



Ref. Enquiry No.: PE/PG/RTC/E-5558/2017

Dated: 10/04/2017

TENDER ENQUIRY THROUGH E-PROCUREMENT

DUE DATE
21/04/2017
BY 1400 HRS

SUBJECT: TENDER ENQUIRY FOR RATE CONTRACT OF BALL VALVES AS PER TECHNICAL SPECIFICATION NO. PE-TS-20-100-M004

OUR REF: TENDER ENQUIRY NO: PE/PG/RTC/E-5558/2017, DTD-10/04/2017

Dear Sir/ Ma'am,

We are pleased to invite your offer for subject package in two parts strictly as per Clause-2.0 of the enclosed "Instructions to Bidders". Please upload your best quotation/ offer 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	BALL VALVES - Refer Technical specification no PE-TS-20-100-M004 for detailed description.	As per BOQ cum price schedule (in Annexure-I) cumulative for the Prospective Projects as per Annexure-III	Delivery: - "Four (04) months from drgs. /docs. approval in CAT-I issued by BHEL. Successful bidder to make 1st submission of drawing/docs as per list mentioned in clause 13 of Technical Specification-PE-TS-020-100-M004 within 10 days from the date of P.O. Vendor to re-submit documents within 7 days, taking care of all the comments of BHEL. 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."

Your best quotation/offer for the above requirement, in line with our terms and conditions, should be submitted online via e-procurement system. It shall be the responsibility of the bidder to ensure that the Tender is submitted on or before the due date by 2 p.m. Part-I bids shall be opened at 3 p.m. on the due date in the presence of authorized representatives of the bidders, who may like to be present.

Note:-

1. Documents and Credential as per Technical PQR, Techno Commercial Bids and Price Bids should be uploaded on the e-procurement portal.
3. Evaluation will be done on overall L1 (Total cost to BHEL) basis with necessary loading as applicable. Incomplete offer or offer for part of NIT BOM/BOQ shall be summarily rejected.

Please refer GCC Rev-06 which is available on www.bhlepem.com. You are requested to kindly download the same.

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1. Rate contract on firm price basis is proposed for 2 years from placement of Rate Contract PO with a provision for further extension after review on mutual consent.

Rate Contract is proposed to be done with 2 vendors in ratio of 60: 40, value wise at L1 FOR site price for subject package (% 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 (only for the BOQ required as per specific project requirement) shall not be split and will be placed on single vendor.

Evaluation will be done on overall L1 (Total cost to BHEL) basis with necessary loading as applicable.

2. Prices shall be firm.
3. 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 for given BOQ at Column No. 18) of Annexure I.
 - c) Bidders also require to mention % of taxes/ duties (against respective column for ED, CST & Service Tax) applicable for each item.
 - 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.
4. 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. Vendors shall be asked to quote prices with CST against form C and same state ordering shall not be done to save VAT.
5. Vendor shall be informed 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.

TERMS AND CONDITIONS

1. Procurement of the subject package shall be done through e-procurement
2. Enquiry No., due date etc. must be legibly super scribed on the offers as per clause no. 2.0 of "Instructions to Bidders".
3. Offers should be uploaded in two parts online at <https://bheleps.buyjunction.in> as follows:
 - a) Part-I Bid :- Documents and Credential as per Technical PQR and Techno-Commercial offer (along with un-priced copy of un-priced bid and un-priced schedule of Technical-Commercial Deviation, Annexure I & II)
 - b) Part II Bid :- Price Bid and Priced schedule of Technical-Commercial Deviation

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4. Terms and conditions:-
- a) Part I bid will be opened on date & time mentioned in the NIT or subsequent corrigenda/amendments, if any.
- b) **Techno-commercial offer of only those bidders shall be evaluated who will meet the Technical pre-qualifying requirement of the tender.**
5. **Bidders shall submit their offers meeting the requirements of the following tender documents and other Terms and Conditions included in this Enquiry Letter:**
- **ANNEXURE-I of GCC Rev. 06:** Letter to be furnished by the Bidders.
 - **DEFINITION OF TERMS.**
 - **Volume-I:** Comprising i) **Part-A:** Instructions to Bidders, ii) **Part-B:** General Commercial Terms & Conditions and iii) Special Conditions of Contract, if applicable.
 - **Volume-II:** Comprising i) **Part-A:** General Technical Conditions and, ii) **Part-B:** Technical Specification.
 - **Volume-III:** Schedules and Data Sheets.
- All the above Tender Documents shall automatically become a part of the Order/Contract after its finalisation.
6. Vendors shall quote in accordance with the requirements mentioned in the tender documents. In case of deviations (Technical/ Commercial), the same shall be highlighted separately giving Clause references along with the Cost of withdrawal of Deviations as per **Annexure-II to GCC Rev 06 of "DEVIATION SHEET (COST OF WITHDRAWAL)"** along with reasons for taking such deviations
Bidder to note all the points mentioned in "Notes" of Annexure-II to GCC Rev 06
7. **Please note the following:**
- a. **Price format is enclosed for compliance.**
- b. **SCC enclosed for compliance.**
- c. **GCC enclosed for compliance. GCC Rev-06 is available on www.bhelpem.com. You are requested to kindly download the same.**
8. Tenders shall be submitted strictly in accordance with the requirements of the above tender documents.
9. Standard pre-printed terms & conditions of the tenderers shall not be considered valid.
10. Validity of offer shall be as per **Clause No. 7.0, "Instructions to Bidders" of GCC Rev 06.**
11. Unsolicited fresh/revised Price Bids shall not be entertained.
12. 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.
13. Late tenders will be rejected.
14. Tenders and all correspondence thereof, shall be addressed to the undersigned by name & designation and sent at the following address:

Mr. KUNAL GANDHI, Sr. Engr./CMM
M/s Bharat Heavy Electricals Ltd.,
Project Engineering Management,
Power Project Engineering Institute,
HRD & ESI Complex,
Plot No 25, Sector-16 A, Noida-201301
Kind Attn: KUNAL GANDHI/ CMM
E-MAIL: kunalgandhi@bhelpem.co.in
Ph. No. 0120-4368574/ 9650183377

Mr. I P SINGH, SR MANAGER, CMM
M/s Bharat Heavy Electricals Ltd.,
Project Engineering Management,
Power Project Engineering Institute,
HRD & ESI Complex,
Plot No 25, Sector-16 A, Noida-201301
Kind Attn: I P SINGH/ CMM
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Ph. No. 0120- 4218749, 09818989654

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15. **PRE-QUALIFICATION REQUIREMENT: -**

Bidders is requested to submit the documents satisfying the "TECHNICAL PRE-QUALIFYING REQUIREMENT" as per the conditions mentioned in the PQR.

Bids of only those bidders shall be evaluated who meet the Technical pre-qualifying requirements (if applicable).

16. 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"

17. **Bidders have to quote freight charges in percentage of their quoted ex-works prices for Indigenous items.**

18. Limit on quantity variation shall be plus 30% of Contract Value (Ex Works) till validity of RC. The Purchaser shall have the right to increase or decrease quantities and scope upto the above extent of value and Seller/ Contractor shall be bound to accept the same at the contracted prices without any escalation.

19. Project list is indicative only, BHEL may ask for delivery anywhere in India for any of the project added in the prospective project/ existing projects during RC period.

20. Bidder has to submit "NO DEVIATION CERTIFICATE FOR COMMERCIAL TERMS AND CONDITIONS AS PER GCC (06), SCC AND NIT". In case of deviations, bidder to clearly mention the same with their techno-commercial offer as per Point No-5 of NIT.

21. All the above Tender Documents shall automatically become a part of the Order/Contract after its finalization.

22. **The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com.**

23. **"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."**

BHEL Fraud prevention policy is also uploaded in vendor's section on www.bhelpem.com.

24. Bidders are requested to visit constantly our website to update them self for any technical or commercial change in the NIT.

25. All corrigenda, addenda, amendments, time extensions, clarifications etc. to the tender will be hosted on BHEL websites only (www.bhelpem.com, www.bhel.com & <https://bheleps.buyjunction.in>) under subject tender reference. Bidders are requested to visit our websites from time to time to keep themselves updated. **Bidders may go through the Sellers' manual & Help documents provided on E-Procurement Portal website & obtain required Digital Signature Certificate for participating in the subject Tender. For Bidders' convenience, the Helpdesk Nos. of E-Procurement Portal m-junction are also listed below:**

MJUNCTION HELPDESK Nos. 033-6601 1717, 9163348283 / 9163348284 / 9163348285 / 9163348286 / 8584008116 / 8584008205, eps.customercare@mjunction.in

CRM Contact Details:

Mr. Santosh Kumar - Cell No. 09717149600, santosh.kumar@mjunction.in

Ms. Rimi Ghosh - Cell No 09650044156, rimi.ghosh@mjunction.in

26. **CIF allocation is not applicable for this tender. Bidder to quote accordingly.**

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27. Bidders to submit their offers strictly in line with the enclosed price format.
28. Inspection shall be done by BHEL/ END CUSTOMER/Third party Agency (finalized by BHEL).
29. Any other taxes & duties applicable on the date of bid but not quoted by the bidders shall be to bidder account.
30. Delivery terms for dispatches shall be FOR Dispatch Station.
31. This enquiry is subject to Conditions/ limits if any imposed in PMD / Vendor registration.
32. Bidders participating through open tender will necessarily have to but class III DSCs issued by the certifying authorities in India. Basic procedure/ checklist is uploaded on www.bhel.com.
33. Non- registered bidder to submit the credentials required for Registration in BHEL PEM: -
"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."
34. 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.
35. 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. Price are to be inclusive of Packing & Forwarding charges, all the routine & type tests as per tender scope, ED + cess, CST against C-

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form/VAT, Freight as applicable, insurance charges, etc. including loading (if any). De-loading (if any) shall be done in line with SCC.

IMPORTANT INSTRUCTION TO BIDDERS IN CASE OF REVERSE AUCTION

The Bidders has to quote the Single Price (i.e. Total Cost to BHEL) in Reverse Auction i. e. Price mentioned in Column No. 19 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.

Following Condition in 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.

Kindly consider the same while quoting the tender.

36. L1 bidder will have to submit Bank Guarantee for each POs (irrespective of value) which will be placed under the Rate Contract finalised through this tender considering RA as original contract as per format mentioned in Annexure B to NIT instead of format mentioned in GCC Rev 06
37. 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.
38. "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".

Note: Tenderer must submit UN-PRICED Price format duly filled mentioning the word "QUOTED" in place of actual price given in sealed price bid.

(K)

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कुणाल गांधी
अभियन्ता (वी.सी.)
पी.एच.ई. लि. / पी.ई.एम. नोएडा
10/04/2017

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

(Signature of official with Name & Designation)

Enclosures:

- NIT (this letter itself)
- Annexure-I: Price Format
- Annexure-II: Special Conditions of Rate Contract (SCC).
- Annexure-III: List of prospective projects
- Annexure-IV: PQR (Pre-qualifying Requirement)
- Annexure-V: Technical Specification No. PE-TS-020-100-M004
- Annexure-VI Cost of Withdrawal sheet (Annexure-II of GCC Rev. 06) & PBG Format

SL. NO.	TYPE OF VALVE	SIZE (NB)	OPERATION	DESIGN		SERVICE	RATING, DESIGN & TESTING CODE	BODY MATERIAL	TRIM MATERIAL	END CONN	SPECIAL FEATURES	MATCHING PIPE OD x THK		MAIN VALVES QTY WITHOUT COMMISSIONING SPARES	COMMISSIONING SPARES(SETS)	UNIT PRICE EX- WORKS (DULY PACKED) (Rs)	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.) (r)	TOTAL F.O.R. SITE PRICE (Rs.)	%CONTRIBUTION OF TOTAL QUANTITY OF A VALVE (MAIN VALVES) MENTIONED IN 15 W.R.T. TOTAL PRICE	%CONTRIBUTION OF TOTAL QUANTITY OF COMMISSIONING SPARES MENTIONED IN 16 REQUIRED FOR A PARTICULAR MAIN VALVE W.R.T. TOTAL PRICE
				PRESSURE KG/CM2(G)	TEMP. (DEG ⁰ C)							MM	MM										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18=X*(23+24)	19	20	21	22	23	24
1	Ball	15	MAN	8	50	IA & SA SYSTEMS	CL. 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316	SOCKET WELDED AS PER B 16.11	EXTENDED PIECE ON BOTH SIDES	21.3	2.8	998	100	Derived	Derived	%To be quoted	%To be quoted	% to be quoted	Derived	8.703	0.075
2	Ball	25	MAN	8	50	IA & SA SYSTEMS	CL. 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316	SOCKET WELDED AS PER B 16.11	EXTENDED PIECE ON BOTH SIDES	33.4	3.4	670	69	Derived	Derived	%To be quoted	%To be quoted		Derived	10.176	0.095
3	Ball	40	MAN	8	50	IA & SA SYSTEMS	CL. 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316	SOCKET WELDED AS PER B 16.11	EXTENDED PIECE ON BOTH SIDES	48.3	3.68	56	7	Derived	Derived	%To be quoted	%To be quoted		Derived	2.177	0.025
4	Ball	50	MAN	8	50	IA & SA SYSTEMS	CL. 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316	SOCKET WELDED AS PER B 16.11	EXTENDED PIECE ON BOTH SIDES	60.3	3.91	230	24	Derived	Derived	%To be quoted	%To be quoted		Derived	10.826	0.112
5	Ball	80	MAN	8	50	IA & SA SYSTEMS	CL. 150 OF ISO 17292	CAST STAINLESS STEEL AS PER ASTM A351 CF8M	SS 316	FLANGED AS PER ASME B 16.5 R/F	–	88.9	3.05	43	8	Derived	Derived	%To be quoted	%To be quoted		Derived	3.349	0.056
6	BALL	100	MAN	8	50	IA & SA SYSTEMS	CL. 150 OF ISO 17292	CAST STAINLESS STEEL AS PER ASTM A351 CF8M	SS 316	FLANGED AS PER ASME B 16.5 R/F	–	114.3	3.05	4	2	Derived	Derived	%To be quoted	%To be quoted		Derived	0.487	0.022
7	Ball	150	MAN	8	50	IA & SA SYSTEMS	CL. 150 OF ISO 17292	CAST STAINLESS STEEL AS PER ASTM A351 CF8M	SS 316	FLANGED AS PER ASME B 16.5 R/F	–	168.3	3.4	153	18	Derived	Derived	%To be quoted	%To be quoted		Derived	39.101	0.414
8	BALL	15	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL. 800 OF ISO 17292	FORGED CARBON STEEL AS PER ASTM A105	SS 316	SCREWED AS PER IS:554 FEMALE PARALLEL	HOT DIP GALVANIZED	21.8	3.2	273	26	Derived	Derived	%To be quoted	%To be quoted	% to be quoted	Derived	1.171	0.014
9	BALL	25	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL. 800 OF ISO 17292	FORGED CARBON STEEL AS PER ASTM A105	SS 316	SCREWED AS PER IS:554 FEMALE PARALLEL	HOT DIP GALVANIZED	34.2	4	239	23	Derived	Derived	%To be quoted	%To be quoted		Derived	1.223	0.014
10	BALL	50	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL. 800 OF ISO 17292	FORGED CARBON STEEL AS PER ASTM A105	SS 316	SCREWED AS PER IS:554 FEMALE PARALLEL	HOT DIP GALVANIZED	60.8	4.5	67	7	Derived	Derived	%To be quoted	%To be quoted		Derived	1.23	0.015
11	BALL	80	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL. 150 OF ISO 17292	CAST CARBON STEEL AS PER ASTM A216 Gr. WCB	SS 316	FLANGED AS PER ASME B 16.5 R/F	HOT DIP GALVANIZED	89.5	4.8	14	6	Derived	Derived	%To be quoted	%To be quoted		Derived	0.798	0.041
12	BALL	100	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL. 150 OF ISO 17292	CAST CARBON STEEL AS PER ASTM A216 Gr. WCB	SS 316	FLANGED AS PER ASME B 16.5 R/F	HOT DIP GALVANIZED	115	5.4	27	8	Derived	Derived	%To be quoted	%To be quoted		Derived	2.16	0.011
13	BALL	150	MAN	8.5-8.8	50	IA & SA SYSTEMS	CL. 150 OF ISO 17292	CAST CARBON STEEL AS PER ASTM A216 Gr. WCB	SS 316	FLANGED AS PER ASME B 16.5 R/F	HOT DIP GALVANIZED	166.5	5.4	77	10	Derived	Derived	%To be quoted	%To be quoted		Derived	12.204	0.024
14	BALL	15	MAN	8.5-9	50	IA & SA SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2	SCREWED AS PER IS:554 FEMALE PARALLEL	–	21.8	3.2	578	57	Derived	Derived	%To be quoted	%To be quoted	% to be quoted	Derived	1.288	0.017
15	BALL	25	MAN	8.5-9	50	IA & SA SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2	SCREWED AS PER IS:554 FEMALE PARALLEL	–	34.2	4	482	49	Derived	Derived	%To be quoted	%To be quoted		Derived	2.263	0.026
16	BALL	40	MAN	8.5-9	50	IA & SA SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2	SCREWED AS PER IS:554 PARALLEL FEMALE	–	48.8	4	18	6	Derived	Derived	%To be quoted	%To be quoted		Derived	0.204	0.007
17	BALL	50	MAN	8.5-9	50	IA & SA SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2	SCREWED AS PER IS:554 FEMALE PARALLEL	–	60.8	4.5	90	11	Derived	Derived	%To be quoted	%To be quoted		Derived	1.652	0.02
Value of X													TOTAL	4019	431	Derived	TO BE QUOTED				Derived	99.012	0.988

Special Condition of Rate Contract for Ball Valves

1. BHEL/PEM intends to enter into Rate Contract for the tendered different types of ball valves for a period of two years. The Rate Contract shall come into force from the date of issue of 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 years.
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-020-100-M004 & 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.

FRAMEWORK AGREEMENT OF BALL VALVES

List of projects considered:

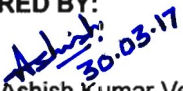
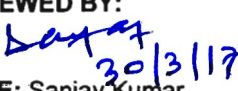
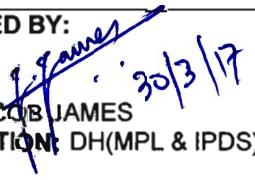
1. 1x800MW NORTH CHENNAI
2. 2x800MW UPPUR TPS
3. 5x800MW YADADRI TPP
4. 1x800MW VIJAYWADA TPP
5. 1x800MW KRISHNAPATTNAM TPP
6. 1x250MW ROURKELA PH-III
7. 2x500MW NEYVELI NEW TPP
8. 4x270MW BHADRADRI TPS
9. 1x525MW TUTICORIN TPP

The quantity as per attached Data sheet-A, is the approximate lump sum quantity to be ordered for the above mentioned projects.

	PRE - QUALIFYING REQUIREMENTS	DOCUMENT NO: PE-TS-020-100-M059
		REVISION NO: 00 DATE: 30.03.2017
		SHEET: 1 of 2

Standard document No.: PE-TS-999-000-M059

Enquiry No (To be filled by CMM):
Project: Framework Agreement
Package: BALL VALVES
<u>CRITERIA FOR EVALUATION (TECHNICAL / FINANCIAL):</u>
1. <u>Technical Pre-Qualifying Requirements:</u> 1.1 The bidder should have designed, in-house manufactured, tested, inspected and supplied Ball Valves (as mentioned below) for use in a power plant or for similar application. Category-A: Minimum size of 50NB with FCS/FSS/FAS with #800 or Gun metal with #PN 16.0 in a power plant/similar application. Category-B: Minimum size of 150NB with CCS/CSS/CAS with min. #150 in a power plant/similar application. <i>Supplier to fulfill the PQR of both the categories individually.</i> 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).

PREPARED BY:  NAME: Ashish Kumar Verma DESIGNATION: Sr. Engr. DEPT.: PS-PEM/ MPL	REVIEWED BY:  NAME: Sanjay Kumar DESIGNATION: DGM DEPT.: PS-PEM/ MPL	APPROVED BY:  NAME: JACOB JAMES DESIGNATION: DH(MPL & IPDS)
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PRE - QUALIFYING REQUIREMENTS

DOCUMENT NO: PE-TS-020-100-M059

REVISION NO: 00 DATE: 30.03.2017

SHEET: 2 of 2

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.

1.4 In addition to above, bidder should have the following facilities for different type & material of max. size as per BHEL requirement as mentioned in data sheet-A of technical specification:

- a) Capability of designing and manufacturing of the item(s).
- b) In-house testing facilities for carrying out tests as per relevant standards & Quality plan. In case, the in-house testing facilities are not available, then bidder shall furnish undertaking that test(s) will be carried out from govt. approved lab or test house recognized by reputed customers.

Bidder to submit supporting documents (Purchase order (s), Certificate indicating capacity and details/ undertaking of manufacturing & testing facilities) for point (a) & (b) above.

1.5 To establish business continuity, bidder is required to submit atleast two (2) Purchase order for any of the items as specified in data sheet-A of technical specification with min. size as specified below in last 3 (three) years prior to the date of bid submission defined by BHEL-PEM for each category.

Category-A: Minimum size of 15NB.

Category-B: Minimum size of 65NB.

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

PREPARED BY:

Ashish
30.03.17
NAME: Ashish Kumar Verma
DESIGNATION: Sr. Engr.
DEPT.: PS-PEM/ MPL

REVIEWED BY:

Sanjay
30/3/17
NAME: Sanjay Kumar
DESIGNATION: DGM
DEPT.: PS-PEM/ MPL

APPROVED BY:

J. James
30/3/17
NAME: JACOB JAMES
DESIGNATION: DH(MPL & IPDS)

FRAMEWORK AGREEMENT

TECHNICAL SPECIFICATION FOR BALL VALVES

**SPECIFICATION NO. PE-TS-020-100-M004
REV. NO.: 00**



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

	TECHNICAL SPECIFICATION BALL VALVES FRAMEWORK AGREEMENT		SPECIFICATION NO. PE-TS-020-100-M004
			SECTION: -
			REV. NO.: 00 DATE: 20.03.2017
			SHEET 1 OF 1

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S No.	SECTION	TITLE	NO. OF SHEETS
1.	SECTION-I	SPECIFIC TECHNICAL REQUIREMENTS	4
2.	SECTION-II	i) DATA SHEET-A	2
		ii) QUALITY PLAN	3
		iii) COMPLIANCE SHEET	1

	SPECIFICATION NO. PE-TS-020-100-M004	
	SECTION: -	
	REV. NO.: 00	DATE: 20.03.2017
	SHEET 1 OF 1	

SECTION-I **SPECIFIC TECHNICAL REQUIREMENTS**

	SPECIFIC TECHNICAL REQUIREMENTS BALL VALVES FRAMEWORK AGREEMENT		SPECIFICATION NO. PE-TS-020-100-M004
			SECTION: I
	REV. NO.: 00		DATE: 20.3.2017
	Sheet 1 of 4		

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 valves complete with all accessories shall be supplied as per Data sheet-A of Section-II. For detail refer the same. Each valve (quantity and other details specified in Data Sheet-A) shall be complete with the following accessories.
- 2.2 Commissioning spares, if any.
- 2.3 Set of special tools and tackles if required for the maintenance, erection etc. of the equipment supplied.
- 2.4 Mandatory spares as applicable depending upon the project requirement.

3. CODES AND STANDARDS

- 3.1 The design, materials, construction features, manufacture, inspection and testing of valves shall conform to the latest applicable codes and standards.
- 3.2 The valves covered under this specification shall be designed and tested as per BSEN ISO 17292 (replaces BS: 5351).
- 3.3 In case of any conflict between the above codes/ standards and this specification, the latter shall prevail and in case of any further conflict in the matter, the interpretation of the specification by the Engineer shall be final and binding.

4. DESIGN REQUIREMENTS

- 4.1 These valves shall be used for non-corrosive media like compressed air systems (i.e. service air, instrument air etc.) and shall be of non-fire safe design.
- 4.2 Valves shall be selected in the appropriate rating based on the pressure/temperature conditions and service media mentioned in Data sheet-A of Section-II.
- 4.3 Valves with screwed/ socket welding ends up to size of 50NB shall be in 3 piece/ 2 piece construction and valves of size 65NB and above with flanged/butt welding ends shall be short body design and in 3 piece/ 2 piece construction.

5. Materials

- 5.1 The materials of construction of main parts Ball valves shall be as specified in Data Sheet-A.
- 5.2 The materials of construction of the remaining parts shall be as per the relevant standard governing the valves. These materials shall be subjected to approval.
- 5.3 Material used in manufacture of valve shall be of tested quality.

6. CONSTRUCTION FEATURES

- 6.1 All valves with screwed ends shall have screwed female parallel pipe threads as per IS: 554/ASME B 1.20.1.
- 6.2 All valves with flanged ends shall have raised face flanges and drilling details as per ANSI B16.5.

	SPECIFIC TECHNICAL REQUIREMENTS BALL VALVES FRAMEWORK AGREEMENT		SPECIFICATION NO. PE-TS-020-100-M004
			SECTION: I
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	Sheet 2 of 4		

- 6.3 Valves with socket welded and butt welded ends shall have extended pieces. These extended pieces shall be connected through screwed ends on one side and the other end will be suited to match the pipe depending on the type of end details i.e. socket/butt welds ends. Socket ends and Butt weld ends shall be as per ASME B16.11 and ASME B16.25 respectively.
- 6.4 All valves up to 50mm NB shall be of reduced port and 65mm and above shall be of full bore.
- 6.5 Valves of size 200 NB & above shall be gear operated.
- 6.6 Body seats shall be of renewable type and shall be of moulded PTFE completely contained and shall provide leak tightness in either direction and be suitable for service temperatures.
- 6.7 All the valves shall be provided with integral stop on body limiting quarter turn operation.
- 6.8 All the ball valves shall be of tight shut off type and the lever shall be designed such that lever is parallel to the flow direction when the valve is in open position.
- 6.9 All the ball valves fitted with a steel lever shall be closed by turning the lever in the clockwise direction. The direction of closing the valve and "Shut" position shall be marked on the valves. The lever shall have plastic covering. For gear operated valves the hand wheel shall clearly marked Open & Shut with arrows indicating the direction of rotation which they refer. Valves shall be closed by rotating the hand wheel in the clock wise direction when looking at the face of the hand wheel.
- 6.10 Each lever / hand wheel of the valve shall be fitted with a circular/ rectangular nameplate of SS material indicating the purchaser's Valve Tag No. and service description.

7. MANUFACTURE OF VALVES

- 7.1 Valve castings shall be procured from foundries observing strict quality control and approved by reputed customers.
- 7.2 Particular care shall be taken to ensure that all foundry sand and loose material is properly removed from castings by fettling before the valve's manufacture is started.

8. QUALITY ASSURANCE, TESTING & INSPECTION

- 8.1 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.
- 8.2 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.
- 8.3 The charges for third party inspection (Lloyds, TUV or equivalent) for foreign bidders shall be included in the base price of the item by the bidder. This third party agency shall be approved by BHEL. Bidder to inform the same in the offer and mention the same in Quality Plan.

Note: There may be minor changes in quality plan depending on customer/consultant comments which will have to be accommodated by vendor at no extra cost. The minimum NDT/testing and inspection requirements for valve shall be as per the attached

	SPECIFIC TECHNICAL REQUIREMENTS BALL VALVES FRAMEWORK AGREEMENT		SPECIFICATION NO. PE-TS-020-100-M004
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	Sheet 3 of 4		

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.

- 8.4 Carbon steel valves shall be hydraulically tested for leak tightness before galvanizing the valve body and end pieces (pressure parts).
- 8.5 Hydrostatic/Air Tests
 - a. All the valves shall be tested hydraulically for strength and tightness of seats at the pressures as mentioned in BSEN ISO 17292.
 - b. No leakage shall be allowed for any size of the valve covered under this specification.
- 8.6 Dimensional and functional checks shall be carried out.

9. GALVANIZING REQUIREMENT (FOR CARBON STEEL):

Carbon steel valve bodies and all other carbon steel valve parts including handle lever & lever adopter shall be degreased, thoroughly cleaned, pickled & rinsed as specified in IS: 2629. Then all these carbon steel body valves & parts shall be hot dip galvanized as per IS: 2629. The minimum thickness of galvanizing shall be 50 minimum microns.

10. CLEANING, PROTECTION AND PACKING FOR DESPATCH:

- 10.1 Each valve 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.
- 10.2 The valve shall be dispatched in total assembled form.
- 10.3 Body ends shall be suitably sealed to protect them against damage during transit and storage.
- 10.4 Valves with screwed and socket welding ends shall be protected by means of polythene caps/ rubber and protectors to prevent damage of ends & also to avoid foreign material entering the valve while shipment & storage.
- 10.5 A thin sheet steel circular blanking plate of a diameter 6mm less than the bolt holes inner P.C.D. shall be firmly fixed to the flange faces by the application of adhesive after first ensuring that the flanges faces have been thoroughly degreased. A thin coat of adhesive shall be applied to the flange face and the blanking plate and then allowed to dry for 15-20 minutes. The coated face of the blanking plate should then be offered up to the face of the flange taking care that the plate is concentric with the flange. Firm pressure shall be applied to ensure intimate contact between plate and flange. A wooden blank should then be bolted to the flange using a minimum of 4 bolts.
- 10.6 Valve Tag Nos. shall be incorporated in all the dispatch documents.
- 10.7 Proper care shall be taken to avoid damage to the painted surface during transit.
- 10.8 All the valves 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.

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

	SPECIFIC TECHNICAL REQUIREMENTS BALL VALVES FRAMEWORK AGREEMENT		SPECIFICATION NO. PE-TS-020-100-M004	
			SECTION: I	
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			Sheet 4 of 4	

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 valve.
- 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.

14. EXCLUSIONS:

The following are excluded from the bidder's scope:

- a. Counter flanges and their nuts and bolts.
- b. Erection & Commissioning of equipment at site

	TECHNICAL SPECIFICATION BALL VALVES FRAMEWORK AGREEMENT	SPECIFICATION NO. PE-TS-020-100-M004	
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SECTION-II

- DATA SHEET – A
- QUALITY PLAN
- COMPLIANCE SHEET



DATA SHEET- A
BALL VALVES
FRAMEWORK AGREEMENT

SPECIFICATION NO.: PE-TS-020-100-M004

SECTION: II

REV. NO.: 00 DATE: 20.03.2017

SHEET 1 OF 2

1	2	3	4	5		6	7	8	9	10	11	12		13	14		
SL NO.	TYPE OF VALVE	SIZE mm (NB)	OPERATION	DESIGN		SERVICE	RATING, DESIGN & TESTING CODE	BODY MATERIAL	TRIM MATERIAL	END CONN	SPECIAL FEATURES	MATCHING PIPE OD x THK		MAIN VALVES QTY WITHOUT COMMISSIO NING SPARES NOS.	COMMISSIONING SPARES (SETS)		
				PRESSURE KG/CM2(G)	TEMP (DEG °C)							MM	MM		BODY SEAL	STEM WASHER	STEM SEAL
1	Ball	15	MAN	8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL. 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316	SOCKET WELDED AS PER ASME B 16.11	EXTENDED PIECE ON BOTH SIDES	21.3	2.80	998	100	100	100
2	Ball	25	MAN	8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL. 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316	SOCKET WELDED AS PER ASME B 16.11	EXTENDED PIECE ON BOTH SIDES	33.4	3.40	670	69	69	69
3	Ball	40	MAN	8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL. 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316	SOCKET WELDED AS PER ASME B 16.11	EXTENDED PIECE ON BOTH SIDES	48.3	3.68	56	7	7	7
4	Ball	50	MAN	8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL. 800 OF ISO 17292	FORGED STAINLESS STEEL AS PER ASTM A182 F304	SS 316	SOCKET WELDED AS PER ASME B 16.11	EXTENDED PIECE ON BOTH SIDES	60.3	3.91	230	24	24	24
5	Ball	80	MAN	8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL.150 OF ISO 17292	CAST STAINLESS STEEL AS PER ASTM A351 CF8M	SS 316	FLANGED AS PER ASME B 16.5 R/F	-	88.9	3.05	43	8	8	8
6	BALL	100	MAN	8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL.150 OF ISO 17292	CAST STAINLESS STEEL AS PER ASTM A351 CF8M	SS 316	FLANGED AS PER ASME B 16.5 R/F	-	114.3	3.05	4	2	2	2
7	Ball	150	MAN	8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL.150 OF ISO 17292	CAST STAINLESS STEEL AS PER ASTM A351 CF8M	SS 316	FLANGED AS PER ASME B 16.5 R/F	-	168.3	3.40	153	18	18	18
8	BALL	15	MAN	8.5-8.8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL.800 OF ISO 17292	FORGED CARBON STEEL AS PER ASTM A105	SS 316	SCREWED AS PER IS:554 FEMALE PARALLEL	HOT DIP GALVANIZED	21.8	3.20	273	26	26	26
9	BALL	25	MAN	8.5-8.8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL.800 OF ISO 17292	FORGED CARBON STEEL AS PER ASTM A105	SS 316	SCREWED AS PER IS:554 FEMALE PARALLEL	HOT DIP GALVANIZED	34.2	4.00	239	23	23	23
10	BALL	50	MAN	8.5-8.8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL.800 OF ISO 17292	FORGED CARBON STEEL AS PER ASTM A105	SS 316	SCREWED AS PER IS:554 FEMALE PARALLEL	HOT DIP GALVANIZED	60.8	4.50	67	7	7	7
11	BALL	80	MAN	8.5-8.8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL.150 OF ISO 17292	CAST CARBON STEEL AS PER ASTM A216 Gr. WCB	SS 316	FLANGED AS PER ASME B 16.5 R/F	HOT DIP GALVANIZED	89.5	4.80	14	6	6	6
12	BALL	100	MAN	8.5-8.8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL.150 OF ISO 17292	CAST CARBON STEEL AS PER ASTM A216 Gr. WCB	SS 316	FLANGED AS PER ASME B 16.5 R/F	HOT DIP GALVANIZED	115.0	5.40	27	8	8	8
13	BALL	150	MAN	8.5-8.8	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	CL.150 OF ISO 17292	CAST CARBON STEEL AS PER ASTM A216 Gr. WCB	SS 316	FLANGED AS PER ASME B 16.5 R/F	HOT DIP GALVANIZED	166.5	5.40	77	10	10	10
14	BALL	15	MAN	8.5-9	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2	SCREWED AS PER IS:554 FEMALE PARALLEL	-	21.8	3.20	578	57	57	57
15	BALL	25	MAN	8.5-9	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2	SCREWED AS PER IS:554 FEMALE PARALLEL	-	34.2	4.00	482	49	49	49
16	BALL	40	MAN	8.5-9	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2	SCREWED AS PER IS:554 FEMALE PARALLEL	-	48.8	4.00	18	6	6	6
17	BALL	50	MAN	8.5-9	50	INSTRUMENT AIR & SERVICE AIR SYSTEMS	PN 16 AS PER BS EN ISO 17292/ Manufacturer's Std. for GM BALL VALVES	GM AS PER IS 318 Gr.LTB2	GM AS PER IS 318 Gr.LTB2	SCREWED AS PER IS:554 FEMALE PARALLEL	-	60.8	4.50	90	11	11	11
TOTAL														4019	431	431	431

NOTES:-

1. IA - INSTRUMENT AIR, MAN - MANUAL, SA - SERVICE AIR
2. COMMISSIONING SPARES FOR BALL VALVES:- ONE SET CONSISTS OF BODY SEAL, STEM WASHER & STEM SEAL.
3. FOR MATERIAL OF CONSTRUCTION REFER SHEET 2 OF 2.
4. MAIN VALVE PRICES SHALL BE EXCLUSIVE OF COST OF COMMISSIONING SPARES PRICES.
5. BIDDER IS REQUIRED TO QUOTE UNIT PRICE OF EACH ITEM UNDER COMMISSIONING SPARES SEPARATELY & INDIVIDUALLY i.e. PRICES OF ALL COMMISSIONING SPARES SHALL NOT BE CLUBBED/ INCLUDED IN THE UNIT PRICE OF MAIN VALVES.

	DATA SHEET-A BALL VALVES FRAMEWORK AGREEMENT		SPECIFICATION NO. PE-TS-020-100-M004
			SECTION : II
			REV. NO.: 00 DATE: 20.03.2017
			Sheet 2 of 2

Materials of Construction

SL. NO.	PART NAME	MATERIAL (STAINLESS STEEL BODY)	MATERIAL (CARBON STEEL BODY)	MATERIAL (GUN METAL BODY)
1	BODY AND END PIECES	FORGED STAINLESS STEEL AS PER ASTM A 182 Gr. F304 (UPTO 50 NB) CAST STAINLESS STEEL AS PER ASTM A 351 Gr. CF8M (ABOVE 50 NB)	FORGED CARBON STEEL AS PER ASTM A 105 (UPTO 50 NB) (HOT DIP GALVANISED) CAST CARBON STEEL AS PER ASTM A 216 Gr. WCB (ABOVE 50 NB) (HOT DIP GALVANISED)	GUN METAL AS PER IS:318 Gr. LTB2
2	BALL, STEM AND GLAND	STAINLESS STEEL AS PER AISI 316 (BALL MIRROR FINISH)	STAINLESS STEEL AS PER AISI 316 (BALL MIRROR FINISH)	GUN METAL AS PER IS:318 Gr. LTB2, IS:320 HT2 (STEM)
3	SEAT RING	VIRGIN UNFILLED OIL FREE PTFE (Non-Asbestos Type)	VIRGIN UNFILLED OIL FREE PTFE (Non-Asbestos Type)	VIRGIN UNFILLED OIL FREE PTFE (Non-Asbestos Type)
4	BODY SEAL, STEM SEAL AND GLAND PACKING	VIRGIN UNFILLED OIL FREE PTFE (Non-Asbestos Type)	VIRGIN UNFILLED OIL FREE PTFE (Non-Asbestos Type)	VIRGIN UNFILLED OIL FREE PTFE (Non-Asbestos Type)
5	BODY STUD	AISI 316	AISI 316	AISI 316
6	BODY NUT	AISI 316	AISI 316	AISI 316
7	GLAND NUT	AISI 316	AISI 316	AISI 316
8	LEVER	AISI 316 WITH PLASTIC SLEEVE GRIP	CARBON STEEL (HOT DIP GALVANISED) WITH PLASTIC SLEEVE GRIP	CARBON STEEL (HOT DIP GALVANISED) WITH PLASTIC SLEEVE GRIP
9	LEVER ADOPTER	AISI 316	CARBON STEEL (HOT DIP GALVANISED)	CARBON STEEL (HOT DIP GALVANISED)
10	STOPPER PIN	AISI 316	AISI 316	AISI 316
11	STEM WASHERS	SPRING STEEL	SPRING STEEL	SPRING STEEL
12	NAME PLATE (FOR VALVE TAG NO.)	SS 316 (2 MM THICK)	SS 316 (2 MM THICK)	SS 316 (2 MM THICK)
13	PAINTING	NO PAINTING NEEDS TO BE DONE AS ALL PARTS OF STAINLESS STEEL	NO PAINTING NEEDS TO BE DONE AS ALL PARTS OF THE VALVES ARE GALVANISED	NO PAINTING REQUIRED

	QUALITY PLAN		CUSTOMER : LATER			PROJECT: FRAMEWORK AGREEMENT			SPEC. NO :PE-TS-020-100-M004			
			BIDDER/VENDOR :			QP NO:PE-QP-020-100-M006 REV 0 DT. 20.03.2017			SPEC. TITLE BALL VALVE			
	SHEET 1 OF 3		SYSTEM : L. P. VALVES			ITEM: GM BALL VALVES (SIZE 15 TO 50 NB/ PN16) , FSS/ FCS BALL VALVES (SIZE 15 TO 50 NB/ CLASS 800) & CSS/ CCS (SIZE 65 TO 150 / CLASS 150)			SECTION II			
S.NO.	COMPONENT/ OPERATION	CHARACTERISTICS CHECKED	CATE- GORY	TYPE/METHOD OF CHECK	EXTENT OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY			REMARKS
									P	W	V	

1.	MATERIAL											
1.1	BODY, END PIECES BALL, SPIDNLE, GLAND, LEVER, FASTNERS	1. PHYSICAL, CHEMICAL PROPS.	MA	PHYSICAL,CHEM, TESTING	1/HEAT	APPD. DRG./ TECH.SPEC.	APPD. DRG./ TECH.SPEC.	T.C.	3	2	1	CORELATION REQD. FOR BODY & END PIECES
		2. HEAT TREATMENT	CR	REVIEW OF H.T. RECORDS	100%	-DO-	-DO-	H.T. INTERNAL INSPN. RECORDS	3	2	1	
		3. SURFACE DEFECTS	MA	VISUAL	100%	MSS-SP-55	FREE FROM DEFECTS	INSPN. REPORT	3	2	1	
1.2	BODY,END PIECES	1. SURFACE DEFECTS	CR	PENTRANT TEST	100%	ASTME 165	ANSI B 16.34	TEST REPORT	3/2	2	1	Applicable only for SS castings
2.0	IN PROCESS INSPECTION											
2.1	MACHINING OF ALL COMPONENTS	1. DIMENSIONS	MA	MEASUREMENT	100%	MFG. DRG.	MFG. DRG.	LOG BOOK	3/2	-	-	
		2. SURFACE FINISH	MA	VISUAL	100%	MFG. DRG.	MFG. DRG.	LOG BOOK	3/2	-	-	
		3. HARDNESS (FOR BALL AND SPIDNLE)	MA	HARDNESS TESTING	100%	APPD. DRG./ TECH.SPEC.	APPD. DRG./ TECH.SPEC.	T.C.	3/2	-	2,1	
		4. SURFACE DEFECTS	CR	PENTRANT TEST	100%	ASTME 165	ANSI B16.34	T.C.	3/2	2	1	FOR BALL, SPINDLE SEATS & MACHINED SURFACES
3.0	BEFORE GALVANISING - SHELL TEST FOR PRESSURE PARTS											
3.1	BODY,END PIECES (PRESSURE PARTS)	LEAK TIGHTNESS	CR	HYDRAULIC TEST	100%	APPD. DRG.	NO LEAKAGE	T.C.	2	2	1	
4.0	GALVANIZING OF CARBON STEEL BODY , END PIECES	1. FREEDOM FROM SURFACE DEFECTS	MA	VISUAL	100%	IS:2629	IS:2629	INSPN REPORT	3/2	2	1	

BHEL	PARTICULARS	BIDDER/VENDOR	
	NAME		
	SIGNATURE		
	DATE		
BIDDER'S/ VENDOR'S COMPANY SEAL			

		QUALITY PLAN		CUSTOMER : LATER				PROJECT: FRAMEWORK AGREEMENT				SPEC. NO :PE-TS-020-100-M004	
				BIDDER/VENDOR :				QP NO:PE-QP-020-100-M006		REV 0 DT. 20.03.2017		SPEC. TITLE BALL VALVE	
		SHEET 2 OF 3		SYSTEM : L. P. VALVES				ITEM: GM BALL VALVES (SIZE 15 TO 50 NB/ PN16) , FSS/ FCS BALL VALVES (SIZE 15 TO 50 NB/ CLASS 800) & CSS/ CCS (SIZE 65 TO 150 / CLASS 150)				SECTION II	
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	

	AND ALL OTHER CARBON STEEL VALVE PARTS	2. INIFORMITY IN THICKNESS	MA	THICKNESS	VALVE BODY AT RANDOM	IS:2629	IS:2629	INSPN REPORT	3/2	2	1	THICKNESS 50 MIN. MICRONS TO BE CHECKED WITH ELCOMETER
		3. ADHESION	MA	KNIFE TEST	-DO-	IS:2629	IS:2629	INSPN REPORT	3/2	2	1	
5.0	<u>ASSEMBLY OF ALL VALVE</u>											
5.1	BALL AND SEAT	1. MIRROR FINISH(BALL)	CR	BUFFING/ GRINDING/ MACHINING	100%	THE SURFACE SHALL BE SMOOTH AND SHALL HAVE UNIFORM CONTACT WITH SOFT SEAT		LOG BOOK	3/2	-	2,1	
6.0	<u>FINAL TESTING</u> ASSEMBLY	1. DIMENSIONS	MA	MEASUREMENT	100%	APPD. DRG.	APPD. DRG.	INSPN. REPORT	3/2	2, 1	-	#
6.1		2.OPENING/CLOSING	MA	OPERATION	100%	SMOOTH OPERATION OF VALVE		-DO-	3/2	2, 1	-	#
6.2		TESTING										
6.2.1		BODY	CR	HYDRAULIC TEST	100%	APPD. DRG.	NO LEAKAGE	T.C.	3/2	2, 1	-	#
6.2.2		SEAT	CR	-DO-	100%	-DO-	-DO-	-DO-	3/2	2, 1		#
		2. LEAK TIGHTNESS	CR	PNEUMATIC TEST	100%	-DO-	-DO-	-DO-	3/2	2, 1	-	#
5.0	PACKING IN WOODEN CASES AND MARKING	AS PER BHEL TECH. SPEC.	MA	VISUAL	100%	TECHNICAL SPEC.	TECHNICAL SPEC.	SOFT COPY OF PHOTOGRA PHS	3/2	2	1	PHOTOGRAPHS OF WOODEN CASES HAVING DULY PACKED VALVES TO BE FURNISHED TO BHEL-PEM FOR VERIFICATION TO OBTAIN MDCC.

BHEL	PARTICULARS	BIDDER/VENDOR	
	NAME		
	SIGNATURE		
	DATE		
			BIDDER'S/ VENDOR'S COMPANY SEAL

	QUALITY PLAN		CUSTOMER : LATER			PROJECT: FRAMEWORK AGREEMENT			SPEC. NO :PE-TS-020-100-M004	
			BIDDER/VENDOR :			QP NO:PE-QP-020-100-M006 REV 0 DT. 20.03.2017			SPEC. TITLE BALL VALVE	
	SHEET 3 OF 3		SYSTEM : L. P. VALVES			ITEM: GM BALL VALVES (SIZE 15 TO 50 NB/ PN16) , FSS/ FCS BALL VALVES (SIZE 15 TO 50 NB/ CLASS 800) & CSS/ CCS (SIZE 65 TO 150 / CLASS 150)			SECTION II	
S.NO.	COMPONENT/ OPERATION	CHARACTERISTICS CHECKED	CATE- GORY	TYPE/METHOD OF CHECK	EXTENT OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORD	AGENCY	REMARKS
									P W V	

ABBREVIATIONS

CR = CRITICAL CHARACTERISTIC	P = PERFORMED BY	W = WITNESSED BY	V = VERIFIED BY
MA =MAJOR CHARACTERISTIC	1 = PURCHASER (BHEL)	2 = VENDOR	3 = SUB VENDOR OF THE VENDOR

WITNESS 'W' SHALL BE 100% BY VENDOR AND 10% BY BHEL/ CUSTOMER AT RANDOM FOR EACH SIZE, TYPE & RATING (OR) MIN. 02 NOS., WHICHEVER IS HIGHER.

BHEL	PARTICULARS	BIDDER/VENDOR	
	NAME		
	SIGNATURE		
	DATE		
			BIDDER'S/ VENDOR'S COMPANY SEAL

	COMPLIANCE SHEET BALL VALVES FRAMEWORK AGREEMENT		SPECIFICATION NO. PE-TS-020-100-M004	
			SECTION : II	
	REV. NO.: 00		DATE: 20.03.2017	
	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

ANNEXURE - VI

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
TECHNICAL DEVIATIONS									
COMMERCIAL DEVIATIONS									
PARTICULARS OF BIDDERS/ AUTHORISED REPRESENTATIVE									
NAME				DESIGNATIONS			SIGN & DATE		
NOTES:									
1. 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.									
2. For directly dispatchable items, cost of withdrawal of deviation will be applicable on the basic price including taxes, duties & freight.									
3. All the bidders have to list out all their Technical & Commercial Deviations (if any) in detail in the above format.									
4. Any deviation not mentioned above and shown separately or found hidden in offer, will not be taken cognizance of.									
5. 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.									
6. Bidder shall furnish price copy of above format along with price bid.									
7. The final decision of acceptance/ rejection of the deviations quoted by the bidder shall be at discretion of the Purchaser.									
8. Bidders to note that any deviation (technical/commercial) not listed in above and asked after Part-I opening shall not be considered.									
9. 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.									
10. Any deviation mentioned in priced copy of this format, but not mentioned in the un-priced copy, shall not be accepted.									
11. 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.									
12. 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.									
13. In case nature of cost of withdrawal (positive/negative) is not specified it shall be assumed as positive.									
14. In case of discrepancy in the nature of impact (positive/ negative), positive will be considered for evaluation and negative for ordering.									

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.