



Bharat Heavy Electricals Limited
(A Govt. Of India Undertaking)
PROJECT ENGINEERING MANAGEMENT

Enq No.: PE/PG/RTC/E-5551/2017

Date: 04.04.2017

TENDER ENQUIRY THROUGH E-PROCUREMENT

DUE DATE
April, 17, 2017
02:00 P.M.

Subject: Tender Enquiry for Rate Contract of Air Traps for two years

Dear Sir,

We are pleased to invite your tender offers for subject package. Please upload your best quotation/ offer in two (2) parts on <https://bheleps.buyjunction.in> for the requirement strictly as per schedule of price format before above mentioned due date & time. The details of the tender enquiry is as mentioned below:

Sl. No	Description for which Rate Contract is desired	Tentative Quantity	Delivery required
1	Air Traps - Refer Technical specification no PE-TS-020-555-M011 for detailed description.	As per BOQ cum price schedule in Annexure-I) cumulative for the Prospective Projects as per Annexure-III.	The delivery period shall be four (04) months from drawing/doc approval for respective project/requirement under the RC. Other schedules like submission of drawings, approval of drawings, inspection etc. shall be as per the Technical Specification no. PE-TS-020-555-M011. Any deficiency in documents submitted w.r.t. agreed specification/ comments from BHEL shall be treated as non-submission and no. of days delay in submission of complete documents during approval process, on account of this, would be reduced from the delivery. The vendor shall be responsible for getting approval from BHEL as early as possible and BHEL will support the process, in full, within above time frame and terms & conditions." Delays due to non-fulfilment of the requirements as specified in the specification shall be to the vendor's account. Vendors shall be informed that delivery period mentioned above is for contractual LD calculation purpose, however in case of exigencies BHEL may ask for early delivery.

(i) Rate contract on firm price basis is proposed for two year from placement of Rate Contract PO.

Please reply to:
PEM -Power Sector
PPEI Building,
BHEL House
HRD & ESI Complex,
Plot-25, Sector-16-A NOIDA – 201301

Phone: 0120-4213591
Fax : 0120-4329026
e-mail: ncsharma@bhelpem.co.in

Regd. Office:

Siri Fort
New Delhi - 110049



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(ii) Rate Contract will be finalized on total lump sum basis instead of item wise evaluation. There is % allocation weightage against BOQ quantity of each item which shall be used for arriving at price break up. Vendors to note that evaluation shall be done on CST basis, however in case, the entire business volume goes to one vendor (or volume of business shared between the vendors in line with enquiry) having manufacturing facility in the same state, then BHEL may do suitable amendment in PO on case to case basis for taking care the provision of VAT in case of project falling in the same State where manufacturing factory of the vendor is also located.

(iii) Bidders to note the following:-

- a) Rate contract shall be decided on the basis of grand Total FOR site price of Total BOQ as listed in price format (Annexure-I).
- b) Though evaluation is proposed on Grand Total FOR site, but there is % allocation weightage against BOQ quantity of each item which shall be used for arriving at price break up. Bidders need to give only their Ex Works price.
- c) Bidders also requires to mention % of taxes/ duties (against respective column for ED, CST & Service Tax etc.) applicable for each item of the BOQ.
- d) Bidder to give % of freight charges considering anywhere in India in the freight column.
- e) Rest of the prices shall be derived by BHEL in line with % allocation fixed for each item.
- f) For better clarity to the bidders where value is to be filled is noted as "to be quoted" and for other columns it will be noted as "derived" which denotes shall be derived by BHEL as per % allocation fixed against each item.

(iv) Refer Annex-I for tentative Qty of Air Traps required for prospective projects (refer Annex-III), however bidders will be asked to consider delivery anywhere in India. Quantity variation shall be applicable in line with cl. no. 6 of GCC rev-06. Project list is indicative only, BHEL may ask for delivery anywhere in India for any of the project added in the prospective project list for existing projects during RC period.

(v) Mandatory Spares (Annex-I) are proposed to be considered for evaluation, however, bidders to note that ordering of the same is subject to received order of end customer i.e. in case end customer asked for Mandatory Spares along with main supply item then only order for Mandatory Spares shall be placed otherwise only main supply shall be taken.

(vi) Rate Contract is proposed to be done with 2 vendors in ratio of 60:40 value wise at L1 FOR site price for Air Traps (% of splitting of RC between 2 vendors may be changed during ordering process if L1 bidder is not customer approved); however order for a project shall not be split the same shall be informed to bidders through NIT.

(vii) L1 rates shall be counter offered to vendors (L2, L3 & so on) in succession. If none accepts L1 rates, RC shall be done with L1 vendor for 100 % value. Since the rate contract is being proposed on two vendors, vendors shall be asked to quote prices with CST against form C and same state ordering shall not be done to save VAT.

(viii) Drawings/ documents, equipment manufacture inspection & dispatch requirement will be as per Technical Specification no. PE-TS-020-555-M011.

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(ix) **Pre-Qualifying Requirements (PQR):** All the bidders (registered/ non-registered) will be asked to submit documents fulfilling PQR requirements (as per enclosed annex-IV) with the bid & their further evaluation shall be done based on qualification in PQR.

(x) Bidders to note that their bid shall be conditional subject to qualify PQR by registered vendors & non-registered vendors have to qualify PQR & get registered with PEM for the package.

For registration in PEM "Bidders needs to apply & get registered for subject package with PEM before P-2 (price bid opening) & hence you need to apply online for registration on PEM web portal & have to enclose acknowledgement with this effect with the bid documents else your bid will not be considered for evaluation"

Online Registration Portal is operational in BHEL. Non-registered Vendors, who wish to apply for registration with BHEL-PEM, have to apply through Online Registration Portal available at www.bhelpem.com → vendor section → Online Supplier Registration. All credentials and/or documents duly signed and stamped related to registration has to be uploaded on the website and submit the application for registration. One set of hard copy of the filled-up SRF downloaded from Online Registration Portal duly signed and stamped has to be submitted.

(xi) Bidder are required to submit offer strictly in accordance with the requirements of the above tender documents. Deviations (Technical as well as Commercial) from NIT are generally not acceptable, if any, Technical deviations and Commercial deviations shall be furnished in "Cost of Withdrawal sheet" (as per Annexure-II of GCC Rev. 06, copy enclosed) **only under the headings "TECHNICAL DEVIATIONS" and "COMMERCIAL DEVIATIONS"** respectively, along with reasons for taking such deviations. Deviations (Technical & Commercial) taken other than as mentioned on cost of withdrawal sheet shall not be considered.

(GCC Rev. 06 is available on <http://www.bhelpem.com/Documents/GCC/GCC-Rev-06.pdf> , you are requested to kindly download the same).

Tender Enquiry Terms and Conditions: -

1. Offers should be submitted in two parts online at <https://bheleps.buyjunction.in> as follows:
Part-I: TECHNO-COMMERCIAL BID (along with un-priced copy of Annexure-I)
Part-II: PRICE BID (along with priced copy of Annexure-I)
2. For detailed instructions, please see clause no. 2 of "Instructions to Bidders" of GCC, Rev. 06.
3. No Technical & Commercial deviations are acceptable.
4. Standard pre-printed terms & conditions of the tenderers shall not be considered valid.
5. Bidder to submit complete tender in all respects duly signed & stamped on each and every page by the authorized signatory of the bidder as a token of acceptance of all the terms and conditions of tender.
6. Unsolicited fresh/ revised price bids shall not be entertained.
7. Tender will be opened at **03.00 PM on 17/04/2017**.

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8. Purchaser shall be under no obligation to accept the lowest or any other tender and shall be entitled to accept or reject any/ all tender(s) in part or full without assigning any reason whatsoever.
9. Purchaser reserves the right to split up the scope of the tender enquiry and place the orders for different scope/ items with different bidders and also increase or decrease the quantity.
10. **BHEL reserves the right to go for Reverse Auction (RA)** (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.
Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. **The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.**

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

As a reminder to the bidders, system will flash following message (in RED Color) during the course of 'online sealed bid':

"Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL"

Detailed guidelines of **reverse auction 2016** are available in "information section" of www.bhelpem.com, same are applicable for subject tender.

The Bidders has to quote the Single Price (i.e. Total Cost to BHEL) in Reverse Auction i.e. Price mentioned in Sl. no-A.4, column -9 for indigenous bidders with loading/de loading (if any). Price are to be inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, ED + cess, CST against C-form/VAT, Freight as applicable, including loading (if any). De-loading (if any) shall be done in line with NIT terms.

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Various Conditions, arrived after Reverse Auction, shall be treated as follows:

Case-I (Taxes & duties and freight are identical in Reverse Auction & Conventional Price Bid)

Resolution: - Ordering shall be done on lower of the two bids (RA closing price & Conventional Price Bid). After successful completion of reverse auction L1 bidder shall be asked to submit break up in line with taxes & duties, freight quoted in their Conventional Price Bid.

Case-II (In case Bidder has quoted 'CST' in Conventional Price Bid and applicable Tax is 'VAT')

Resolution: - "Total Cost to BHEL shall be maintained by reducing proportion amount in Ex-works quoted by Bidder".

Case-III (In case Bidder has quoted 'VAT' in Conventional Price Bid and applicable Tax is 'CST')

Resolution: - Conventional Bid/RA quoted Prices shall be reduced and CST will be allowed.

Statutory variation shall be applicable. Any new tax structure (like Goods & Services Tax) as and when implemented by the Government shall become applicable in addition to or in lieu of existing tax structure.

Note: - Applicable taxes & duties shall be determined as per location of works of bidder.

11. **Tenders should be submitted ONLINE via e-Procurement System only**, however, all correspondence thereof, shall be addressed to the undersigned by name & designation and sent at the following address :

Mr. N.C Sharma, Sr.ENGR/MM
e-mail : ncsharma@bhelpem.co.in
Ph. No. 0120- 4213591

Mr. I P Singh, Sr. Mgr./ CMM
e-mail: INDRA@bhelpem.co.in
Ph. No. 0120-4368749

However, for **Technical clarifications**, following persons may be contacted:

Mr. GAURAV DIXIT, Sr. ENGR./MPL
e-mail: gauravdixit@bhelpem.co.in
Ph. No.0120-4283503

Ms RASHMI PRASAD, MGR/MPL
e-mail : rashmiprasad@bhelpem.co.in
Ph. No.0120- 4368943

12. If any bidder uploads price bid in the unpriced section (techno-commercial attachment page) of the tender in e-procurement, in that case bidder(s) shall only be responsible for such mistake and any consequences thereof. Hence all bidders are requested to be more careful at the time of uploading the Unpriced and Price Bid for Part-I and Part-II respectively to avoid mismatch.
13. Any taxes and duties applicable on the date of bid but not quoted by the bidders shall be to the bidder account.
14. Delivery terms for dispatches shall be FOR Dispatch Station.
15. CIF is not available for this package.
16. Bidders to submit their offers strictly in line with the enclosed Price Format (Annexure-I).
17. This enquiry is subject to Conditions/ limits if any imposed in PMD / Vendor registration.
18. Procurement of the subject package shall be done through e-procurement.
19. All corrigenda, addenda, amendments, time extensions, clarifications etc. to the tender will be hosted on EPS website (<https://bheleps.buyjunction.in>), BHEL website (www.bhel.com), BHEL-

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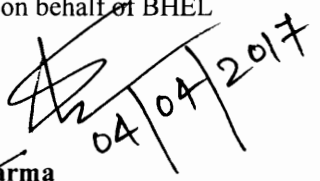
Date: 04.04.2017

PEM website (www.bhelpem.com) & CPP Portal. Bidders should regularly visit websites to keep themselves updated.

20. Foreign and indigenous bidders participating through open tender will necessarily have to buy class III DSCs issued by the certifying authorities in India for future tenders. Basic procedure /checklist has been uploaded on www.bhel.com for participating in tender enquires through e-procurement.
21. Bidder to note that all other terms and condition shall be strictly as per NIT, GCC Rev. 06 & SCC. In the event of any contradiction in the terms and conditions mentioned, the order of preference shall be NIT (this letter) / SCC / GCC Rev. 06.

NOTE: In case you are not making an offer against this enquiry, you are requested to send a regret letter so as to reach us on or before the due date.

Thanking you,
Yours faithfully,
For and on behalf of BHEL


N.C Sharma
Sr.ENGR/ MM

Enclosures:

- a) NIT (this letter itself)
- b) Technical Specification No. PE-TS-020-555-M011
- c) Annexure-I: Price Format
- d) Annexure-II: Special Conditions of Rate Contract (SCC).
- e) Annexure-III: List of prospective projects
- f) Annexure-IV: PQR (Pre-qualifying Requirement)
- g) Cost of Withdrawal sheet (Annexure-II of GCC Rev. 06) & PBG Format

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Regd. Office:

Siri Fort
New Delhi - 110049

PRICE SCHEDULE FORMAT- RATE CONTRACT FOR AIR TRAPS

S.No	Description of equipment / item	Body Material & Size (NB)	Quantity (nos.)	UNIT EX- WORKS PRICE (DULY PACKED)	TOTAL PRICE EX-WORKS (DULY PACKED) (Rs)	ED @ % (Including cess) (Rs.)	CST @ % (Rs) against from C and form E	FREIGHT CHARGES @ % of Ex- work (including Service Tax) (Rs.)	TOTAL F.O.R. SITE PRICE (Rs.)	% weightage of ex-works value for each item for total BOQ at col. 3
	1	2	3	4=5/3	5	6	7	8	9	10
A.1	BALL FLOAT AIR TRAP (WITHOUT STRAINER) COMPLETE ASSLY.	25, CCS	547	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED		Derived	77.35
A.2	EXTERNAL 'Y' TYPE STRAINER COMPLETE ASSLY	25, CCS	547	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED	% TO BE QUOTED	Derived	22.25
A.3	Mandatory Spares (VALVE SEAT) for item at sl. no. 1		4	Derived	Derived	% TO BE QUOTED	% TO BE QUOTED		Derived	0.40
A.4	Grand Total:				To be quoted	Derived	Derived	Derived	Derived	

Note

1 For detailed design parameters & material of construction refer pages 1,2 of Datasheet-A of Technical specification

2 Bidder to quote individually against all the items mentioned in the un priced schedule, incomplete price schedule are liable to get rejected

3 Bidders are also required to inform full CST & VAT value in case of BHEL is not able to provide forms to avail concessional taxes (it is for future reference only)

4 Bidder to note that total price indicated above at A.4 shall be considered for evaluation and hence should be complete in all respect for the full scope defined and considering all terms and conditions agreed.

5 Value is to be filled only where "to be quoted" is mentioned and for other columns where "derived" is mentioned same shall be derived by BHEL as per % allocation fixed against each item

(Bidder's Seal & Sign)

Annexure-II- Special Condition of Rate Contract for Air Traps

1. BHEL/PEM intends to enter into Rate Contract for the tendered qty. of Air Traps for a period of two year. The Rate Contract shall come into force from the date of issue of Purchase order for Rate Contract. Validity for ordering shall be two year from the purchase order for Rate Contract.
2. The items will be required against respective projects. Exact quantities and Project name shall be intimated while placing order for a specific project based on the Rate Contract.
3. The units rate for each item should be quoted inclusive of ex-works including packing & forwarding (excepted sea worthy packing) for tendered specifications/sizes as per price schedule format. Other elements of prices such as Excise Duty, Sales Tax, and freight charges (Including service tax) % of Ex-works are also to be indicated. Destination may be anywhere in India as per project requirement.
4. The freight charges shall be paid on percentage on ex-works prices or actual freight charges paid to transporter whichever is lower against production of documentary evidence. Vendor to quote freight charges as percentage (%) of ex-works price for destination anywhere in India.
5. Vendor to note that Excise Duty is payable on self manufacturing item only as per clause no 4.1.2 of GCC Rev 06 & hence for their BOI may quote Excise Duty is inclusive or Nil.
6. The prices shall remain firm during the period of two year.
7. Inspection of materials shall be carried out by BHEL / CQA and or by Customer or by an authorized agency at manufacture's works before dispatch, if required. Dispatch of material to be done, only after receipt of BHEL/Customer MDCC. It is responsibility of vendor to for obtain Material Dispatch Clearance Certificate (MDCC) from BHEL or CUSTOMER as required before dispatch of material.
8. Items have to be manufactured as per specification and supplied strictly in accordance with the approved BHEL / Customer's Drawings & Quality Plan. The items/ test certificate of items, which for any reason are not acceptable to BHEL / Customer, shall be required to be retested. No extra charge shall be payable on those account by BHEL.
9. Mode dispatch shall be by road through Schedule Bank/BHEL (PEM) approved transporters.
10. Other terms and conditions shall be as per Standard Technical specification no. PE-TS-020-555-M011 & GCC Rev 06, Enquiry letter.
11. Order shall be placed with CST for respective projects keeping FOR site price same, vendors to quote accordingly.
12. This enquiry is subject to Conditions/ limits if any imposed in PMD/ Vendor registration.
13. Tentative quantity is given in enquiry.
14. Bidders to submit offer for RC of said items ONLINE via e-Procurement System only. Complete tender in all respects duly signed & stamped on each and every page by the authorized signatory of the bidder as a token of acceptance of all the terms and conditions of tender.
15. The Bidder along with its associate/ collaborators/ sub-contractors/ sub-vendor/ consultants/ service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL web site <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud as soon as it comes to their notice.



Annex-III

List of prospective projects:

1. 1X800 MW VIJAYWADA APGENCO
2. 1X800 MW KRISHNAPATNAM APPDCL
3. 4x270 MW MANUGURU TPP
4. 1X250 MW ROURKELA THERMAL POWER STATION
5. 1X525 MW TUTICORIN TPS
6. 2X800MW UPPUR STPP
7. 1X800MW TANGEDCO NORTH CHENNAI TPP
8. 1X370MW YELAHANKA CCPP
9. 5x800 MW Yadadri TPP
10. 2X660MW ENNORE SEZ STPP
11. 1X800MW WANAKBORI TPS EXTN-8





PRE - QUALIFYING REQUIREMENTS

DOCUMENT NO: PE-TS-020-000-M057

REVISION NO: 00 DATE: 01.04.2017

SHEET: 1 of 2

Standard document No.: PE-TS-999-000-M057

Enquiry No (To be filled by CMM):

Project: Framework Agreement

Package: Air Traps

CRITERIA FOR EVALUATION (TECHNICAL / FINANCIAL):**1. Technical Pre-Qualifying Requirements:**

1.1 The bidder should have designed, in-house manufactured, tested, inspected and supplied traps (as mentioned below) for use in a power plant or for similar application.

a. Air traps package

CCS air traps with min. 25NB size (without strainer) and CCS external 'Y' type strainer of min. 25NB size.

1.2 The item(s) mentioned in point 1.1 should have performed successfully for atleast one year. To establish meeting this requirement, the bidder shall conform to any one of the following clauses:

- (i) Execution of two purchase orders for different End-users with the item(s) performing successfully for one (1) year from date of commissioning. Different projects of a customer shall be considered as different End-users.
- (ii) Minimum one (1) repeat contract from two (2) different Purchasers (i.e. 2 Nos of Purchase orders from each purchaser). A contract shall be considered as repeat, when the second contract is given by the same purchaser after lapse of minimum one (1) year from supply completion of first contract.
- (iii) Execution of one (1) purchase order as per sl. no. (i) above from one End-user and one (1) repeat contract from another Purchaser as per sl. No. (ii) above.
- (iv) Three (3) repeat contracts from one (1) Purchaser. Second and third repeat contract shall be after lapse of minimum one (1) & two (2) years respectively from supply completion of first contract.

1.3 The bidder to furnish the following documents, as applicable, in support of the above:

- a) For point 1.2(i): Performance certificates from End-user (duly signed & dated) specifying that the product is performing successfully for one (1) year from date of commissioning along with correlated purchase order(s).
- b) For point 1.2 (ii) & (iv): Purchase order(s), Material dispatch clearance certificate (MDCC)/ Material receipt certificate (MRC)/Lorry receipt (LR).

Note: In case vendor has executed contract (s) for BHEL-PEM, internal assessment by BHEL-PEM shall be considered for evaluation for satisfactory performance. For this, vendor to submit a request along-with relevant documents.

PREPARED BY:

Pranjal Omar
01/04/2017
NAME: Pranjal Omar
DESIGNATION: Sr. Engr.
DEPT.: PS-PEM/ MPL

REVIEWED BY:

Rashmi
01/04/17
NAME: Rashmi Prasad
DESIGNATION: MGR.
DEPT.: PS-PEM/ MPL

APPROVED BY:

J. James
01/04/17
NAME: JACOB JAMES
DESIGNATION: DH(MPL & IPDS)



PRE - QUALIFYING REQUIREMENTS

DOCUMENT NO: PE-TS-020-000-M057

REVISION NO: 00 DATE: 01.04.2017

SHEET: 2 of 2

1.4 To establish business continuity, bidder is required to submit atleast two (2) Purchase orders for the item(s) as specified in data sheet-A of technical specification with minimum size of 15NB in last 3 (three) years prior to the date of bid submission defined by BHEL-PEM.

2. Supplier to also comply with general PQR available at internet site of BHEL-PEM.

PREPARED BY:

Pranjal Omar
02/04/2017
NAME: Pranjal Omar
DESIGNATION: Sr. Engr.
DEPT.: PS-PEM/ MPL

REVIEWED BY:

Rashmi
01/04/17
NAME: Rashmi Prasad
DESIGNATION: MGR.
DEPT.: PS-PEM/ MPL

APPROVED BY:

J. James
11/4/17
NAME: JACOB JAMES
DESIGNATION: DH(MPL & IPDS)

FRAMEWORK AGREEMENT

TECHNICAL SPECIFICATION FOR AIR TRAPS

**SPECIFICATION NO. PE-TS-020-555-M011
Rev. no.: 00**



**BHARAT HEAVY ELECTRICALS LIMITED, POWER SECTOR
PROJECT ENGINEERING MANAGEMENT
NOIDA, INDIA**

	TECHNICAL SPECIFICATION AIR TRAPS FRAMEWORK AGREEMENT	SPECIFICATION NO. PE-TS-020-555-M011	
		SECTION: I	
		REV. NO.: 00	DATE:22.03.2017
		SHEET 1 OF 1	

SECTION-I

SPECIFIC TECHNICAL REQUIREMENTS

	TECHNICAL SPECIFICATION AIR TRAPS FRAMEWORK AGREEMENT	SPECIFICATION NO. PE-TS-020-555-M011
		REV. NO.: 00
		DATE: 22.3.2017
		SHEET 1 OF 1

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S No.	SECTION	TITLE	NO. OF SHEETS
1.	SECTION-I	SPECIFIC TECHNICAL REQUIREMENTS	3
2.	SECTION-II	i) DATA SHEET-A	2
		ii) QUALITY PLAN	6
		iii) COMPLIANCE SHEET	1

	SPECIFIC TECHNICAL REQUIREMENTS FOR AIR TRAPS FRAMEWORK AGREEMENT	SPECIFICATION NO: PE-TS-020-555-M011
		SECTION : I
		REV. NO. 00
		DATE: 22.3.2017
		SHEET 1 OF 3

1 GENERAL

- 1.1 The valves shall meet the technical requirements and conform to the requirements of Section-I and Data sheet-A of Section-II. However, in the event of contradictions between Section-I & Section-II/Data Sheet-A, Data Sheet-A will prevail.
- 1.2 The technical requirements for valves shall, in general, be as per the attached Data sheet A of Section-II

2 SCOPE OF SUPPLY

- 2.1 The air traps along with strainer shall be supplied as per Data sheet A of Section II. For detail refer the same.
- 2.2 Commissioning spares, if any.
- 2.3 Mandatory spares as applicable depending upon the project requirement.

3 DESIGN REQUIREMENTS

All traps shall be suitable for removal of water from compressed air piping and shall be suitable for the service conditions i.e. flow, temperature and pressure under which they are required to operate. Those performing similar duties shall be interchangeable with each other unless otherwise specified.

4 CONSTRUCTION FEATURES:

- 4.1 The traps covered in the specification shall be of Ball Float Type/ Inverted Bucket Type with auto-drain arrangement conforming to supplier's own proven design and shall be with Integral/External Strainer designed suitably to prevent the internals of the trap from damage due to dirt etc.
- 4.2 The traps should be with internals easily accessible and replaceable.
- 4.3 Arrow showing inlet should be cast on the body of traps.
- 4.4 For ball float type traps, a balancing line connection shall also be provided at the top of the body.
- 4.5 A metallic (stainless steel plate 2mm thick) nameplate shall be fitted on each trap. Nameplate inscription required for each trap shall be indicated at the contract stage. Inscriptions shall be engraved 1 mm deep filled with enamel paint.

5 MATERIALS

- 5.1 The materials of construction of main parts of traps shall be specified in Data sheet-A.
- 5.2 The materials of construction of the remaining parts shall be suitable for the service conditions shall be subject to approval of the purchaser.
- 5.3 Materials used in manufacture of traps shall be of tested quality.

	SPECIFIC TECHNICAL REQUIREMENTS FOR AIR TRAPS FRAMEWORK AGREEMENT	SPECIFICATION NO: PE-TS-020-555-M011
		SECTION : 1
		REV. NO. 00
		DATE: 22.3.2017
		SHEET 2 OF 3

6 TESTING AND INSPECTION

- 6.1 The items covered under this contract shall be subjected to inspection, testing and quality surveillance. The Inspection Agency shall, at all reasonable times have access to Vendor's works, Quality Control records and all facilities as reasonably required for carrying out the inspection and testing efficiently, and these shall be provided by the vendor free of cost.
- 6.2 The minimum NDT/testing and inspection requirements for traps shall be as per the attached Quality Plan. However, in case of order, final inspection and testing shall be carried out as per the final approved quality plan without any price implications.

7 EXCLUSIONS

Erection & Commissioning of equipment at site is excluded from the bidder's scope.

8 QUALITY ASSURANCE

- 8.1 The Quality Plan enclosed with this specification specify minimum quality control requirement. During contract stage vendor shall furnish this Quality Plan duly signed & stamped for BHEL approval. Quality plans shall be approved by BHEL and customer. All inspection and testing shall be carried out by BHEL/ BHEL representative and customer (as applicable). In case inspection is by both BHEL and their customer, then the inspection can be carried out jointly or separately, which will be informed later. In case of the foreign bidder, inspection shall be carried out by reputed third party.
- 8.2 There may be changes in quality plan depending on customer/consultant comments which will have to be accommodated by vendor at no extra cost.
- 8.3 The minimum NDT/testing and inspection requirements for valve shall be as per the attached Quality Plan. However, in case of order, final inspection and testing shall be carried out as per the final approved quality plan without any price implications.

9 SURFACE PREPARATION AND GALVANIZING

- 9.1 The surfaces of equipment to be galvanised shall be thoroughly cleaned of all grease, oil, loose mill scale, dirt, rust and any other foreign materials as mentioned in IS:2629.
- 9.2 Traps & Strainers bodies shall be hot dip galvanised as per IS:2629 after the necessary testing has been carried out. The minimum thickness of galvanizing shall be minimum 40 microns.

10 PACKING INSTRUCTION

- Each trap shall be drained, cleaned, prepared and suitably protected in such a way so as to minimize the possibility of damage and deterioration during transit and storage.
- The trap shall be dispatched in total assembled form.
- Body ends shall be suitably sealed to protect them against damage during transit and storage.
- Trap Tag Nos. shall be incorporated in all the dispatch documents.
- Proper care shall be taken to avoid damage to the finished surface during transit.
- All the air traps shall be packed suitably in wooden cases in order to avoid damage during transit and also during storage at site in tropical climate conditions for a period of 15-18 months.

	SPECIFIC TECHNICAL REQUIREMENTS FOR AIR TRAPS FRAMEWORK AGREEMENT	SPECIFICATION NO: PE-TS-020-555-M011
		SECTION : I
		REV. NO. 00
		DATE: 22.3.2017
		SHEET 3 OF 3

11 SPARES

- a) **Mandatory Spares:** These shall be as per Data Sheet-A.
- b) Order for the spares may be placed simultaneously or otherwise at the option of purchaser.

12 DOCUMENTS TO BE SUBMITTED ALONG WITH OFFER

Bidder shall submit the following documents duly filled, signed and stamped along with the bid:

- a) Compliance sheet
- b) Documents as per the list indicated in the NIT.

The above are the only documents which will be used for technical evaluation unless other documents are asked for during technical clarifications. Any other technical document enclosed with the bid shall be ignored for the purpose of technical evaluation. All other documents attached with the specification are for information of the vendor and no comments shall be marked on these.

13 DOCUMENTS TO BE SUBMITTED AFTER AWARD OF FRAMEWORK AGREEMENT:

- 13.1 Complete cross sectional arrangement of the Trap and Strainer.
- 13.2 Binding dimensions, dismantling clearances & weights.
- 13.3 Bill of material incorporating all the materials of construction of various parts and also specifying the IS/BS/ASTM standards to which the materials conform to.
- 13.4 Standard Quality Plan duly signed with bidder's company seal as a token of acceptance by the bidder.

The above drawings/ documents will be considered as reference documents for different projects PO which will be placed later.

	TECHNICAL SPECIFICATION AIR TRAPS FRAMEWORK AGREEMENT		SPECIFICATION NO. PE-TS-020-555-M011
			SECTION: II
	REV. NO.: 00		DATE: 22.03.2017
	SHEET 1 OF 1		

SECTION-II

- DATA SHEET – A
- QUALITY PLAN
- COMPLIANCE SHEET

INDENT ESTIMATION SHEET AIR TRAPS FRAMEWORK AGREEMENT		SPECIFICATION NO. : PE-TS-020-555-M011						
		SECTION II						
		DATA SHEET-A						
		REV. NO. : 00 DATE: 21.03.2017					SH: 1 OF 2	
SL. NO.	DESCRIPTION	Size (NB)	Body Mati.	Working Press. (kg/sq.cm)	Working Temp. (deg. C)	End Connection	Quantity MAINS (Nos.)	Quantity Mandatory Spares VALVE SEAT (Nos)
1	BALL FLOAT AIR TRAP (WITHOUT STRAINER) COMPLETE ASSLY.	25	CCS	8.5	50	Screwed as per IS:554 Female Parallel Threaded	547	4
2	EXTERNAL 'Y' TYPE STRAINER COMPLETE ASSLY.	25	CCS	8.5	50	Screwed as per IS:554 Female Parallel Threaded	547	NIL

NOTE :-

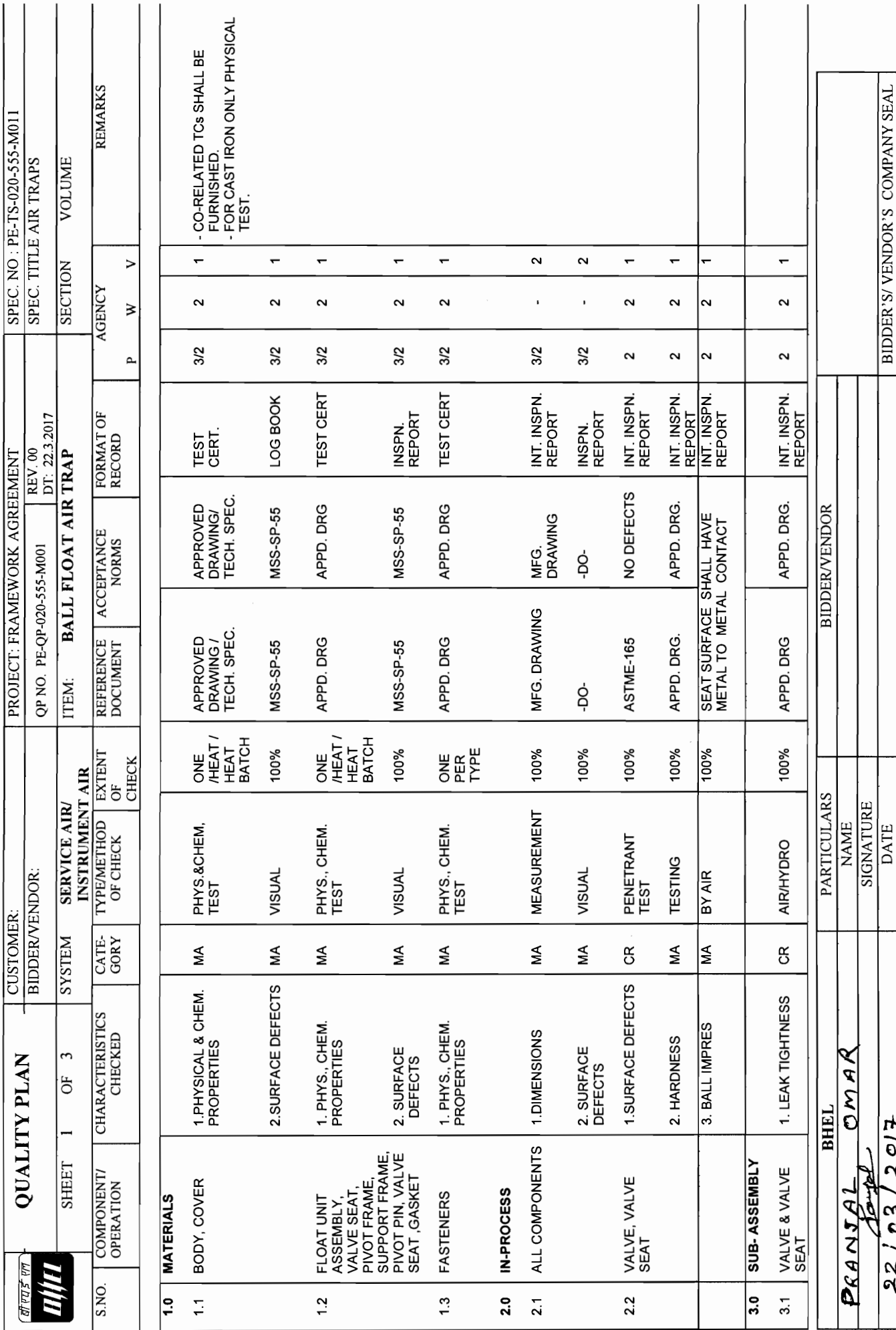
1. Ball float air traps without strainers (at Sl. No. 1) are used with external 'Y' type strainers (at Sl. No. 2). In this case traps and external Y type strainers will be considered as single unit for ordering. Offers will only be considered when both the items are quoted.
2. Bidder to specify flow handling capacity & working pressure for each size of trap.
3. Maximum working Pressure: 8.5kg/cm2(g), Maximum working Temperature: 50 Deg. Cent.
4. Mandatory spares will be valve seat for ball float trap.

22/03/17

	DATA SHEET-A AIR TRAPS FRAMEWORK AGREEMENT		SPECIFICATION NO. PE-TS-020-555-M011
			SECTION : II
			REV. NO.: 00 DATE: 22.3.2017
			Sheet 2 of 2

MATERIAL OF CONSTRUCTION

			PART NAME	MATERIAL REQUIRED
A	BALL FLOAT AIR TRAP (WITHOUT STRAINER) COMPLETE ASSLY.	1	Body and Cover	Cast Carbon Steel as per ASTM A216 Gr. WCB (HDG)
		2	Valve, Valve seat	AISI 420 (furnace hardened to 40 TO 45 RC). Differential hardness shall be maintained between seats.
		3	Float unit assembly, Valve seat gasket, Pivot frame, Support frame and Pivot pin	AISI 304
		4	Bolts/ Nuts	ASTM A193 Gr.B7/ ASTM A194 Gr.2H
B	EXTERNAL 'Y' TYPE STRAINER COMPLETE ASSLY.	1	Body & Cap	ASTM A216 Gr. WCB (HDG)
		2	Screen	SS to AISI 304 - 20 mesh
		3	Gasket	Non - Asbestos type



QUALITY PLAN		CUSTOMER:		PROJECT: FRAMEWORK AGREEMENT		SPEC. NO : PE-TS-020-555-M011	
SHEET 2 OF 3		BIDDER/VENDOR:		QP NO. PE-QP-020-555-M001		SPEC. TITLE AIR TRAPS	
COMPONENT/ OPERATION		CHARACTERISTICS CHECKED		SYSTEM SERVICE AIR/ INSTRUMENT AIR		SECTION VOLUME	
S.NO.	COMPONENT/ OPERATION	CHARACTERISTICS CHECKED	CATE- GORY	TYPE/METHOD OF CHECK	EXTENT OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS
						FORMAT OF RECORD	AGENCY
							P W V
							REMARKS

S.NO.	COMPONENT/ OPERATION	CHARACTERISTICS CHECKED	CATE- GORY	TYPE/METHOD OF CHECK	EXTENT OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	INT. INSPN. REPORT	2	2	1	REMARKS
3.2	COVER	1. ALIGNMENT	MA	VISUAL	100%	--DO--							
4.0	HYDRAULIC TEST (BEFORE GALVANISING)												
4.1	BODY COVER SHELL TEST (BEFORE GALVANISING)	LEAK TIGHTNESS	CR	HYDRO. TEST AT 2 TIMES OF DESIGN PR.	100%	APPD. DRG./TECH. SPEC./DATA SHEET	NO LEAKAGE	TEST CERT		2	2	1	
5.0	GALVANISING												
5.1	HOT DIP GALVANISING OF BODY, COVER	1. SURFACE PREPARATION & THICKNESS OF GALVANISING & UNIFORMITY.	MA	VISUAL & MEASURE-MENT	100%	IS:2629	IS:2629	INSPN REPORT		2	2,1*	-	The minimum thickness of galvanizing shall be minimum 40 microns.
6.0	ASSEMBLY (AFTER GALVANISING)												
6.1	COMPLETE ASSEMBLY	1. CLEANLINESS & COMPLETENESS, DIMENSIONS, THREADING ENDS, ARROW MARKING ETC.	MA	VISUAL & MEASURE-MENT	100%	APPROVED DRAWING	APPROVED DRAWING	INSPN REPORT		2	2,1*	-	
		2. LEAK TIGHTNESS OF BODY	CR	HYDRO. TEST AT 2 TIMES OF DESIGN PR.	100%	APPD. DRG./TECH. SPEC./DATA SHEET	NO LEAKAGE	TEST CERT		2	1*	-	100% inspection/check to be done by manufacturer & 10% or min.2 to be done by BHEL/Customer.
		3. FUNCTIONAL TEST	CR	FUNCTIONAL TEST AT MAXIMUM WORKING PRESSURE	100 %	APPD DRG./ GIVEN PROCEDURE ON PAGE 3/3 OF THIS QP.	NO AIR LEAKAGE	TEST CERT.		2	1*	-	
				(VISUAL DISCHARGE OF CONDENSATE)									

BHEL		PARTICULARS		BIDDER/VENDOR	
PRANJAL		NAME			
Boyd		SIGNATURE			
22/03/2017		DATE		BIDDER'S/ VENDOR'S COMPANY SEAL	

		QUALITY PLAN		CUSTOMER:		PROJECT: FRAMEWORK AGREEMENT		SPEC. NO : PE-TS-020-555-M011	
		BIDDER/VENDOR:		QP NO. PE-QP-020-555-M001		REV. 00 DT: 22.3.2017		SPEC. TITLE AIR TRAPS	
SHEET 3 OF 3		CHARACTERISTICS CHECKED		SYSTEM		SERVICE AIR/ INSTRUMENT AIR		ITEM: BALL FLOAT AIR TRAP	
S.NO.	COMPONENT/ OPERATION	CONDENSATE DISCHARGE	CR	DISCHARGE FLOW	1 PER PRESSURE RATING & ORIFICE SIZE TRAP	APPD. FLOW CAPACITY	APPD. DRG/ TECH. SPEC	TYPE TEST CERTIFICATE	REMARKS
6.2	FLOW CAPACITY TEST (TYPE TEST)								
7.0	END CONN.	DIMENSIONS	CR	MEASUREMENT	100%				
8.0	VERIFICATION OF ALL PREVIOUS TEST CERTIFICATES	REVIEW OF ALL TEST CERTIFICATES/ INSP. REPORTS AS PER TECH. SPEC.	MA	VISUAL	100%				
9.0	PROVISION OF NAME PLATE WITH PURCHASER'S TRAP TAG NOS. & PACKING IN WOODEN CASES	AS PER TECHNICAL SPECIFICATION	MA	VISUAL	100%				

6.2	FLOW CAPACITY TEST (TYPE TEST)	CONDENSATE DISCHARGE	CR	DISCHARGE FLOW	1 PER PRESSURE RATING & ORIFICE SIZE TRAP	APPD. FLOW CAPACITY	APPD. DRG/ TECH. SPEC	TYPE TEST CERTIFICATE	3/2	2	1	
7.0	END CONN.	DIMENSIONS	CR	MEASUREMENT	100%			INSPN REPORT	3/2	2,1*	-	
8.0	VERIFICATION OF ALL PREVIOUS TEST CERTIFICATES	REVIEW OF ALL TEST CERTIFICATES/ INSP. REPORTS AS PER TECH. SPEC.	MA	VISUAL	100%			INSPN REPORT	2	1	-	
9.0	PROVISION OF NAME PLATE WITH PURCHASER'S TRAP TAG NOS. & PACKING IN WOODEN CASES	AS PER TECHNICAL SPECIFICATION	MA	VISUAL	100%			(Soft copy of photographs)	2	2	1	

Vendor to provide the following:
Photographs of traps duly placed inside the wooden box just before final packing.
Photographs of the wooden box in which the traps have been finally packed just before dispatch.
Clearance for dispatch of valves/traps will be given only after receiving the photos of valves/traps in satisfactory condition as mentioned in the condition stated above.

FUNCTIONAL TEST PROCEDURE.

- COMPRESSED AIR AT MAXIMUM WORKING PRESSURE IS SUPPLIED IN A MIXING CHAMBER.
 - WATER IS ADDED IN THE SAME CHAMBER SO THAT AIR IN THE CHAMBER HAS SUFFICIENT MOISTURE
 - TRAP IS INSTALLED AT THE BOTTOM OF THIS CHAMBER AND ITS PERFORMANCE IS CHECKED.
- A GOOD PERFORMING TRAP **DRAINS OUT ONLY WATER DROPLETS** AND RETAINS **COMPRESSED AIR BACK IN THE SYSTEM.**

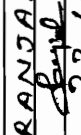
NOTE:-

CR- MEANS CRITICAL ACTIVITY
1 = PURCHASER (BHEL/CUSTOMER)
P = PERFORMED BY

MA- MEANS MAJOR ACTIVITY
2 = VENDOR
W = WITNESSED BY

MI- MEANS MINOR ACTIVITY
3 = SUB VENDOR OF THE VENDOR
V = VERIFIED BY

* The Quantum of check to be witnessed is 10% or Min. 2 Nos. at random by BHEL/Customer & 100 % by Vendor for each type, Size & Rating.

BHEL		PARTICULARS		BIDDER/VENDOR	
PRANJAL OMAH  22/03/2017		NAME			
		SIGNATURE			
		DATE			
BIDDER'S/ VENDOR'S COMPANY SEAL					

QUALITY PLAN				CUSTOMER:		PROJECT: FRAMEWORK AGREEMENT		SPEC. NO.: PE-TS-020-555-M011	
				BIDDER/VENDOR:		QP NO.: PE-QP-020-555-M016		REV. 00	
SHEET 1 OF 3				SYSTEM		SERVICE/INSTRUMENT		DT: 22.3.2017	
				AIR		ITEM: EXTERNAL Y-TYPE AIR STRAINER		SECTION VOLUME	
S.NO.	COMPONENT/OPERATION	CHARACTERISTICS CHECKED	CATEGORY	TYPE/METHOD OF CHECK	EXTENT OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY
									P W V
									REMARKS

1.0	MATERIAL CONTROL		MA	PHYS TESTS CHEM TESTS	ONE/HEAT/ BATCH	APPD. DATA SHEET/ TECH. SPEC.	APPD. DATA SHEET/ TECH. SPEC.	TEST CERT.	3/2	2	1	CORRELATION REQD. FOR CAST IRON, ONLY PHYS. TEST
1.1	BODY, CAP	1 PHYS & CHEM PROPERTIES	MA	PHYS TESTS	100%	---	---	INSPN. REPORT	3/2	2	1	
1.2	MESH	2. SURFACE DEFECTS	MA	VISUAL								
		1. CHEM PROPERTIES	MA	CHEM. TESTS	1/SHEET	APPD. DATA SHEET/ TECH. SPEC.	APPD. DATA SHEET/ TECH. SPEC.	TEST CERT	3/2	2	1	
2.0	IN PROCESS CONTROL	2. MESH SIZE/ PERFORATION DIA	MA	MEASUREMENT	SAMPLE PIECE	---	---	INSPN REPORT	3/2	2	1	
2.1	ALL COMPONENTS	1. WORKMANSHIP & FINISH	MA	VISUAL	100%	MFG DRG	MFG DRG	INSP REPORT	2	2	1	
		2. DIMENSIONS	MA	MEASUREMENT	100%	MFG DRG	MFG DRG	MFG DRG	2	2	1	
3.0	HYDRAULIC TEST (BEFORE GALVANISING)											
3.1	BODY CAP (BEFORE GALVANISING)	LEAK TIGHTNESS	CR	HYDROTEST AT 2 TIMES THE DESIGN PRESSURE	100%	APPD. DRG/T ECH. SPEC	NO LEAKAGE	TEST CERT	2	2	1	100% inspection/check to be done by manufacturer & 10% or min. 2 to be done by BHEL/ Customer.
4.0 4.1	GALVANISING HOT DIP GALVANISING OF BODY, COVER	1. SURFACE PREPARATION & THICKNESS OF GALVANISING & UNIFORMITY.	MA	VISUAL & MEASURE-MENT	100%	IS:2629	IS:2629	INSPN REPORT	2	* 2,1	-	The minimum thickness of galvanizing shall be minimum 40 microns.

BHEL		PARTICULARS		BIDDER/VENDOR	
PRANJAL OMA R <i>Pranjal</i> 22/03/2017		NAME			
		SIGNATURE			
		DATE			
BIDDER'S/ VENDOR'S COMPANY SEAL					

		QUALITY PLAN		CUSTOMER: BIDDER/VENDOR:		PROJECT: FRAMEWORK AGREEMENT QP NO.: PE-QP-020-555-M016 REV. 00 DT: 22.3.2017		SPEC. NO.: PE-TS-020-555-M011	
SHEET 2 OF 3		CHARACTERISTICS CHECKED		SYSTEM SERVICE/ INSTRUMENT AIR		ITEM: EXTERNAL Y-TYPE AIR STRAINER		SPEC. TITLE AIR TRAPS SECTION VOLUME	
S.NO.	COMPONENT/ OPERATION	CHARACTERISTICS CHECKED	CATE- GORY	TYPE/METHOD OF CHECK	EXTENT OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY P W V

ASSEMBLY CONTROL (AFTER GALVANISING)									
5.0	COMPLETE STRAINER	1. WORKMANSHIP AND FINISH 2. OVERALL DIMENSIONS 3. LEAK TIGHTNESS, DIMENSIONS	MA CR CR CR	VISUAL MEASUREMENT HYDROTEST AT 2 TIMES THE DESIGN PRESSURE MEASUREMENT	100% 100% 100% 100%	APPD.DRG ---DO---	APPD.DRG DO---	INSPN. REPORT --DO-- TEST CERT INSPN REPORT	2 2 2 2
6.0	END CONN.								
7.0	VERIFICATION OF ALL PREVIOUS TEST CERTIFICATES/ INSPN. REPORTS	REVIEW OF ALL TEST CERTIFICATES/ INSPN. REPORTS OF PREVIOUS STAGES	MA	VISUAL	100%	TECH SPEC	TECH SPEC	INSPN REPORT	2 1 -
8.0	PROVISION OF NAME PLATE WITH PURCHASER'S STRAINER TAG NOS IF ANY & PACKING IN WOODEN CASES	AS PER TECH. SPEC	MA	VISUAL	100%	TECH. SPEC	TECH. SPEC	(Soft copy of photographs)	3/2 2 1
Vendor to provide the following: a) Photographs of strainer duly placed inside the wooden box just before final packing. b) Photographs of the wooden box in which the strainer have been finally packed just before dispatch. Clearance for dispatch of valves/traps will be given only after receiving the photos of valves/traps in satisfactory condition as mentioned in the condition stated above.									

BHEL		PARTICULARS		BIDDER/VENDOR	
PRANJAL Omapr		NAME			
Baya		SIGNATURE			
22/03/2017		DATE			
BIDDER'S/ VENDOR'S COMPANY SEAL					

		QUALITY PLAN		CUSTOMER: BIDDER/VENDOR:		PROJECT: FRAMEWORK AGREEMENT QP NO. : PE-QP-020-555-M016 REV. 00 DT: 22.3.2017		SPEC. NO : PE-TS-020-555-M011	
SHEET 3 OF 3		SYSTEM		SERVICE/ INSTRUMENT AIR		ITEM: EXTERNAL Y-TYPE AIR STRAINER		SPEC. TITLE AIR TRAPS SECTION VOLUME	
COMPONENT/ OPERATION		CHARACTERISTICS CHECKED		CATE- GORY		TYPE/METHOD OF CHECK		EXTENT OF CHECK	
S.NO.		REFERENCE DOCUMENT		ACCEPTANCE NORMS		FORMAT OF RECORD		AGENCY P W V	
REMARKS									

NOTE: CR = CRITICAL ACTIVITY MA = MAJOR ACTIVITY MI = MINOR ACTIVITY

1 = PURCHASER (BHEL/CUSTOMER) 2 = VENDOR 3 = SUB VENDOR OF THE VENDOR

P = PERFORMED BY W = WITNESSED BY V = VERIFIED BY

* The Quantum of check to be witnessed is 10% or Min. 2 Nos. at random by BHEL/Customer & 100 % by Vendor for each type, Size & Rating.

BHEL		PARTICULARS		BIDDER/VENDOR	
PRANJAL OMAR		NAME			
22/03/2017		SIGNATURE			
		DATE			
BIDDER'S/ VENDOR'S COMPANY SEAL					

	COMPLIANCE SHEET BALL VALVES FRAMEWORK AGREEMENT		SPECIFICATION NO. PE-TS-020-555-M011	
			SECTION : II	
	REV. NO.: 00		DATE: 22.03.2017	
	Sheet 1 of 1			

I hereby comply/not comply (*) to all the requirements of this technical specification in totality.

* In case the bidder does not comply to the technical specification, the deviations shall be explicitly listed in the technical deviation sheet of GCC. Deviations listed in technical deviation sheet shall only be considered.

Name of Bidder / Authorized Representative :-

Designation :-

Signature :-

Company Seal :-

Date :-

PARTICULARS OF BIDDER / AUTHORISED REPRESENTATIVE				
NAME	DESIGNATION	SIGNATURE	DATE	COMPANY SEAL

BANK GUARANTEE FOR PERFORMANCE SECURITY

Bank Guarantee No:

Date:

To

NAME

& ADDRESSES OF THE BENEFICIARY

Dear Sirs,

In consideration of the Bharat Heavy Electricals Limited ¹ (hereinafter referred to as the 'Employer' which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns) incorporated under the Companies Act, 1956 and having its registered office at _____ through its Unit at.....(name of the Unit) having awarded to (Name of the Vendor / Contractor / Supplier) having its registered office at _____ ² hereinafter referred to as the 'Contractor/Supplier', which expression shall unless repugnant to the context or meaning thereof, include its successors and permitted assigns), a contract Ref No.....dated³ valued at Rs.....⁴ (Rupees -----)/FC.....(in words.....) for⁵ (hereinafter called the 'Contract') and the Contractor having agreed to provide a Contract Performance Guarantee, equivalent to% (.... Percent) of the said value of the Contract to the Employer for the faithful performance of the Contract,

we,, (hereinafter referred to as the Bank), having registered/Head office at and inter alia a branch at being the Guarantor under this Guarantee, hereby, irrevocably and unconditionally undertake to forthwith and immediately pay to the Employer a maximum amount Rs ----- (Rupees -----) without any demur, immediately on a demand from the Employer, .

Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

We undertake to pay to the Employer any money so demanded notwithstanding any dispute or disputes raised by the Contractor/ Supplier in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this Guarantee shall be a valid discharge of our liability for payment thereunder and the contractors/supplier shall have no claim against us for making such payment.

We thebank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Contract and that it shall continue to be enforceable till all the dues of the Employer under or by virtue of the said Contract have been fully paid and its claims satisfied or discharged.

We BANK further agree with the Employer that the Employer shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Contract or to extend time of performance by the said Contractor/Supplier from time to time or to postpone for any time or from time to time any of the powers exercisable by the Employer against the said Contractor/Supplier and to forbear or enforce any of the terms and conditions relating to the said Agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor/Supplier or for any forbearance, act or omission on the part of the Employer or any indulgence by the Employer to the said Contractor/Supplier or by any such matter or thing whatsoever which under the law relating to sureties would but for this provision have effect of so relieving us.

The Bank also agrees that the Employer at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance without proceeding against the Contractor and notwithstanding any security or other guarantee that the Employer may have in relation to the Contractor's liabilities.

This Guarantee shall remain in force upto and including.....⁶ and shall be extended from time to time for such period as may be desired by Employer.

This Guarantee shall not be determined or affected by liquidation or winding up, dissolution or change of constitution or insolvency of the Contractor/Supplier but shall in all respects and for all purposes be binding and operative until payment of all money payable to the Employer in terms thereof.

Unless a demand or claim under this guarantee is made on us in writing on or before the⁷we shall be discharged from all liabilities under this guarantee thereafter.

We, BANK lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Employer in writing.

Notwithstanding anything to the contrary contained hereinabove:

- a) The liability of the Bank under this Guarantee shall not exceed.....⁸
- b) This Guarantee shall be valid up to⁹
- c) Unless the Bank is served a written claim or demand on or before¹⁰ all rights under this guarantee shall be forfeited and the Bank shall be relieved and discharged from all liabilities under this guarantee irrespective of whether or not the original bank guarantee is returned to the Bank.

We, _____ Bank, have power to issue this Guarantee under law and the undersigned as a duly authorized person has full powers to sign this Guarantee on behalf of the Bank.

For and on behalf of
(Name of the Bank)

Dated.....

Place of Issue.....

¹ NAME AND ADDRESS OF EMPLOYER I.e Bharat Heavy Electricals Limited

² NAME AND ADDRESS OF THE VENDOR /CONTRACTOR / SUPPLIER.

³ DETAILS ABOUT THE NOTICE OF AWARD/CONTRACT REFERENCE

⁴ PROJECT/SUPPLY DETAILS

⁵ BG AMOUNT IN FIGURES AND WORDS

⁶ VALIDITY DATE

⁷ DATE OF EXPIRY OF CLAIM PERIOD

⁸ BG AMOUNT IN FIGURES AND WORDS.

⁹ VALIDITY DATE

¹⁰ DATE OF EXPIRY OF CLAIM PERIOD

Note:

1. Units are advised that expiry of claim period may be kept 2/3 months after validity date.
2. In Case of Bank Guarantees submitted by Foreign Vendors-
 - a. **From Nationalized/Public Sector / Private Sector/ Foreign Banks (BG issued by Branches in India)** can be accepted subject to the condition that the Bank Guarantee should be enforceable in the town/city or at nearest branch where the Unit is located i.e. Demand can be presented at the Branch located in the town/city or at nearest branch where the Unit is located.
 - b. **From Foreign Banks (wherein Foreign Vendors intend to provide BG from local branch of the Vendor country's Bank)**
 - b.1 In such cases, in the Tender Enquiry/ Contract itself, it may be clearly specified that Bank Guarantee issued by **any of the Consortium Banks only** will be accepted by BHEL. As such, Foreign Vendor needs to make necessary arrangements for issuance of Counter- Guarantee by Foreign Bank in favour of the Indian Bank (BHEL's Consortium Bank). It is advisable that all charges for issuance of Bank Guarantee/ counter- Guarantee should be borne by the Foreign Vendor. The tender stipulation should clearly specify these requirements.
 - b.2 In case, Foreign Vendors intend to provide BG from Overseas Branch of our Consortium Bank (e.g. if a BG is to be issued by SBI Frankfurt), the same is acceptable. However, the procedure at sl.no. b.1 will required to be followed.
 - b.3 The BG issued may preferably be subject to Uniform Rules for Demand Guarantees (URDG) 758 (as amended from time to time). In case, of Foreign Vendors, the BG Format provided to them should clearly specify the same.
 - b.4 The BG should clearly specify that the demand or other document can be presented in electronic form.

ANNEXURE-II: DEVIATION SHEET (COST OF WITHDRAWAL)**PROJECT:-****PACKAGE:-****TENDER ENQUIRY REFERENCE:-****NAME OF VENDOR:-**

SL NO	VOULME/ SECTION	PAGE NO.	CLAUSE NO.	TECHNICAL SPECIFICATION/ TENDER DOCUMENT	COMPLETE DESCRIPTION OF DEVIATION	COST OF WITHDRAWAL OF DEVIATION	REFERENCE OF PRICE SCHEDULE ON WHICH COST OF WITHDRAWAL OF DEVIATION IS APPLICABLE	NATURE OF COST OF WITHDRAWAL OF DEVIATION (POSITIVE/ NEGATIVE)	REASON FOR QUOTING DEVIATION
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TECHNICAL DEVIATIONS

COMMERCIAL DEVIATIONS

PARTICULARS OF BIDDERS/ AUTHORISED REPRESENTATIVE

NAME	DESIGNATIONS	SIGN & DATE	
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NOTES:

- For self manufactured items of bidder, cost of withdrawal of deviation will be applicable on the basic price (i.e. excluding taxes, duties & freight) only.
- For directly dispatchable items, cost of withdrawal of deviation will be applicable on the basic price including taxes, duties & freight.
- All the bidders have to list out all their Technical & Commercial Deviations (if any) in detail in the above format.
- Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.
- Bidder shall submit duly filled unpriced copy of above format indicating "quoted" in "cost of withdrawal of deviation" column of the schedule above along with their Techno-commercial offer, wherever applicable.
- Bidder shall furnish price copy of above format along with price bid.
- The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.
- Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.
- For deviations w.r.t. Payment terms, Liquidated damages, Firm prices and submission of E1/ E2 forms before claiming 10% payment, if a bidder chooses not to give any cost of withdrawal of deviation loading as per Annexure-VIII of GCC, Rev-06 will apply. For any other deviation mentioned in un-priced copy of this format submitted with Part-I bid but not mentioned in priced copy of this format submitted with Priced bid, the cost of withdrawal of deviation shall be taken as NIL.
- Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted.
- All techno-commercial terms and conditions of NIT shall be deemed to have been accepted by the bidder, other than those listed in unpriced copy of this format.
- Cost of withdrawal is to be given separately for each deviation. In no event bidder should club cost of withdrawal of more than one deviation else cost of withdrawal of such deviations which have been clubbed together shall be considered as NIL.
- In case nature of cost of withdrawal (positive/negative) is not specified it shall be assumed as positive.
- In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.