bid and Technical Bid along with un-priced bid (in duplicate). Sealed Quotations shall be submitted strictly in compliance with Commercial Terms and Conditions (CTC) enclosed at ANNEXURE-A (for Indigenous suppliers) or ANNEXURE-B (for Foreign suppliers) whichever is applicable and Technical Delivery Conditions (TDCs). The offers of those Vendors who do not comply with all the Clauses of CTC and TDCs in total are likely to be rejected. Documents submitted with the offer shall be signed and stamped on each page by authorised representative of the vendor. No deviations are permitted.

The sealed Quotation shall be submitted super scribing our enquiry reference and category of enquiry so as to reach us on or before **14:00 Hrs of 23.09.2017**. The Quotation received after the due date is liable to be rejected. In case any supplier is not in a position to submit the Quotation strictly as per Technical Delivery Conditions (TDC) and Commercial Terms & Conditions (CTC) may submit REGRET letter.

2. Pre- qualification criteria:

The supplier need to submit the supporting documents for the following along with technical bid. **Offers without supporting documents in line with requirement shall not be considered for scrutiny.**

- a) Vendor shall furnish PTR (Proven Track Record) for Pressure Gauges for working satisfactorily for 4000 hrs. in similar applications. At least TWO PTR's shall be furnished by the vendor.
 - b) Vendor shall furnish at least 5 references in last 7 years for our review.
 - c) Bidder shall be Either M/s. BHEL Standard Vendor or M/s. DCPL (M/s Development consultants Pvt Ltd) Approved Vendor or M/s. GSECL (M/s Gujarat State Electricity Corporation Limited) Approved Vendor. Vendor to Note and confirm with supporting documents.
 - d) Bidder shall not be in the Black list of any unit of M/s. BHEL. Vendor to Note and comply.
 - e) Bidder shall not be in the Black list of M/s DCPL. Vendor to Note and comply.
3. Even though any vendor is technically acceptable for BHEL-HPVP, their price bid shall be opened subject to the approval of customer (GSECL, Vadodara) as an approved vendor for this project. In case of rejection by customer, their price bid shall not be opened.

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: ananta@bhe.in

4. Inspection : By BHEL or its authorized Inspection Agency

(Indigenous Supplier needs to register ONLINE in BHEL website (www.cqir.bhel.in) for offering for Inspection for first time. On readiness of ordered material, supplier shall raise the inspection call request online (www.cqir.bhel.in) with minimum notice period of 07 working days to the authorized representative of the Purchaser for inspection/testing as provided in PO). Inspection Charges will be borne by BHEL for Indigenous vendors

BHEL representative from HPVP Unit or Corporate Quality is authorized to carry out audits along with TPIA at vendor's works before clearing the items for dispatch.

Foreign Vendors shall carry out inspection by reputed TPIA viz., Lloyds, BV, TUV and shall quote applicable inspection charges, if any.

After completion of Inspection by TPIA, the scanned copies of Inspection reports, MTCs and other Test Reports applicable as per TDC are to be sent to BHEL for obtaining material dispatch clearance.

5. Technical Delivery Conditions (TDC):

- a) Spec No.: INST-7774-27-S-002, Rev No. 0 (02 sheets)
- b) Salient Points for Pressure Gauges, Annexure-I, Rev 0 (01 sheet)
- c) Standard Quality Plan for pressure gauge: QA:CI: STD: QP:01 Rev:07 (03 sheets)
- d) Standard packing procedure: QA:CI: STD: PR: 04, Rev. 02 (04 sheets)

Vendor shall invariably submit all the Enquiry Documents, Commercial Terms & Conditions by confirming each point with their sign and stamp on each page by authorised representative of the bidder as a token of acceptance of the same.

6. Price Evaluation:

Price shall be considered on Landed Cost basis (Total cost to BHEL). Landed cost shall be worked out on price quoted including Quantity, P&F charges, Testing & Inspection charges, Freight, Transit Insurance, Loadings on Deviations, Customs duty, loading as per customs notifications, GST after taking out Input Tax Credit as applicable. The Price comparative statement shall be worked out on overall Landed cost basis (Total cost to BHEL) for whole package.

- a) The comparative statement of the price prepared on the reference date shall remain firm throughout the period. Any change in duty and tax structure during execution of the contract will not be considered for the re-ranking of vendors.
- b) The lowest price received against BHEL, HPVP tender need not be commercially lowest price (L-1). BHEL, HPVP reserves the right to negotiate the same.
- c) BHEL, HPVP reserves the right/option to REFLOAT the tender if L-1 price is not the lowest acceptable price to BHEL, HPVP.

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- d) The prevailing Exchange rates (TT selling rate of SBI) on the date of opening of Technical Bid shall be considered for Price Evaluation of import offers. If the date of opening of Technical bid happens to be a bank holiday or no forex, then the forex rate as on previous bank (SBI) working day shall be considered.

7. Vendor shall ensure and enclose the following documents to Technical and Un-Priced commercial bids.

- a) Specification / data sheets as per TDC.
- b) If there are any deviations against TDC, the same shall be clearly specified.
- c) Offers received without confirmation to our specification/ data sheets and technical delivery conditions will be rejected.
- d) Catalogues and any other relevant details required for proper and complete technical evaluation of the product offered shall be submitted.

8. **Packing:** Equipment shall be packed as per the requirements of Roadworthy / Seaworthy Packing as per TDC.

9. **Details of submitting the offer:**

Offers shall be submitted in Two Parts.

Part-I : Technical & Un-Priced Bid with Commercial terms and conditions

Part-II : Priced Bid

Above Two bids shall be kept in two separate sealed Covers super scribing the detail of the Type of offer kept inside (Technical / Priced Bid). The two sealed covers should be kept in another cover super scribed with the enquiry reference and details of contents ("Technical and Priced Bids") and the same shall be sent by Post/Courier addressed to **The Senior Manager (Materials Management), Heavy Plates & Vessels Plant, Bharat Heavy Electricals Limited, Visakhapatnam-530012(A.P), India.** (or)

The cover containing both the bids as indicated above, may be personally dropped in the Tender Box placed at Reception counter, Administration building, HPVP, BHEL, Visakhapatnam- 530 012.

In any case, the offers should be submitted on or before the due date. Late offers shall not be entertained.

Any revised offer(s) sent by vendor on their own after the tender opening will be treated as "Unsolicited Offer" and such offers will not be considered.

Offers sent by E-mail or by Fax are Not Acceptable. If you are not interested to quote, Regret letter by Mail shall be sent without fail.

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10. In case of an agent submitting bid on behalf of a Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product. BHEL reserves the right to reject such bids.

11. Bid Opening:

Technical & Un-Priced Bids shall be opened in public on the due date provided sufficient Bidder's offers are received.

Priced bids of qualified bidders shall be opened in Public with prior intimation regarding Date and Time of bid opening.

12. BHEL Fraud Prevention Policy:

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

13. Discrepancy in "Words" & "Figures":

- a) If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
- b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.
- d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

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14. GST Clauses:

The bidder to specify in their offer (part 1 bid) the category of their registration under GST like Registered, Unregistered and composite dealer.

The provisional GST registration number of Bharat Heavy Electrical Ltd, Heavy Plates and Vessels Plant, Visakhapatnam is “37AAACB4146P7Z8” with state Code as “37” and State Name as “Andhra Pradesh”.

No GST will be reimbursed to unregistered or composite dealer. In the event, any GST is quoted by composite dealer, the same shall be added to the cost of supply in evaluating the bid.

Supplier shall mention their GSTN registration number(GSTIN) in all their invoices and invoices shall be in the format as specified/prescribed under GST Laws. Invoices shall necessarily contain invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no commercial invoice no etc., then the invoice No which is linked/uploaded in GSTN Network shall be clearly indicated), item description as per PO Quantity Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN/ SAC Code, etc.

All invoices shall bear the HSN Code for each item separately (Harmonized System of Nomenclature)/ SAC code (Services Accounting Code).

The bidder shall clearly indicate HSN (Harmonised System Nomenclature) / SAC (Service Accounting Code), its description and applicable rate of GST for each item in his techno-commercial bid.

In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied/leviable on BHEL.

In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor along with interest levied / leviable on BHEL.

Vendors must ensure compliance of all the applicable rules and procedure as envisaged in the GST Regime. Any loss to BHEL-HPVP due to fault / noncompliance by the vendor will be to the vendor's account.

Indigenous suppliers need to fill the details in Annexure- D and submit the supporting documents along with their offer without fail.

15. BHEL reserves the right to cancel the Enquiry / Tender at any stage without assigning any reasons thereof. Also, BHEL reserves the right to reject or accept one or any offer without assigning any reason.

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: ananta@bhe.in

16. SPECIAL PROVISION FOR MICRO AND SMALL ENTERPRISES (MSE):

- i) As per the public procurement policy notified by the Central Government, Micro & small Enterprises (MSE) participating in the tender, quoting Price within Price band of L1 + 15 % will be allowed to supply a portion of requirement subject to acceptance of L1 price in a situation where L1 price is from someone other than a Micro & small enterprise & such Micro and small Enterprise shall be allowed to supply up to 20% of Quantity. In case of more than one such MSE, the supply shall be shared proportionately.
- ii) 20% of the tendered quantity is earmarked for MSE suppliers in this tender.
- iii) Special provision for Micro and Small Enterprises owned by SC or ST:
Out of 20% tendered quantity reserved for MSE suppliers, 4% shall be earmarked for procurement from MSE owned by SC/ST entrepreneurs.
- iv) MSE Suppliers can avail the intended benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five Years from the date of issue of acknowledgement in EM-II) OR valid NSIC certificate OR EM II certificate along with attested Copy of a CA certificate (Format enclosed as per Annexure –C where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited), Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents is not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted Officer.
- v) All Micro and Small Enterprises (MSEs) who are having Udyog Aadhaar Memorandum shall also be provided all the benefits available for MSEs under the Public Procurement Policy for Micro and Small Enterprises (MSE), order 2012.
- vi) As these tender items are splittable, if MSE vendor's quoted price is within price band of L1+15%, purchase order will be placed for 20% of tendered value to MSE vendor, subject to the acceptance of L1 price.
- vii) In case 2 (two) or more MSE vendors quote the price within price band of L1+15%, purchase order will be placed on the lowest MSE vendor, subject to the acceptance of L1 price.

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17. **Documentation:** Vendor shall submit material test certificates, manufacturing certificates, Dimensional Reports and Inspection reports as per TDC.
18. **Linking up of Old issues:** In case if you have any outstanding problems with earlier supplies, you should not linkup against this enquiry or PO at later stages.
19. No overdue interest will be payable by BHEL to either supplier or his bankers.
20. All Bank Charges to Vendor account only.
21. The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.
- 1.0 Integrity commitment, performance of the contract and punitive action thereof:
- 1.1 Commitment by BHEL: BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.
- 1.2 Commitment by Bidder/ Supplier/ Contractor:
- 1.2.1 The bidder/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.
- 1.2.2 The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.
- 1.2.3 The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL.

If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extant guidelines of the company available on www.bhel.com and/or under applicable legal provisions.

Bharat Heavy Electricals Limited
Heavy Plates & Vessels Plant – Visakhapatnam -12,
MM / Purchase

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

ANNEXURE-A

Vendor shall invariably enclose this format duly filled with their sign and stamp and enclose to Technical Bid (Part-I). Otherwise, the offer may not be considered

RFQ No/Enquiry No. : H151700030 Dt: 08.09.2017

SL. NO.	DESCRIPTION	BHEL'S REQUIREMENT	SUPPLIER'S CONFIRMATION
1	PAYMENT TERMS	100% payment shall be made within 45 days from the date of receipt and acceptance of materials at BHEL HPVP Stores. However, GST portion of invoice shall be released only upon 1. Vendor declaring the invoice in his GSTR-1. 2. Receipt of Goods and Tax Invoice by BHEL. 3. Confirmation of payment of GST thereon by vendor on GSTN Portal. Any deviation in the above payment terms will attract loading as mentioned below. "Base rate of SBI (as applicable on the date of techno commercial bid opening) + 6% shall be considered for loading for the period of relaxation sought by bidder") <u>Note: Offers with Payment against Proforma Invoice / Advance payment / LC are liable to be rejected.</u>	
2	DELIVERY PERIOD	The acceptable Delivery period shall be within 12 weeks to 16 weeks from the date of Purchase Order to date of LR/Invoice whichever is later. <u>Loading Factor:</u> The offers which do not conform to 12 weeks of delivery period but are within 16 weeks of delivery period shall be loaded for the delayed delivery beyond 12 weeks @ 0.5% per week or part thereof on the offered basic value. Any offer quoting beyond 16 weeks of delivery period will be summarily rejected. Vendor should quote their firm delivery from the date of PO by including time required for the Design, Approval of Drawings, Data Sheets, Documents, Quality Plan, Manufacturing, Testing, Inspection etc.	_____ Weeks from the date of Purchase Order
3	DELIVERY BASIS	FOR BHEL, HPVP Stores, Visakhapatnam	
4	FREIGHT CHARGES	Included. (if extra indicate in %) <u>Transportation up to BHEL, HPVP Stores, Visakhapatnam is in Supplier Scope.</u>	_____ % extra on Basic rate / Included. (Strike out whichever is not applicable)
5	TRANSIT INSURANCE	Included. (if extra indicate in %) <u>Transit Insurance up to BHEL, HPVP Stores, Visakhapatnam is in Supplier Scope.</u>	_____ % / Included (Strike out whichever is not applicable)
6	PACKING & FORWARDING	Included. (if extra indicate in %)	_____ % extra on Basic rate / Included . (Strike out whichever is not applicable)

SL. NO.	DESCRIPTION	BHEL'S REQUIREMENT	SUPPLIER'S CONFIRMATION
7	GST	Please fill the details in the enclosed Annexure- D	
8	TESTING CHARGES (as per TDC)	Included. (if extra indicate in %)	_____ % extra on Basic rate / Included . (Strike out whichever is not applicable)
9	OFFER VALIDITY	90 days from the date of Technical bid opening.	
10	TEST CERTIFICATE	MTC Required as per Material Specification	
11	L.D.CLAUSE	In the event of your failure to dispatch the materials within the delivery period, Liquidated Damages shall be at the rate of 0.5% of the total order value per week of delay or part thereof subject to maximum of 10% of the total order value. LD shall be reckoned from the date of LR/Invoice whichever is later. Any deviation from the above LD clause, loading shall be applied to the extent of relaxation sought to which it is not agreed by the bidder at offered basic value. In case of LD recovery, the applicable GST shall also be recovered from the supplier.	
12	ARBITRATION	Notwithstanding anything contained in any document whatsoever, all questions, matters , disputes and claims relating to and arising out of this contract, shall be referred to sole arbitrator, who shall be appointed by Head of the Unit, BHEL, HPVP, Visakhapatnam at his sole discretion. Such appointment of arbitrator shall not take place unless and until a written request for appointment of arbitrator from any of the parties to the contract has been received by Head of the Unit as aforesaid. The arbitrator shall give his reasoned award. It is a term of this contract that no person other than a person appointed by such Head of the Unit as aforesaid , shall act as arbitrator and if for any reason that is not possible, the matter is not to be referred to arbitration at all. The venue of arbitration shall be such place as may be Fixed by the arbitrator at his sole discretion. The award of arbitrator shall be final, conclusive binding on all the parties to the contract.	
13	JURISDICTION	Not out of this contract including that arise out of arbitration and bank guarantees, shall be initiated, filed and tried only in the courts, tribunals and forums, situated at and having territorial jurisdiction over Visakhapatnam even though such jurisdiction also vests in courts, tribunals & forums situated elsewhere in the country.	
14	RISK PURCHASE	The delivery period stated shall be realistic and shall be strictly adhered to. If the deliveries are not maintained and if on the account, this company is forced to buy the materials elsewhere to avoid any loss or damage that the company may sustain thereby the purchaser is entitled to procure the material at the risk and cost of the seller.	

SL. NO.	DESCRIPTION	BHEL'S REQUIREMENT	SUPPLIER'S CONFIRMATION
15	REJECTION REPLACEMENT	Rejected material, if any, after receipt of material at our end, shall be replaced by you immediately free of cost and also on freight paid basis, failing which Bank Guarantee can be encashed by BHEL.	
16	GUARANTEE CERTIFICATE	Vendor should guarantee the material against all design and manufacturing defects and for performance for a period of 18 months from the date of last dispatch or 12 months from the date of commissioning whichever is earlier. If any defect is noticed during the above period, the same shall be rectified / replaced free of cost on FOR Destination basis within a reasonable time.	
17	FIRM PRICE	Price should be firm till execution of order.	
18	Un-priced schedule	Un-priced schedule of scope of supply as per TDC is to be enclosed with technical bid by the supplier.	
19	VENDOR STATUS (MICRO / SMALL)	a) MICRO / SMALL (To be indicated by vendor and latest copy of supporting documents as mentioned in RFQ shall be furnished along with offer)	
		b) whether owned by SC or ST Entrepreneurs (To be indicated by vendor and latest copy of supporting documents shall be furnished along with offer)	
20	DOCUMENTATION	Vendor shall confirm that all the documentation in specified number of prints will be submitted for the purpose of approval and also for final documentation as per TDC. In the event of order, Vendor should submit all necessary drawings, data sheets, QAP and other relevant documents within 15 days from date of PO for approval.	

The above format shall be completely filled and deviation if any shall be clearly spelt out. The columns which are not applicable shall be mentioned as "Not Applicable". No column should be left blank. Non filling-up of columns may lead to rejection of your offer and also offers of those who do not confirm compliance of all the terms and conditions are likely to be rejected. If there is any difference (in the points accepted/confirmed) between the offer and this filled-up Commercial Terms & Conditions sheet, the later only shall prevail.

Vendor should categorically indicate confirmation of all the points of Technical Delivery Conditions and Commercial Terms & Conditions with signature and stamp at the bottom of each document and submit the same along with the offers. Offers of those who do not confirm compliance of all the terms and conditions are likely to be rejected.

Bharat Heavy Electricals Limited
Heavy Plates & Vessels Plant – Visakhapatnam -12,
MM / Purchase

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

ANNEXURE-B

Vendor shall invariably enclose this format duly filled with their sign and stamp and enclose to Technical Bid (Part-I). Otherwise, the offer may not be considered

RFQ/ Enquiry No: H151700030 Dt: 08.09.2017

SL. NO.	DESCRIPTION	BHEL'S REQUIREMENT	SUPPLIER'S CONFIRMATION
1	PAYMENT TERMS	Payment term is 100% payment shall be made on CAD basis within 45 days from the date of receipt of documents, specified in the PO, at BHEL Bank. Respective bank charges to respective account. Any deviation in the above payment term will attract loading as mentioned below. "Base rate of SBI (as applicable on the date of techno commercial bid opening) + 6% shall be considered for loading for the period of relaxation sought by bidder") Note: Payment terms as CAD at sight and Confirmed LC are liable for rejection .	
2	DELIVERY PERIOD	The acceptable Delivery period shall be within 12 weeks to 16 weeks from the date of Purchase Order to date of Bill of Lading(B/L). <u>Loading Factor:</u> The offers which do not conform to 12 weeks of delivery period but are within 16 weeks of delivery period shall be loaded for the delayed delivery beyond 12 weeks @ 0.5% per week or part thereof on the offered basic value. Any offer quoting beyond 16 weeks of delivery period will be summarily rejected. Vendor should quote their firm delivery from the date of PO by including time required for the Design, Approval of Drawings, Data Sheets, Documents, Quality Plan, Manufacturing, Testing, Inspection etc.	_____ Weeks from the date of Purchase Order
3	DELIVERY BASIS	CFR – CHENNAI (BHEL shall pay only delivery order charges and container detention free period shall be 14 days). In case of shipment through containers on CFR basis, the BL should bear the endorsement that "14 free days for Container Detention is applicable"	
4	PACKING & FORWARDING	Included. (if extra indicate in %)	_____ % extra on Basic rate / Included. (Strike out whichever is not applicable)
5	Documentation Charges	Included. (if extra indicate in %)	_____ % extra on Basic rate / Included. (Strike out whichever is not applicable)
6	INSPECTION CHARGES (Inspection shall be in vendor scope)	Included. (if extra indicate in %)	_____ % extra on Basic rate / Included. (Strike out whichever is not applicable)

SL. NO.	DESCRIPTION	BHEL'S REQUIREMENT	SUPPLIER'S CONFIRMATION
7	TESTING CHARGES (as per TDC)	Included. (if extra indicate in %)	_____ % extra on Basic rate / Included. (Strike out whichever is not applicable)
8	PORT OF LOADING	To be specified by the supplier	
9	OFFER VALIDITY	90 days from the date of Technical bid opening.	
10	TEST CERTIFICATE	MTC Required as per Material Specification and TDC	
11	In case of LC payment, the validity of LC for shipment will be in accordance with the delivery period agreed and for the further 15 days for negotiation of documents from the date of shipment.		
12	The documents are to be negotiated within 15 days from the date of Bill of Lading/ Air Way bill.		
13	The charges towards any LC extension on account of delay in delivery/ reasons attributable to supplier shall be to the beneficiary's account.		
14	L.D.CLAUSE	In the event of your failure to dispatch the materials within the delivery period, Liquidated Damages shall be at the rate of 0.5% of the total order value per week of delay or part thereof subject to maximum of 10% of the total order value. The date of Bill of Lading(B/L) shall be considered for LD calculation purpose. Any deviation from the above LD clause, loading shall be applied to the extent of relaxation sought to which it is not agreed by the bidder at offered basic value.	
15	ARBITRATION	Notwithstanding anything contained in any document whatsoever, all questions, matters , disputes and claims relating to and arising out of this contract, shall be referred to sole arbitrator, who shall be appointed by Head of the Unit, BHEL, HPVP, Visakhapatnam at his sole discretion. Such appointment of arbitrator shall not take place unless and until a written request for appointment of arbitrator from any of the parties to the contract has been received by Head of the Unit as aforesaid. The arbitrator shall give his reasoned award. It is a term of this contract that no person other than a person appointed by such Head of the Unit as aforesaid , shall act as arbitrator and if for any reason that is not possible, the matter is not to be referred to arbitration at all. The venue of arbitration shall be such place as may be Fixed by the arbitrator at his sole discretion. The award of arbitrator shall be final, conclusive binding on all the parties to the contract.	
16	JURISDICTION	Not out of this contract including that arise out of arbitration and bank guarantees, shall be initiated, filed and tried only in the courts, tribunals and forums, situated at and having territorial jurisdiction over Visakhapatnam even though such jurisdiction also vests in courts, tribunals & forums situated elsewhere in the country.	

SL. NO.	DESCRIPTION	BHEL'S REQUIREMENT	SUPPLIER'S CONFIRMATION
17	RISK PURCHASE	The delivery period stated shall be realistic and shall be strictly adhered to. If the deliveries are not maintained and if on the account, this company is forced to buy the materials elsewhere to avoid any loss or damage that the company may sustain thereby the purchaser is entitled to procure the material at the risk and cost of the seller.	
18	REJECTION REPLACEMENT	Rejected material, if any, after receipt of material at our end, shall be replaced by you immediately free of cost and also on freight paid basis, failing which Bank Guarantee can be encashed by BHEL.	
19	GUARANTEE CERTIFICATE	Vendor should guarantee the material against all design and manufacturing defects and for performance for a period of 18 months from the date of last dispatch or 12 months from the date of commissioning whichever is earlier. If any defect is noticed during the above period, the same shall be rectified / replaced free of cost on FOR Destination basis within a reasonable time.	
20	FIRM PRICE	Price should be firm till execution of order.	
21	DOCUMENTATION	Vendor shall confirm that all the documentation in specified number of prints will be submitted for the purpose of approval and also for final documentation as per TDC. In the event of order, Vendor should submit all necessary drawings, data sheets, QAP and other relevant documents within 15 days from date of PO for approval.	
The above format shall be completely filled and deviation if any shall be clearly spelt out. The columns which are not applicable shall be mentioned as "Not Applicable". No column should be left blank. Non filling-up of columns may lead to rejection of your offer and also offers of those who do not confirm compliance of all the terms and conditions are likely to be rejected. If there is any difference (in the points accepted/confirmed) between the offer and this filled-up Commercial Terms & Conditions sheet, the later only shall prevail. Vendor should categorically indicate confirmation of all the points of Technical Delivery Conditions and Commercial Terms & Conditions with signature and stamp at the bottom of each document and submit the same along with the offers. Offers of those who do not confirm compliance of all the terms and conditions are likely to be rejected.			

PREPARED BY: <i>H. Deep</i>	CHK BY: <i>O. K. K. 08/09/15</i>	APPD. BY: <i>H. Deep</i>	BHEL-HPVP UNIT
			Specifications for Pressure Gauges
			PLANT: AUXILIARY BOILER,
			CONSULTANT: M/s. DEVELOPMENT CONSULTANTS PRIVATE LIMITED, KOLKATA
			CUSTOMER: M/S. GSECL VADODARA, GUJARAT
			DOC No. INST-7774-27-S-002
0	08-09-15	Issued with MI	
Rev.	Date	Description	Initial

Sheet No. 1 of 2
Rev. No. 0

A Pressure Gauges					
1.	TYPE	DIRECT	24	DIAPHRAGM SEAL TYPE	NOT REQUIRED
2.	MOUNTING	AS INDICATED IN TABLE BELOW	24.1	WETTED PARTS MATL	NOT APPLICABLE
3.	DIAL SIZE	150MM	24.2	UPPER CHAMBER	
4.	SCALE	WHITE STOVE ENAMELED, NON RUSTING ALLUMINIUM WITH BLACK FIGURES	24.3	LOWER CHAMBER	
5.	CASE MATERIAL	Stainless Steel (Note-9)	24.4	FLANGE MATL.	
6.	BEZEL RING	Bayonet	24.5	TENSION FLANGE	
7.	WINDOW MATL.	■ SHATTER PROOF GLASS (NOTE-6) ■ CLEAR ACRYLIC/TOUGHENED GLASS / AS PER MFR. STD. (For Draft Range Gauges)	24.6	OTHERS MAL.	
8.	ENCLOSURE PROTECTION	Weather Proof to IP-65 as per IS 12063/IS:13947	24.7	SEALING FLUID	
9.	PRESSURE ELEMENT	■ BOURDON ■ Diaphragm / Capsule / Bellows (for Draft Range gauges)	25	CAPILLARY	
10.	ELEMENT & SOCKET MATERIAL	AISI 316 SS	25.1	CAPILLARY MATERIAL	
11.	MOVEMENT MATERIAL	AISI 304 SS	25.2	CAPILLARY LENGTH	
12.	JOINT	ARGON ARC WELDED	25.3	ARMOUR FLEXIBLE	Later
13.	ACCURACY	■ ± 1% OF URV for Pressure Ranges ■ ± 1.6% OF URV (for Draft Range Gauges)	26	MAKE	
14.	ZERO ADJUSTMENT	EXTERNAL / INTERNAL *	27	MODEL	AS INDICATED IN TABLE BELOW
15.	OVERRRANGE PROTECTION	130% OF RANGE (Note-12)	28	QTY	AS INDICATED IN TABLE BELOW
16.	BLOWOUT PROTECTION	REQUIRED	29	ACCESSORIES	REQUIRED AS INDICATED AGAINST EACH TAG NO. IN TABLE BELOW
17.	PROCESS CONN.	AS INDICATED IN TABLE BELOW (Note-10)	A	2 VALVE MANIFOLD	
18.	CONNECTION LOCATION	AS INDICATED IN TABLE BELOW	B	SNUBBER (SS 304)	
19.	CERTIFICATION		C	SYPHON (SS316, RATING (KPa#)	
19.1	WEATHER PROOF (TYPE) CERTIFICATE	CMRI / EQV. REQUIRED	D	GAUGE SAVER (SS316)	
19.2	IBR IN FORM IIIC	REQUIRED FOR SYPHONS	E	LIQUID FILLING DAMPING	
20.	OPERATING AMBIENT	0-50 Degc. Humidity: 100% with Tropical, Dusty, Salty, corrosive and highly polluted Atmospheric Conditions	F	VACUUM PROTECTION	
21.	CASE PAINTING	Sieved Enameled anti corrosive Black painting or Epoxy powder coated (Not Applicable for SS casing).	G	2 WAY GAUGE COCK (SS316) 1/2" NPT(F) x 1/2" NPT(F)	
22.	SPECIAL REQUIREMENTS	■ Internal Micrometer screw for Range Adjustment shall be provided.	H	DEGREASED FOR OXYGEN SERVICE	
			I	SOLID FRONT FACE	
			J	CHEMICAL SEAL	

Notes :

- * Vendor to furnish data
- Dial face shall be marked with pressure element material.
- The design of pressure gauge shall conform to IS 3624 / EN 837-1,2,3 / ANSI B40.1
- The scale marking shall be minimum 270 degrees Linear
- The process fluid temperature at Gauge end will be at Ambient temp.
- Gauges with Range more than 60 Kg/cm²G shall be provided with Solid front face. The shatterproof glass sheet of thickness of minimum 3.0mm. Pointer and glass are partitioned off from the sensor by a solid disc.
- All Pressure Gauges and accessories shall be degreased for oxygen service.
- Copper, Silver, Zinc, mercury and their alloys have to be excluded for components in contact with any process fluid.
- For pressure gauges with draft range, case material shall be Die cast Aluminium or Stainless steel or as per Mfr. Std.
- For pressure gauges with draft range, to make process connection of gauge as indicated, if required suitable adaptor shall be provided.
- The accessories like Syphons, Snubbers, 2 way Gauge cock, shall be provided as per Approved Hook UP Drawings by others. These accessories are not in the scope of Pressure Gauge vendor. However if any accessories are shown in options column in sheet 2 of 2 are in PG Vendors Scope.
- For Draft Range Gauges overrange protection shall be 120% of FSD.
- Bourdon element shall be welded to socket and tip end shall be stress relieved
- The Diaphragm seal installation shall be provided with integral type spacer ring with and shall have Vent/ Drain connection with valves and plugs. Alternatively the spacer ring shall be fabricated out of spool piece with Vent/ Drain valves and plugs. In case purging required in diaphragm seal, diaphragm seal installation shall be provided with type spacer ring using pipe spool piece with connection and isolation valves and plugs. Pipe material shall be as per Piping material specification.

BHEL-HPVP UNIT

Specifications for Pressure Gauges

PLANT AUXILIARY BOILER,
1x800 MW WANAKBORI THERMAL POWER STATION, UNIT-8

DOC No INST-7774-27-S-002

Rev. No. 0

Sheet No 2 of 2

List of Pressure Gauges

Sl. No.	Tag No	Qty	Cal Range	Units	Pr Ope Nor	Pr Des Max	Service	Medium	INST. END CONN.	MOUNTIN G	ENTRY	Model No	Options
1	90QHB10CP501	1	0 - 400	mmwcg	178	237	FURNACE PRESSURE	FLUE GAS	1/2"NPT(F)	DIRECT	BOTTOM	Later	G
2	90QLB10CP501	1	0 - 40	Kg/cm2g	22.4	25	DRUM PRESSURE	WATER/ STEAM	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
3	90QHC10CP501	1	0 - 40	Kg/cm2g	19	25	SB MAIN LINE PRESSURE	STEAM	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
4	90QHH01CP501	1	(-) 1 to 1	Kg/cm2g	0.0	--	PRESSURE AT STRAINER INLET	LDO	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
5	90QHH20CP501	1	0 - 40	Kg/cm2g	17	--	PRESSURE AT LDO PUMP COMMON OUTLET	LDO	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,B,E
6	90QHH40CP501	1	0 - 40	Kg/cm2g	15.9	--	PRESSURE BEFORE LOTV	LDO	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
7	90QHH50CP501	1	0 - 10	Kg/cm2g	6	--	ATOMISING AIR HEADER PRESSURE	AIR	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
8	90QHH40CP502	1	0 - 25	Kg/cm2g	14.9-3.35	--	MAIN GUN PR.	LDO	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
9	90QHH40CP503	1	0 - 25	Kg/cm2g	14.9-3.35	--	AUX. FUN PR.	LDO	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
10	90QHH11CP502	1	0 - 40	Kg/cm2g	17	--	PRESSURE AT LDO PUMP OUTLET	LDO	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,B,E
11	90QHH12CP502	1	0 - 40	Kg/cm2g	17	--	PRESSURE AT LDO PUMP OUTLET	LDO	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,B,E
12	90QHH11CP501	1	(-) 1 to 1	Kg/cm2g	0.0	--	PRESSURE AT LDO PUMP INLET	LDO	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
13	90QHH12CP501	1	(-) 1 to 1	Kg/cm2g	0.0	--	PRESSURE AT LDO PUMP INLET	LDO	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
14	PG_SP_001	1	0 - 40	Kg/cm2g	--	--	Commissioning Spare	--	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,B,E
15	PG_SP_002	1	0 - 400	mmwcg	--	--	Commissioning Spare	--	1/2"NPT(F)	DIRECT	BOTTOM	Later	G
16	PG_SP_003	1	(-) 1 to 1	Kg/cm2g	--	--	Commissioning Spare	--	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
17	QLB30CP502	1	0 - 2.5	Kg/cm2g	--	--	Steam to Deaerator	Steam	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
18	QLA01CP501	1	0 - 2.5	Kg/cm2g	--	--	FW Tank	WATER/ STEAM	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
19	QLA11CP501	1	0 - 2.5	Kg/cm2g	--	--	Boiler Feed water pump-A Suction	WATER	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,D
20	QLA12CP501	1	0 - 2.5	Kg/cm2g	--	--	Boiler Feed water pump-B Suction	WATER	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,D
21	HAN30CP501	1	0 - 2.5	Kg/cm2g	--	--	Blowdown Tank	WATER/ STEAM	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
22	QH10CP501	1	0 - 10	Kg/cm2g	--	--	Cooling Water	WATER	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
23	QFA10CP501	1	0 - 10	Kg/cm2g	--	--	Instrument Air	Air	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
24	QFB10CP501	1	0 - 10	Kg/cm2g	--	--	Service Air	Air	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
25	QLB30CP501	1	0 - 25	Kg/cm2g	--	--	Main Steam	STEAM	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
26	QLA11CP502	1	0 - 60	Kg/cm2g	--	--	BFW Pump-A Discharge	WATER	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,B,E,I
27	QLA12CP502	1	0 - 60	Kg/cm2g	--	--	BFW Pump-B Discharge	WATER	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,B,E,I
28	QLA20CP501	1	0 - 60	Kg/cm2g	--	--	BFW Pumps Common Discharge	WATER	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,B,E,I
29	QLA30CP501	1	0 - 25	Kg/cm2g	--	--	DM water	--	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,J
30	PG_SP_004	1	0 - 2.5	Kg/cm2g	--	--	Commissioning Spare	--	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,D
31	PG_SP_005	1	0 - 10	Kg/cm2g	--	--	Commissioning Spare	--	1/2"NPT(M)	DIRECT	BOTTOM	Later	G
32	PG_SP_006	1	0 - 25	Kg/cm2g	--	--	Commissioning Spare	--	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,J
33	PG_SP_007	1	0 - 60	Kg/cm2g	--	--	Commissioning Spare	--	1/2"NPT(M)	DIRECT	BOTTOM	Later	G,B,E,I
34	PG_SP_008	1	0 - 25	Kg/cm2g	--	--	Commissioning Spare	--	1/2"NPT(M)	DIRECT	BOTTOM	Later	G

Handwritten signature and date: 08.09.15

Handwritten signature and date: 08.09.15

Salient Points for Pressure Gauges

Sl.. NO.	DESCRIPTION														
1	Selection of proper model in conformity with specifications ,standard /requirements is the responsibility of vendor .Mentioning the model number in the P.O. does not absolve the responsibility of vendor .														
2	DOCUMENTATION Vendor shall furnish following documents along with invoicing &supply of materials. <table> <tr> <td>invoice</td><td>Supply</td></tr> <tr> <td>a) Guarantee certificate:</td><td>3 Copies nil</td></tr> <tr> <td>b) Inspection clearance certificates:</td><td>3 copies Nil</td></tr> <tr> <td>c) Operation and maintenance manual:</td><td>2 Sets 10 Sets</td></tr> <tr> <td>d) Manufacturer's test certificate and other test certificates (As indicated under QAP):</td><td>2Sets 10Sets</td></tr> <tr> <td>e) Material test certificate</td><td>2Sets 10Sets</td></tr> <tr> <td>f) complete packing list</td><td>3 copies 1copy</td></tr> </table>	invoice	Supply	a) Guarantee certificate:	3 Copies nil	b) Inspection clearance certificates:	3 copies Nil	c) Operation and maintenance manual:	2 Sets 10 Sets	d) Manufacturer's test certificate and other test certificates (As indicated under QAP):	2Sets 10Sets	e) Material test certificate	2Sets 10Sets	f) complete packing list	3 copies 1copy
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d) Manufacturer's test certificate and other test certificates (As indicated under QAP):	2Sets 10Sets														
e) Material test certificate	2Sets 10Sets														
f) complete packing list	3 copies 1copy														
3	Vendor shall submit following documents to BHEL for approval /Information within two weeks after placement of P.O. along with required inputs from BHEL .Vendor shall commence the manufacturing /Testing of items only after the specific approval of relevant documents by BHEL. Delay in submitting documents shall be to Vendor's account. a) GA Drawing & Datasheet(I) A: Approval I: Information														
4	INSPECTION: a) Inspection shall be carried out at vendor's works by BHEL or BHEL's Third Party Inspection Agency(Lloyds / Bureauveritas / TUV).Vendor shall furnish 2 weeks of advance intimation for inspection along with 1 copy of relevant test certificates for the requirement indicated in point 'b' given below b) the following are the minimum inspection requirements. As per BHEL Standard QAP : QA:CI:STD:QP:01 (As attached)														
5	Inspection and testing shall not relieve the supplier /manufacturer from his responsibility for materials and performance of the instrument supplied.														
6	All equipments supplied shall be field proven quality both with respect to design and materials . Proto type instruments or instruments of an experimental nature shall not be offered or supplied . The instruments as being offered / supplied should have been operating satisfactorily in a captive power plant application of a hydrocarbon industry like Refinery, Petrochemical and Gas Processing Plant under similar process conditions for at least 4000 hrs. No instrument requiring special maintenance or operating facility shall be offered or supplied as far as possible.														
7	PACKING: Shall be done as per QA:CI:STD:PR:04, Rev.02 (4 Sheets) The Vendor shall obtain DU Nos. from BHEL before packing . Same shall be marked on the Boxes.														
8	SS Tag Plates shall be provided for each Gauge with Scribe Legend and Tag No..														

Hand
08/09/15

U. K. Kulkarni
08.09.15

Ant
08/09/15

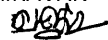
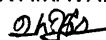
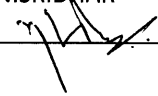


CONTROLS AND INSTRUMENTATION/QA/FB

STANDARD QUALITY PLAN FOR

PRESSURE GAUGE

(BOURDON, DIAPHRAM AND DRAFT)

REV	DATE	PREPARED	REVIEWED	APPROVED	REVISION HISTORY
00	--	Sd/-	Sd/-	Sd/-	Initial release.
01	--	Sd/-	Sd/-	Sd/-	General Revision
02	03/06/1993	Sd/-	Sd/-	Sd/-	Format revised to 9 column QP
03	16/06/1997	Sd/-	Sd/-	Sd/-	General revisions. Format changed.
04	21/03/2002	Sd/-	Sd/-	Sd/-	Dept. name changed CTQ requirements added & General revision.
05	08/01/2004	Sd/-	Sd/-	Sd/-	Revised to include the comments / Feedback of internal discussion / Vendors meet.
06	20/01/2009	RM.VAIRAVAN	N.SRIDHAR	S.SOMASUNDARAM	Quantum of check included. Format changed
07	01/10/2009	RM.VAIRAVAN 	RM.VAIRAVAN 	N.SRIDHAR 	Based on Inspection feedback, Quantum of check by BHEL is revised.

	BHARAT HEAVY ELECTRICALS LIMITED TIRUCHIRAPPALLI - 620014	QUALITY PLAN FOR PRESSURE GAUGE	QA:CI:STD:QP:01 Rev: 07 Page: 2 of 3
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Sl. No	Component & Operation	Characteristics	Class	Type of Check	Quantum of check		Ref Doc. & Acceptance STD	Format of record	AGENCY			REMARKS
					M	B/C			M	B	C	
A	FINISHED PRODUCT INSPECTION											
01	Routine test	a. Physical verification of type, scale marking, range, tag number	Major	VISU	100%	20%	Purchase spec.	TR	P	W	-	
		b. Dimensional check up	Major	MEAS	100%	20%	-Do-	TR	P	W	-	
		c. Body material, Sensing element	Major	CHEM	Sample	Sample	Purchase spec. .	TC	P	V	-	
		d. Calibration test (Accuracy) at 5 points before and after pressure test.	Critical	MEAS	100%	30%	Purchase Spec. IS 3624 / EN837, Data sheet	TR	P	W	-	
		e. Over range protection test	Major	PHYS MECH	100%	20%	-Do-	TR	P	W	-	
		f. Zero adjustment	Major	MECH	100%	20%	-Do-	TR	P	W	-	
		g. Mounting, entry and process connection	Major	PHYS MECH	100%	20%	-Do-	TR	P	W	-	
		h. Provision of Blow out disc	Major	MECH	Sample	Sample	Purchase spec. Mfr Std.	TR	P	W	-	
		i. Over pressure test	Major	MECH	Sample	Sample	Purchase spec. Mfr Std.	TR	P	W	-	
		j. Hysteresis, Repeatability	Major	MECH	Sample	Sample	Purchase Spec. IS 3624 / EN837, Data sheet	TR	P	W	-	
		k. Bourdon arc dia	Major	MEAS	Sample	Sample	-Do-	TR	P	W	-	
02	Type Test	a. Degree of enclosure protection for housing.	Critical	ENVI	One of Design	One of Design	IS 12063, IS 13947, IEC 60529	TC	V	V	-	
		b. Endurance test	Critical	MECH	-Do-	-Do-	IS 3624, EN 837	TC	V	V	-	
		c. Thermal stability test	Critical	MECH	-Do-	-Do-	Note D	TC	V	V	-	
		d. Vibration test	Critical	MECH	-Do-	-Do-	EN 837	TC	V	V	-	

M- MANUFACTURER/ SUB-VENDOR; **B** - BHEL / TPI ; **C** - CUSTOMER / TPI
P - PERFORM ; **W** - WITNESS **V** - VERIFICATION ;



B.NOTES:

1.LEGENDS:

ENVI	:	Environmental;	MEAS	:	Measurement
ELEC	:	Electrical	LGB	:	Log Book
CHEM	:	Chemical	TC	:	Test certificate
VISU	:	Visual	TR	:	Test Report

- The vendor at their works shall arrange all testing facilities. Tests for which facilities are not available are to be carried out at recognized National Test Houses like ETDC/CIL/NPL/ERTL etc., at vendor cost.
- Through Log Book / any other documents available at the vendor's works, it shall be possible to correlate the finished product with inspection carried out.
- All Measuring and Testing Instruments shall be periodically calibrated from recognized test houses & certificates made available during inspection for verification.
- Test certificates for routine type tests are to be furnished by the vendor.
- Type test certificate shall not be earlier than 5 years from the date of Purchase enquiry.
- Vendor to give tentative inspection program in advance and confirm exact date two weeks in advance for arranging BHEL's inspection.
- Packing shall be as per "PACKING PROCEDURE" indicated in the specification.

C. REFERENCE STANDARDS: (For Indicated Standards Refer the Latest Version)

IEC 60529	:	Specification for Degree of protection provided by enclosure
BS 1780	:	Specification for Bourdon tube pressure and vacuum gauge
IS 3624	:	Specification for pressure and vacuum gauges
IS 12063	:	Classification of Degrees of protection provided by enclosure for electrical equipment
IS 60947-1	:	Specification for general rules for low voltage switch gear.

D. THERMAL STABILITY TEST:

A cyclic temperature test shall be performed in a suitable test chamber by elevating the temperature to the maximum rated temperature within two hours. The instrument case shall be held at the maximum temperature for 10 hours. The case temperature shall then be lowered to the specified minimum temperature over a 2 hours period. The minimum temperature shall also be held for 10 hours.

2 cycles at third party lab (Govt. approved / NABL accredited) or 5 cycles at Manufacturer work is acceptable. Maximum and minimum temperatures are as per manufacturer's catalog. At the end of this period, there shall be no visible deterioration of the gaskets, seals, protective coating or any significant distortion of the case.

SQP01R7.doc

**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI**

**CONTROLS AND INSTRUMENTATION / FB
QUALITY ASSURANCE**

**STANDARD PACKING PROCEDURE
FOR
ALL INSTRUMENTS AND MISCELLENEOUS ITEMS
(ELECTRICAL, ELECTRONIC AND PNEUMATIC)**

Rev	Date	Prepared	Checked	Approved	Revision History
00	01.01.96	Sd/-	Sd/-	Sd/-	Initial History
01	28.03.02	A.J.OMPRAKASH Sd/-	R.VARADARAJAN Sd/-	G.MATHIYALAGAN Sd/-	Department name changed
02	26.02.07	RM.VAIRAVAN <i>RM.VAIRAVAN</i>	N.SRIDHAR <i>N.SRIDHAR</i>	G.SOMASUNDARAM <i>G.SOMASUNDARAM</i>	Revised after discussion with Shipping Dept.

1.0 SCOPE

- 1.1 This procedure gives minimum guidelines to be complied with for packing of Electrical, Electronics and Instrumentation panels. This packing shall be suitable for different handling operations and for the adverse conditions during transportation and during indoor / outdoor storage for periods more than one year.

2.0 WOOD SPECIFICATION FOR PACKING

- 2.1 Rubber wood as per manufacturer standard.
2.2 Silver Oak as per procedure PR:CHEM:017 or as per relevant International Standards.

3.0 PACKING

- 3.1 For Inland packing, rubber wood and export packing Silver Oak wood shall be used. The wood used shall be seasoned and treated. It shall be free from knots, etc. and any kind of decay caused by insects and fungus.
- 3.2 The required wood case for the equipment to be packed shall be made out of individual planks of single length and no joint is permissible. Using such planks, the required wood case for the panel shall be made,
- 3.3 Sufficient number horizontal, vertical and diagonal planks (dimension depending upon case size) shall be used for binding and strengthening. Runners have to be provided with metallic sling plates for handling.
- 3.4 The instrument or the items has to be individually packed with a polythene cover and shall be kept inside a moulded thermo coal or carton box. The box shall be filled with suitable material like jute, coir, thermo coal, etc.
- 3.5 The original packing material shall be used for the following items, wherever required.
Personal computer (PC), Monitor, Keyboard, Transmitter, Switches, Gauges, Analyzers, CCTV system, Electronic items.
- 3.6 On all sides of the inner case, black polythene sheet shall be nailed.
- 3.7 The gap between job and the box shall be filled with suitable material like jute, coir, thermo coal, etc.
- 3.8 The packing of the cable by vendors shall be relevant Indian Standards.
- 3.9 Each case must have sufficient quantity of silica gel, packed in cotton cloth bags, shall be kept at different places as required.
The bags used shall have the following information marked on it.
Silica Gel activator type:
Blue: Active
Rose: Reduced active
White: No activity. To be replaced with fresh Silica gel.

4.0 **MARKING**

- 4.1 After completing the packing, Stencil marking, as per dispatch instructions and symbol marking as per Annexure – I shall be made. Please ensure the box is stenciled with “FRAGILE ITEM”, “HANDLE WITH CARE”

5.0 **PACKING SLIP**

- 5.1 A copy of the packing slip, kept in a polythene cover shall be kept inside the box. Another copy of the packing slip, kept in a polythene cover shall be kept out side the box and covered with a metallic plate to the case.

6.0 **CAUTION**

Do not pack any other Mechanical items with this case.

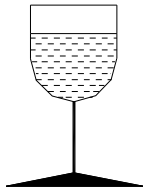
7.0 **GENERAL**

- 7.1 These packing procedures are the minimum requirements in addition to the standard instructions mentioned in the Purchase Order and Specification.
- 7.2 Deviation to meet the packing procedure requirements / non-clarity in packing approach in any quotation will be liable for rejection of offer.

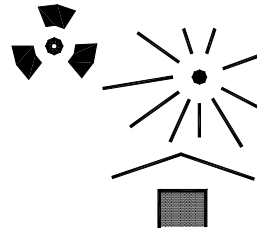
ANNEXURE – 1

TO

PROCEDURE NO:CI:QAC:PR:02/00 ; PR:03/00 ; PR:04/00



FRAGILE, HANDLE WITH CARE



PROTECT FROM HEAT AND RADIOACTIVE SOURCES



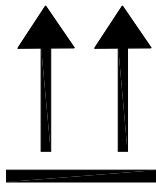
USE NO HOOKS

NOTE: The design of heavy goods packages cannot always resist top lifting by grabhooks.



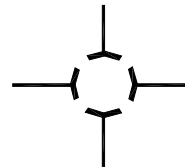
KEEP DRY

NOTE: Not all cases have waterproof internal liners: plywood used in the construction may not have a waterproof glue-line.



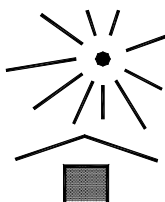
THIS WAY UP

NOTE: Certain designs of small cases make it difficult to distinguish top from bottom.

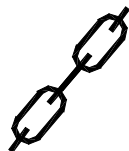


CENTRE OF GRAVITY

NOTE: This should be stencilled as a minimum on the two longest case sides (this information will normally be supplied by the manufacturer of the item(s) packed).

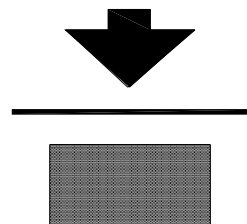


KEEP AWAY FROM HEAT



INTERNATIONAL "SLING HERE" SYMBOL

... kg max



STACKING LIMITATION

NOTE: The maximum load in kilograms should be marked above the arrow.

PRICE SCHEDULE (Part-II) - To be enclosed in Price bid

Enquiry No : H151700030

Date: 08.09.2017

Item SI No	Material Code	Description	Unit	Quantity (a)	Unit Rate in Rs. (b)	Total Price in Rs. (a x b)
1	L777419728401001	Tag No : 90QHB10CP501	NO	1		
2	L777419728401002	Tag No : 90QLB10CP501	NO	1		
3	L777419728401003	Tag No : 90QHC10CP501	NO	1		
4	L777419728401004	Tag No : 90QHH01CP501	NO	1		
5	L777419728401005	Tag No : 90QHH20CP501	NO	1		
6	L777419728401006	Tag No : 90QHH40CP501	NO	1		
7	L777419728401007	Tag No : 90QHH50CP501	NO	1		
8	L777419728401008	Tag No : 90QHH40CP502	NO	1		
9	L777419728401009	Tag No : 90QHH40CP503	NO	1		

Enquiry No : H151700030**Date: 08.09.2017**

Item SI No	Material Code	Description	Unit	Quantity (a)	Unit Rate in Rs. (b)	Total Price in Rs. (a x b)
10	L777419728401010	Tag No : 90QHH11CP502	NO	1		
11	L777419728401011	Tag No : 90QHH12CP502	NO	1		
12	L777419728401012	Tag No : 90QHH11CP501	NO	1		
13	L777419728401013	Tag No : 90QHH12CP501	NO	1		
14	L777419728401014	Tag No : PG_SP_001	NO	1		
15	L777419728401015	Tag No : PG_SP_002	NO	1		
16	L777419728401016	Tag No : PG_SP_003	NO	1		
17	L777419728401017	Tag No : QLB30CP502	NO	1		
18	L777419728401018	Tag No : QLA01CP501	NO	1		

Enquiry No : H151700030**Date: 08.09.2017**

Item SI No	Material Code	Description	Unit	Quantity (a)	Unit Rate in Rs. (b)	Total Price in Rs. (a x b)
19	L777419728401019	Tag No : QLA11CP501	NO	1		
20	L777419728401020	Tag No : QLA12CP501	NO	1		
21	L777419728401021	Tag No : HAN30CP501	NO	1		
22	L777419728401022	Tag No : QHX10CP501	NO	1		
23	L777419728401023	Tag No : QFA10CP501	NO	1		
24	L777419728401024	Tag No : QFB10CP501	NO	1		
25	L777419728401025	Tag No : QLB30CP501	NO	1		
26	L777419728401026	Tag No : QLA11CP502	NO	1		
27	L777419728401027	Tag No : QLA12CP502	NO	1		

Enquiry No : H151700030

Date: 08.09.2017

Item SI No	Material Code	Description	Unit	Quantity (a)	Unit Rate in Rs. (b)	Total Price in Rs. (a x b)
28	L777419728401028	Tag No : QLA20CP501	NO	1		
29	L777419728401029	Tag No : QLA30CP501	NO	1		
30	L777419728401030	Tag No : PG_SP_004	NO	1		
31	L777419728401031	Tag No : PG_SP_005	NO	1		
32	L777419728401032	Tag No : PG_SP_006	NO	1		
33	L777419728401033	Tag No : PG_SP_007	NO	1		
34	L777419728401034	Tag No : PG_SP_008	NO	1		
TOTAL AMOUNT IN Rupees						

Annexure- D**Enquiry No : H151700030****Dt: 08.09.2017**

Item SI No	Material Code	Description	% of GST	HSN CODE
1	L777419728401001	Tag No : 90QHB10CP501		
2	L777419728401002	Tag No : 90QLB10CP501		
3	L777419728401003	Tag No : 90QHC10CP501		
4	L777419728401004	Tag No : 90QHH01CP501		
5	L777419728401005	Tag No : 90QHH20CP501		
6	L777419728401006	Tag No : 90QHH40CP501		
7	L777419728401007	Tag No : 90QHH50CP501		
8	L777419728401008	Tag No : 90QHH40CP502		
9	L777419728401009	Tag No : 90QHH40CP503		
10	L777419728401010	Tag No : 90QHH11CP502		
11	L777419728401011	Tag No : 90QHH12CP502		
12	L777419728401012	Tag No : 90QHH11CP501		
13	L777419728401013	Tag No : 90QHH12CP501		
14	L777419728401014	Tag No : PG_SP_001		
15	L777419728401015	Tag No : PG_SP_002		
16	L777419728401016	Tag No : PG_SP_003		
17	L777419728401017	Tag No : QLB30CP502		
18	L777419728401018	Tag No : QLA01CP501		

Enquiry No : H151700030**Dt: 08.09.2017**

Item SI No	Material Code	Description	% of GST	HSN CODE
19	L777419728401019	Tag No : QLA11CP501		
20	L777419728401020	Tag No : QLA12CP501		
21	L777419728401021	Tag No : HAN30CP501		
22	L777419728401022	Tag No : QHX10CP501		
23	L777419728401023	Tag No : QFA10CP501		
24	L777419728401024	Tag No : QFB10CP501		
25	L777419728401025	Tag No : QLB30CP501		
26	L777419728401026	Tag No : QLA11CP502		
27	L777419728401027	Tag No : QLA12CP502		
28	L777419728401028	Tag No : QLA20CP501		
29	L777419728401029	Tag No : QLA30CP501		
30	L777419728401030	Tag No : PG_SP_004		
31	L777419728401031	Tag No : PG_SP_005		
32	L777419728401032	Tag No : PG_SP_006		
33	L777419728401033	Tag No : PG_SP_007		
34	L777419728401034	Tag No : PG_SP_008		

Certificate by Chartered Accountant on letter head

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

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial yearas per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e.. original cost excluding land and building and the items specified by the Ministry of Small Scale industries vide its notification No.S.O.1722(E) dated October 5, 2006 :

Rs..... Lacs.

2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:

Rs..... Lacs.

(Strike off whichever is not applicable)

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

Or

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

Date:

(Signature)

Name:

Membership number:

Seal of Chartered Accountant