



E2400030_01

Bharat Heavy Electricals Limited

(A Govt of India Undertaking)
Materials Management Department
Jhansi 284120
Tel: 0510-2412317,

e-mail: pk.priyadarshi@bhel.in; shams@bhel.in

Tender Enquiry No: E2400030

**TENDER DOCUMENT FOR RATE CONTRACT OF PRESSED STEEL RADIATORS
ASSY OF CR STEEL SHEET FOR POWER TRANSFORMER ON FINISH BASIS**

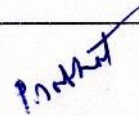
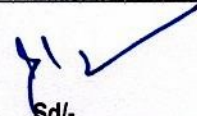
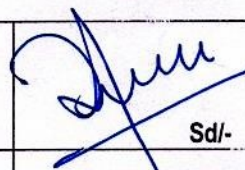
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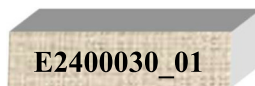
NOTE:- Tender Doc (Rev 01) is issued to :-

- Change the JPC rate as on date (20.04.21). in Cl. 10 of Annexure -IV
- Change the Packing drg. From 24994300023 to 24994350015 for 4/3 nos. of Radiators. and drg 24994300034 for 2 nos. of Radiators in cl 6 of Annexure-III

Packing instruction:-

Packing of 04/03 nos. of Radiators shall be done as per Packing drg. No. 24994350015 in vertical position.
Packing of 02 nos. of Radiators shall be done as per Packing drg. No. 24994300034 in horizontal position.

 Sd/-	 Sd/-	 Sd/-
Prepared by	Checked by	Approved by
P.K.Priyadarshi Sr P.O (MM)	S.Zaman, DGM (MM)	Alok Bhadkamkar, AGM (MM-Trfr & Power Trfr Planning)



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Quantities covered by the Rate Contract.

Annexure - I

Two years requirement for Pressed Steel Radiators assy. shall be as under:-

Sl. No.	Description	Qty. (Nos.)
1	Radiator 5 flute to 24 flute Pressed steel (rippled) radiators to 1200 mm – 3500 mm valve centre & Maxm. upto 32 elements in accordance with BHEL Drg no. 04994300010 - Rev. 9F / 04994300007 Rev 19B	4300

The above-cited requirement of Radiators Assy. is tentative & overall quantity may vary upto **+/-30%** tolerance depending upon BHEL's order book position and production requirement. Also, depending on actual orders to be executed during the currency of the rate contract and this shall be controlled by the total value of the rate contract on the specified vendor.

Total value of R/C will be +/-30% for the quantity detailed above.

Name & Signature of Authorized Representative of Bidder

.....

Name of Company.....

Date:

(Seal of the Company).

Seal and sign of Bidder

Annexure - IA

PQR for 421691257 PI

Annexure - III

Pre-Qualifying Requirement for Procurement of Transformer Radiator- E.....

Sl. No.	REQUIREMENT	Bidder's Response										
1	Bidders should be the Manufacturer of Transformer Radiator. Bidders to provide Self Undertaking on their Letter Head that they are capable of executing the job under captioned enquiry.	☐ Yes ☐ Submitted										
2A	Annual average financial turnover in past three financial years ending on 31 st March of previous financial year, where in bidder(s) attach copy of balance sheet including profit and loss statement of last three financial years, audited by CA. In the case of balance sheet of last financial year is not yet audited, the un-audited balance sheet of last financial can be enclosed along with certificate of CA. <table border="1"> <thead> <tr> <th>FY→</th> <th>2017-18</th> <th>2018-19</th> <th>2019-20</th> <th>Average Turnover</th> </tr> </thead> <tbody> <tr> <td>T/O →</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> For qualifying, the average financial Turnover should be minimum Rs10500000 for non- MSEs and Rs4500000 for MSEs.	FY→	2017-18	2018-19	2019-20	Average Turnover	T/O →					☐ Yes ☐ Submitted
FY→	2017-18	2018-19	2019-20	Average Turnover								
T/O →												
2B	Net Worth shall be positive.	☐ Yes										

[Handwritten signatures and dates]
30.04.2020
30/04
30/04

Seal and sign of Bidder

PQR for 421691257 PI

3

EXPERIENCE:-

Bidders should have experience of having supplied "Transformer Radiator" (henceforth called "Goods") Generation / Transmission Companies/ Power Transformer Users or Transformer Manufacturers.

The Customer should be any of the following in the last three years.

1. PSU- State/ Central Govt.
2. Government - State/ Central
3. BHEL /ABB / Siemens / Mitsubishi Electric / Toshiba / TBEA / Alstom / Crompton Greaves / Bharat Bijlee / TELK / EMCO / T & R / Voltamp Trfr / Imp Power / Vijay Electrical / Technical Associates / Schneider Electric / Andrew Yule / Skipper Ltd./ High Volt.

The bidders have to provide minimum two orders executed in the last three years, supplied one month prior to date of issue of tender. Orders.

Minimum Quantum- Should have supplied

(a) for non-MSEs

- (1) minimum 430 Nos/Sets/ etc of "Goods" OR
- (2) Goods of worth Rs 50 Lakhs.

(b) for MSEs

- (1) minimum 301 Nos/Sets/ etc of "Goods" OR
- (2) Goods of worth Rs 35 Lakhs.

The bidders have to provide minimum two orders executed in the last three years, supplied one month prior to date of issue of tender.

Vendor to submit details of executed PO.

Customer Name	Order No. & Date	Qty. supplied in UM	Order, Tax Invoice No., TC No. & Date	Remark, if any

As an evidence of the above information, the bidder to attach the documentary proof as below: -

Supplies made to	Documentary Proof to be attached
BHEL, Unit(s)	Purchase Order Copies to be submitted
Other PSUs / Govt Undertakings	1) Purchase Order issued by Customer 2) Test certificates of any one lot to be submitted. 3) Copy of Performance Certificate or Tax Invoices.
Private Sector	1) Purchase Order issued by Customer 2) Test certificates of any one lot to be submitted. 3) Copy of Tax Invoices.

☐ Yes

PI tick ✓ as applicable

☐ BHEL Units

☐ Other PSUs / Govt Undertakings

☐ Private Sector

☐ Submitted

PI tick ✓ as applicable

☐ BHEL Units

☐ Other PSUs / Govt Undertakings

☐ Private Sector

PQR for 421691257 PI

4	New vendors who are not registered with BHEL, Jhansi should submit duly filled "Supplier Registration Form (SRF)" along with the requested documents. The SRF is available on line on our website www.bhel.com.	☐ Document Submitted
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- We agree that our bid is liable to be rejected in case (a) the relevant information is not filled, (b) documentation is incomplete, (c) there are false declarations, and (d) if we do not meet the PQR.
- Criteria at Sl. No. 4 is desirable. Other are mandatory.
- Supporting documents for the details filled above have been submitted.

(Signature of the Supplier with Name, Designation & Seal)

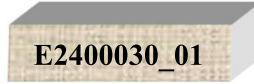
[Signature]
30.04.2020

[Signature]

(एन.एन.एन. रामन)
(N. N. RAMAN)
अपर महाप्रबन्धक (टी.आर.ई.)
Addl. General Manager (TRE)
बी.एच.ई.एल., जहानसी
B.H.E.L., JHANSI

[Signature]
30.04.

Seal and sign of Bidder



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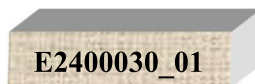
Annexure - II

INSTRUCTIONS FOR SUBMISSION OF TENDER

1. The offers against the enquiry shall be submitted in two parts. The first part called Techno-commercial bid i.e. Part - A shall be un-priced and will be submitted in line with Annexure I to IX. The second part called Price-Bid i.e. Part-B shall be submitted in the format given in Annexure-X.
2. The vendors shall submit Part-A and Part-B of their bids in two different sealed envelopes duly super-scribing Enquiry No. and Part No. of the bid. These two parts of the bid shall be kept together in a third envelope super-scribing Enquiry No., due date and time of opening as indicated in the tender document.
3. Part-A of the bid alone shall be opened on the due date in presence of the tenderers in the first instance. Part B of the bid shall be opened only for such of the tenderers whose Techno-Commercial offers are found acceptable by BHEL. Tenderers must carefully go through all the instructions and conditions before filling in Part B of the bid. Any type of mistake in submission of the bids will make the tender liable for rejection.
4. The bids shall be submitted only in the format given in the tender documents. It may be noted that each page of the tender document has been signed by BHEL. While submitting the bid, these every pages are to be used in original. The tenderer is also required to sign and stamp each and every page of the tender document clearly bring out deviations, if any.
5. Tenders not complying with the above and other requirements of the tender shall be liable for rejection.
6. It must be clearly understood that the order concluded pursuant to this tender enquiry shall be governed by the General terms & conditions JHS 2055A rev 03 of the contract which are available on our website
7. No over-writing in any of the Annexures of Part-A or Part-B is permitted. Corrections in the bid should normally be avoided. However, when these become essential, bidder shall score out the incorrect information and put the correct information duly endorsing each correction with his signatures.

Seal and sign of Bidder

Registered Office: BHEL House, Siri Fort, New Delhi 110049



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Annexure - II

We confirm above instructions have been fully understood and the price bid has been submitted exactly in line with format at calculation sheet without addition of any other terms & conditions and if the price bid is found to be conditional (e.g. minimum order, quantity, slab rate, discount for quantity, different terms & pay etc.), BHEL has full right not to accept our offer.

Name & Signature of Authorized Rep. Of Bidder

.....

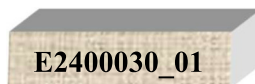
Mob No,:

Name of Company.....

Date:

(Seal of the Company)

Seal and sign of Bidder



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Annexure - III

SALIENT TECHNICAL REQUIREMENTS

1. SCOPE OF WORK:

The scope of work covered in this enquiry is supply of pressed steel radiators assembly of 1.00 and 1.2 mm CRCA (Cold Rolled Continuously annealed) sheet of grade D of IS:513 & 513A and generally as per BHEL Drawings for radiator assembly & Specification on finish basis.

The radiators are to be sand blasted as per IS:6501-1 / grade SA 2.5 of ISO 8501 before painting.

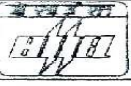
For welding radiating elements, seam welding conforming to IS:1261 shall be employed.

Individual Purchase Order shall be placed to Vendors whom this Frame Work agreement is finalized. Material shall be dispatched directly to BHEL Jhansi/ respective Sites as mentioned in Purchase Order.

Seal and sign of Bidder

Registered Office: BHEL House, Siri Fort, New Delhi 110049

Annexure - III

TR 15077R		PRODUCT STANDARD	TR 15077R
		TRANSFORMER	PAGE 1 OF 2
TITLE Salient Technical Requirements for Radiators: 1.0 SCOPE OF WORK: The scope of work covered in this enquiry is supply of pressed steel radiators assembly of 1.00 and 1.25 mm CRCA (Cold rolled continuously annealed) sheet conforming to grade D of IS: 513 & IS 513A and generally as per BHEL Drawings for radiator assembly & Specification on finish basis. The radiators are to be sand blasted as per IS: 6501-1/ grade SA 2.5 of ISO 8501 before painting/ galvanizing. For welding radiating elements, seam welding conforming to IS: 1261 shall be employed. 2.0 Surface preparation & Painting: 2.1: Cleaning: External surface including weld & flux to be thoroughly cleaned, followed by a coat of chemical agent for derusting, degreasing and phosphating, leaving the surface uniform with a micro-crystalline coat of iron phosphate. Internal surface to be thoroughly cleaned, followed by a coat of chemical agent for derusting, degreasing and phosphating, leaving the surface uniform with a micro-crystalline coat of iron phosphate. To ensure the proper surface preparation, peel-off test will be conducted on the painted surface. 2.2: Painting: After cleaning, internal surface shall be flush coated with phenolic based varnish conforming to class A of IS: 350 and compatible with transformer oil at a temp of 105 deg C, thinned to a viscosity level allowing for 15 sec flow in a FORD-4 Cup Viscometer. External Surface: As required in the PO (Thickness of paint shall be from 70 to 80 microns). 3.0 COOLING SYSTEM: The radiating elements (Cooling fins) shall be 55 mm apart. The start and end-up of the flutes in an element shall be atleast 65 mm from top and 65 mm before bottom respectively. Weld should be leak proof all around. 4.0 TESTING: 4.1: Visual Check 4.2: Dimensional Check 4.2(a): Diagonality check			
REVISIONS ① VINOD J.	APPROVED BY S.N. BARIK D.K. ARAND R.K. MOHAPATRA	PREP. ISSUED DATE 7-3-2013	DATE 7-3-2013

Seal and sign of Bidder



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Annexure - III

Seal and sign of Bidder

Annexure - IV

COMMERCIAL TERMS & CONDITIONS

1. Rates to be quoted for black condition in Rs / kg basis .
2. **PRICING TERMS** - Rate should be quoted on **Ex-Works** basis. Radiators to be dispatched to the site directly (MTS basis) or to be called in BHEL, Jhansi.

- (A) The freight & insurance charges shall be on bidder's account. However BHEL will pay the Freight charges (including insurance) as per BHEL Freight Rate contract. BHEL freight Rate Contract is on Rs/MT-KM, and the rate is updated every month based on the Diesel prices. Present BHEL Freight Rates (as on 30.09.20.) are as below

Sl No.	Transport Type	Maximum Radiators per vehicle	Rate Rs / MT-KM
1	19 Feet Truck (7MT)	4	5.30
2	22 Feet Truck (15MT)	8	3.99
3	40 Feet Trailer (22MT)	12	3.75

- (B) The distance for freight calculation shall be calculated based on minimum distance as per Google MAP. In case of any discrepancy, the distance given by BHEL Central Dispatch Cell shall be final.
- (C) FTL load (i.e. Full Truck/Trailer Loading capacity) weight shall be used for Calculation purpose for each LR.
- (D) Vendors can dispatch a radiators lot through any combination of vehicles but **Freight Charges will be paid for the most economical combination of vehicles required for transporting a lot.** BHEL freight rate applicable as on date of issue of LR shall be taken for calculation of freight.

Sample for selection of Most Economical Combination of vehicles for different lot size

Lot Size (Nos)	Vehicles Required		
	22 MT, 40 Feet, Trailer	15 MT, 22 Feet Truck	7 MT, 19 Feet Truck
40	3	0	1
32	2	1	0
30	2	1	0
20	1	1	0
Less than 5	0	0	1

3. PAINTING CHARGES

Seal and sign of Bidder

Registered Office: BHEL House, Siri Fort, New Delhi 110049

(A) **Extra charges** for paint on basic rates shall be given by BHEL as fixed %age of basic rates (in black condition) as specified below. :-

SI No.	Paint Type	%
(i)	Synthetic Enamel Painting :	Painting shall be done as per TR 10005P SI. No. 7 Extra charges as %age of basic rates shall be @8.16%
(ii)	Epoxy Painting	Painting shall be done as per TR 10005P SI no. 15 Extra charges as %age of basic rates shall be @11.31%
(iii)	Poly urethane painting	Painting shall be done as per TR 10005P SI no. 20 or 22 Extra charges as %age of basic rates shall be @13.26%
(iv)	Extra Thickness of paint	In a few cases the radiators painting film thickness required is over and above minimum 100 /120 microns. The rates in %age of basic radiator cost for every 30 micron increase in paint thickness over & above the above specified thickness the charges shall be paid extra as under:- a. Synthetic painting @3.07% b. Epoxy painting @4.25% c. Poly urethane painting @6.12%
(v)	Export Packing	Sea worthy packing the charges shall be @7.02% .

(B) Inside painting of radiators shall be as SI no. 2.2 of TR 15077R

TR 10005 P		Krit. (Y.M.P. 1310)		उत्पाद मानक परिणामित्र		PRODUCT STANDARD TRANSFORMER		TR 10005 P																																																																																											
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4	6. TRANS TANKS UP TO 400 KV CLASS REACTOR TANKS UP TO 400 KV CLASS SPARE COIL TANK CONSERVATOR RELIEF VENT (GAD) HEADERS CABLE BOX COMPOUNDED FILLED WITH THERMIST	IN SIDE	OIL RESISTANT FULL GLOSSY EPOXY WHITE PAINT. ANTI CORROSIVE PRIMER PAINT. HIGH QUALITY FULL GLOSSY OUTDOOR FINISHING PAINT. (FOR SHADE REFER N.O.)	2	SPRAY OR BRUSH	AA 56106	40 Min	TR 10211P																																																																																											
		OUT SIDE		2	SPRAY OR BRUSH	AA 56106	40 Min																																																																																												
Rev. 13C दिनांक: 13-2-18 Rev. 18B दिनांक: 26/11/16		NOTE TO D.O SL. NO. 4 ADDED. A.K.G.		विवरण DISTRIBUTION TR: TRM/MTM FR: TTD QC: TCR/QV/PCB BHANSI		मं. स्वीकृत किया : APPROVED: sd: SRR, sd: SNA जारी किया : ISSUED टी.ए.ई. मानक. TR: STD. तैयार किया : PREP.D. SD: SJ		दिनांक : DATE 23-03-1986																																																																																											

TR 10005 P

FORM: 2 (11/8)



उद्योग कर्मक
परिभाषित
शाय / अमि. निर्देश

PRODUCT STANDARD
TRANSFORMER

SHOP / ENGG. INSTRUCTIONS

TR 10005 P

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used directly or its identity in any way was detrimental to the interest of the company
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used directly or indirectly in any way detrimental to the interest of the company

1	2	3	4	5	6	7	8	9	10
SR NO	PARTS	SUR. FACE	PAINT	NO. OF COATS	HOW APPLIED	PART SPEC	CITY PAINT FILM TH. MICRON	PROCESS SPEC	REMARKS
5	PIPE WORK	IN SIDE	AS IN SL NO. 4		FLOODING	BP 56179	40 Min.	TR10219P	
		OUT SIDE	AS IN SL NO. 4	2	SPRAY OR BRUSH	AA 56101	40 Min.		
				2	SPRAY OR BRUSH	AA 56126	40 Min. TOTAL DFT. 80 Min.		
6	ROLLER ASSEMBLY, A. FRAMES, BREATHERS, STEEL PARTS, OUTSIDE TRANSFORMER TANK	OUT SIDE	AS IN SL NO. 4	2	SPRAY OR BRUSH	AA 56101	40 Min.	TR10219P	
				3	SPRAY OR BRUSH	AA 56126	40 Min. TOTAL DFT. 80 Min.		
7	RADIATORS	OUT SIDE	1. SELF ETCH PRIMER 2. ANTI CORROSIVE PRIMER 3. HIGH QUALITY FULL GLOSSY FINISHING PAINT	1	SPRAY OR BRUSH	AA 56103	6 Min.	TR10219P	
				2	FLOODING OR SPRAY OR BRUSH	AA 56101	40 Min.		
						56126	40 Min. TOTAL DFT. 80 Min.		
8	ALL BLANKING DURING SHIPPING	IN SIDE	AS IN SL NO. 4	2	SPRAY OR BRUSH	BP 56179	40 Min.	TR10219P	
		OUT SIDE	POST OFFICE RED FINISHING PAINT	2	SPRAY OR BRUSH	AA 56101	40 Min.		
						56126	40 Min. TOTAL DFT. 80 Min.		
9	INSTRUMENT TRANSFORMER CTOVT TANK	INSIDE EXCEPT SECONDARY TERMINAL BOX	AS IN SL NO. 4	2	SPRAY OR BRUSH	BP 56179	40 Min.	TR10219P	
		INSIDE SECONDARY TERMINAL BOX	ANTI CORROSIVE PRIMER PAINT. KNOWN YELLOWING FULL GLOSSY WHITE PAINT	2	SPRAY OR BRUSH	AA 56101	40 Min.		
		OUT SIDE	AS IN SL NO. 4	2	SPRAY OR BRUSH	AA 56101	40 Min.		
						56126	40 Min. TOTAL DFT. 80 Min.		

पुनः Rev. 18C

दिनांक Date 13/2/18

पुनः Rev. 18B

दिनांक 26/11/16

विभाग DISTRIBUTION	मं.	परीक्षण किया : APPROVED : sd/SRL, sd/SNA
TRE/TRX/WTM TRX/WTG QC-TCB/QA-TCB H/ENSH		जारी किया : ISSUED : वैश्वकर्ष कर्मक / TRE STD. तैयार किया : PREP.D. : S/D/SJ

संख्या : 20-03-1986

FORM NO. 2038		उत्पाद मानक परिणामित्र शॉप / अंमि. निर्देश		PRODUCT STANDARD TRANSFORMER SHOP / ENGG. INSTRUCTIONS		TR 10005 P	
6 पृष्ठों में 3		PAGE 3 OF 6					
1	2	3	4	5	6	7	8
SR NO	PARTS	SURFACE	PAINT	NO. OF COATS	HOW APPLIED	PAINT SPEC.	DRY PAINT FILM THK. MICRON
10	MARSHALLING ROOM KIOSK	IN SIDE	ANTICORROSIVE PRIMER PAINT + NON YELLOWING GLOSSY WHITE PAINT	2	SPRAY OR BRUSH	AA56101 AA56127	40 Min 40 Min 80 Min
11	MARSHALLING BOX / KIOSK AIR FILLED CABLE BOX	OUT SIDE	SAME AS IN SL NO 4	2	SPRAY OR BRUSH	AA56101 AA56126	40 Min 40 Min 80 Min
12	PANELS MOUNTED INSIDE MARSHALLING KIOSK	IN SIDE	ANTICORROSIVE PRIMER PAINT + WHITE ANTI CONDENSATION PAINT	2	SPRAY OR BRUSH	AA56101 AA56126	40 Min 40 Min 80 Min
13	MARSHALLING BOX KIOSK PARTS INCLUDING PANELS EXPOSED TO CHLORINE CONTAMINATED ATMOSPHERE	OUT SIDE	SAME AS IN SL NO 4	2	SPRAY OR BRUSH	AA56101 AA56126	40 Min 40 Min 80 Min
14	NON FERROUS PARTS EXPOSED TO CHLORINE CONTAMINATED ATMOSPHERE	OUT SIDE	1. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 2. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 3. SELF ETCH PRIMER 4. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 5. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 6. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 7. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 8. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 9. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 10. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 11. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 12. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 13. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 14. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 15. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 16. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 17. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 18. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 19. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 20. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 21. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 22. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 23. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 24. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 25. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 26. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 27. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 28. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 29. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 30. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 31. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 32. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 33. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 34. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 35. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 36. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 37. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 38. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 39. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 40. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 41. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 42. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 43. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 44. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 45. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 46. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 47. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 48. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 49. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 50. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 51. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 52. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 53. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 54. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 55. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 56. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 57. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 58. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 59. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 60. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 61. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 62. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 63. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 64. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 65. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 66. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 67. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 68. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 69. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 70. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 71. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 72. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 73. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 74. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 75. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 76. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 77. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 78. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 79. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 80. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 81. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 82. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 83. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 84. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 85. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 86. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 87. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 88. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 89. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 90. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 91. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 92. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 93. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 94. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 95. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 96. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 97. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 98. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT 99. CHEMICAL & THERMAL RESISTANT EPOXY PAINT 100. CHEMICAL & THERMAL RESISTANT EPOXY PRIMER PAINT	50 Min 50 Min 100 Min			
15	CONDENSATION (EPOXY PAINTING)	OUT SIDE	SAME AS IN SL NO 4	2	SPRAY OR BRUSH	AA56101 AA56126	40 Min 40 Min 80 Min

5.

TR 10005 P		उत्पाद मानक परिणामित्र शॉप / अंमि. निर्देश		PRODUCT STANDARD TRANSFORMER SHOP / ENGG. INSTRUCTIONS		TR 10005 P													
Form no. 2038						6 पृष्ठों में 4 PAGE 4 OF 6													
1	SR NO	2	PARTS	3	SUR. FACE	4	PAINT	5	NO. OF COATS	6	HOW APPLIED	7	PAINT SPEC	8	DRY PAINT FILM THK MICRON	9	PROCESS SPEC	10	REMARKS
16		TRANSFORMER TOP TANK, BOTTOM TANK, TURRETS, INSPECTIONS COVERS, CONSERVATOR HEADERS	IN SIDE		CHEMICAL & THERMAL RESISTANT EPOXY WHITE SHADE			2		50 Min	SPRAY OR BRUSH		BP56179			TR10200P			
17		END FRAME, CLAMP PLATE, CIGGS BEAM, T.G & T.C. BRACKETS, OTHER STEEL PARTS GOING INSIDE TRANS. TANK	OUT SIDE		CHEMICAL & THERMAL RESISTANT EPOXY WHITE SHADE			2		50 Min. TOTAL DFT 100 Min	SPRAY OR BRUSH		AA56105 BP56179			TR10200P			
18		TRANS. TANK COVER, TURRETS, INSID. COVER, CONS., RAD. HEADERS, RELIEF VENT, CABLE BOXES, P.W., A-FRAME, MARSHALLING BOX ETC	IN SIDE		OIL RESISTANT FULL GLOSSY EPOXY WHITE PAINT.			2		40 Min. TOTAL DFT 80 Min	SPRAY OR BRUSH		BP 56179			TR10211P			
19		RADIATORS (ALUMINIUM PAINTING)	OUT SIDE		ANTI CORROSIVE PRIMING PAINT. ALUMINIUM PAINT			2		40 Min. TOTAL DFT 80 Min	FLOODING SPRAY OR BRUSH		AA56101 AA56126			TR10200P			

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13/2/18
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26/4/18

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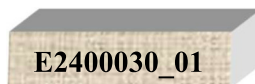
स्वीकृत किया :
APPROVED : sd/SRR, sd/SNA
जारी किया : ISSUED :
रीअप्राय्स्ड वालक : TRE STD.
नया किया : PREPD. :
SD/-SJ

दिनांक : DATE :
23-03-1986

TR 10005P		उत्पाद मानक परिणामित्र शाय / अयि. निर्देश		PRODUCT STANDARD TRANSFORMER SHOP / ENGG. INSTRUCTIONS		TR 10005 P	
Page no. 2038		6 पृष्ठों में 5		PAGE 5 OF 6			

1	2	3	4	5	6	7	8	9	10
SR NO	PARTS	SUR. FACE	PAINT	NO OF COATS	HOW APPLIED	PAINT SPEC	DRY PAINT FILM TH. MICRON	PROCESS S/C	REMARKS
20	TRANSFORMER TANK & COVER, TOP & BOT. TANK & TURBINES & INSPECTIONS COVERS, CONSERVATOR HEADERS, A-FRAMES, PW ETC.	IN SIDE	CHEMICAL & THERMAL RESISTANT EPOXY WHITE PAINT	1	SPRAY OR BRUSH	TRE/165	TOTAL DFT 50 Min	TR1026P	POLYURETHANE PAINTING
	END FRAME, CLAMP PLATE, CROSS BEAM, I.C. BRACKETS, OTHER STEEL PARTS GOING INSIDE TRANS TANK	OUT SIDE	CHEMICAL & THERMAL RESISTANT EPOXY ZINC PHOSPHATE PRIMER & POLYURETHANE FINISHING PAINT	1	SPRAY OR BRUSH	TRE/165	TOTAL DFT 50 Min		
	RADIATOR	IN SIDE	FLUSHED WITH VARNISH	1	SPRAY OR BRUSH	TRE/06003	TOTAL DFT 50 Min		
		OUT SIDE	CHEMICAL & THERMAL RESISTANT EPOXY ZINC PHOSPHATE PRIMER & POLYURETHANE FINISHING PAINT	1	SPRAY OR BRUSH	TRE/165 OR AAS/105	TOTAL DFT 50 Min		
21	TRANSFORMER TOP TANK, BOT. TANK & TURBINES & INSPECTIONS COVERS, CONSERVATOR HEADERS, A-FRAMES, PW ETC.	IN SIDE	OIL RESISTANT FULL GLOSSY WHITE PAINT	2	SPRAY OR BRUSH	BP-55123	40 Min	TR1021P	
		OUT SIDE	CHEMICAL & THERMAL RESISTANT EPOXY ZINC PHOSPHATE PRIMER & POLYURETHANE FINISHING PAINT	2	SPRAY OR BRUSH	AAS/105	50 Min	TR1022P	
		CUT	CHEMICAL & THERMAL RESISTANT EPOXY PRIMER & POLYURETHANE FINISHING PAINT	1 OR 2	SPRAY OR BRUSH	AAS/142	50 Min		

परी. Rev. 18C दिनांक Date 13/11/18 परी. Rev. 18B दिनांक Date 26/11/16	वितरण DISTRIBUTION TRX/TRANS/MTM TRX/TTG QC-TCB-QA-TCB JHANSI	गो. मं. स्वीकृत किया : APPROVED : SD/SR, SD/SNA जा. किया : IS/JED : टी.आई. मानक : PRE STD. रिपोर्ट किया : REPD : SD/SJ	दिनांक : DATE : 23-03-1986
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Bharat Heavy Electricals Limited

(A Govt of India Undertaking)

Materials Management Department

Jhansi 284120

Tel: 0510-2412317,

e-mail: pk.priyadarshi@bhel.in; shams@bhel.in

4. **Flange cost** – shall be inclusive in the basic cost.
5. **Packing and Forwarding** – shall be inclusive in the basic cost.
6. Total requirement of pressed steel radiators shall be as per Annexure-I $\pm 30\%$ for rate contract period. The requirement is tentative and may vary depending upon BHEL order booking position and our production requirement.
7. **Validity of Rate Contract** - Quoted/ settled rate shall be valid for ordering up to 24 months from the date of award of rate contract letter and 27 months for supplies. The rate contract may be extended for 3 months on satisfactory performance by vendors, subject to mutual consent.
Order will be placed on vendor against this R/C as and when the requirement comes.
8. **Manufacturing capacity** – Bidder should indicate the manufacturing capacity of the works, radiators/ month and also tentative capacity (radiators / month) available for BHEL, Jhansi against this tender.
9. **Bid Evaluation** - The bid shall be evaluated on Ex-Works basis (-Net of ITC-). Bidders may note that quoted rates shall be loaded for any deviation from the terms & conditions given in this enquiry, to arrive at landed cost net of ITC rate.
10. **Price Variation:** Price Variation claim shall be allowed over the quoted base price as under.
 - (a) For every 1 Rupee / Kg. Increase/decrease in JPC basic price (exclusive GST) of 1mm thick CR coils. The basic radiator cost will increase/decrease by Rs. 1.00/Kg of design weight of the Radiator as given in our drawings / PO. If radiator element weight is 100 Kg. and there is price increase of Rs. 1/Kg. of 1mm CR coils, radiator element price would Increase by Rs. 100.- (i.e. 100 Kg x 1.00).
 - (b) The basic rates quoted as per Annexure-VII shall be based on the JPC price (Retail) of Rs. **83.16** /Kg. (Delhi base price including GST) as on 20.04.21 for 1 mm CR Coils. The JPC circular can be obtained from JPC at Kolkata for getting change in price of 1- mm thick CR coils & to raise bills based on PVC claim. As the displayed price includes the GST therefore the GST shall be subtracted from the rate as applicable from time to time, JPC price excluding GST is **Rs. 70.47** as on 20.04.21. The existing rate of GST is 18% (Delhi base price).
 - (c) JPC price of 1- mm tk. CR coils applicable for one month prior of actual delivery month (Ex-works) or PO delivery month (Ex-works) whichever is lower shall be considered for PVC claim, For example, if radiator is supplied in AUG-19 and PO delivery is SEP-19, JPC price applicable for the month of JUL-19 or AUG-19 whichever is lower shall be taken for PVC claim. This clause shall not be applicable for cases where supplier prepones dispatches on request of BHEL. BHEL will give mail to supplier for pre-ponement. In such cases, PVC shall be given as per JPC Price applicable for one month prior to actual delivery (e.g Jul'19).
 - (d) The JPC price declared on first / second day (first week) of every month in JPC website shall be considered for PVC calculation purpose. Further, price declared subsequently during same calendar month shall not be considered.
 - (e) For the purpose of calculation of PVC, the delivery completion shall be reckoned with date of LR .
 - (f) Weight / element for PVC purpose shall be as per individual POs.

Seal and sign of Bidder

Registered Office: BHEL House, Siri Fort, New Delhi 110049

11. **Manner of Splitting:** Contract shall be established with 'n-1' suppliers (where n is techno-commercially accepted vendors) limited to 04 suppliers for execution of this contract and quantity distribution among L1, L2..... to & L4 would be in the ratio (%) as shown in the below table based on L1 agreed rate. The L1 agreed rate will be counter offered in sequence to L2, L3, L4for acceptance till a total of required vendors are available for finalization of rate contract at L1 agreed rate. In case, less than 04 bidders accept the counteroffer rate, then the Contract distribution will be as per table given below:

No of vendors	L1	L2	L3	L4	Total
1	100				100
2	65	35			100
3	50	33	17		100
4	50	25	15	10	100

12. **% Loading among suppliers** - Percentage loading of radiator may also vary considering delivery performance during execution of rate contract. This is to ensure timely delivery of radiators to meet our turnover requirement.

Radiators for BHEL's customer such as PGCIL, NTPC or others, where approved vendors are specified by them, will be purchased from those vendors only. In those cases BHEL would place purchase orders pertaining to requirement of such contracts on the approved vendors of respective customer only. The percentage ordering on vendors as per the contract may therefore vary depending upon the nature of orders received by BHEL. Further, loading shall be done to supplier who is near to the site when material is to be delivered.

13. **Taxes & Duties** - Taxes & Duties shall be extra as applicable on the date of actual delivery. It may be noted that evaluation of quoted prices shall be done on the basis of landed cost at BHEL, Jhansi which shall be arrived at after loading the prices wherever required. Applicable taxes & duties on the date of offer MUST be mentioned.

14. **Inspection** - Inspection may be done at supplier's works by BHEL CQX/CQ/Third Party/Customer as per BHEL Standard procedure and standard or specific QA Plan.

Third party/customer inspection co-ordination will be done by the supplier through CQX/MM/TRC. Advance notice of 15 days or more, as required by customer is to be given by the supplier.

15. **Material to site (MTS) -**

(A) In case of MTS PO, the delivery of Radiator shall be based on the readiness of site storage. Manufacturing clearance & Site Address will be given 2 months before the actual requirement at site and PO delivery shall be amended accordingly.

(B) **Unloading of Material:** In case of Material to be unloaded at Project/ Customer site, in most of the cases, the unloading shall be done by BHEL/ Customer. In case, the same is done by the Transporter, the unloading charges as below shall be paid:

Seal and sign of Bidder

Vehicle Category	Truck (7MT)	Truck (15MT)	Trailer (22MT)
Charges per Vehicle (Rs)	4000	6000	10000

- (C) **Detention Charges:** If at unloading point, the vehicle is detained for more than two days (for reason not attributable to the transporter) excluding day of entry & exit , detention charge shall be paid as below:

Vehicle Category	Truck (7MT)	Truck (15MT)	Trailer (22MT)
Charges per Vehicle / Day (Rs)	400	500	2000

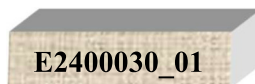
Note:- For Truck maxm . detention charge shall be limited to Rs 10,000 while for trailer maxm. Detention charge shall limit to 10% of basic freight.(C/ 12-14).

Documents such as GPS record duly verified by dealing purchase executive / record of checking 'in' and 'out' at site / BHEL with seal and sign of security / confirmation from site incharge / confirmation from Commercial executive for verification of detention shall be required.

No detention charges, whatsoever, shall be payable if the responsibility for unloading rests with the transporter and the site is ready to receive the goods

16. **Rejection Replacement** - Final inspection for acceptance of quality shall be at BHEL after receipt of material and results shall be binding on the suppliers. In case of rejection due to noncompliance to agreed specification and for the reasons attributable to the Vendor, the materials shall be replaced by vendor free of charge on "PO delivery terms basis" including 'interalia' cost elements such as total transportation, insurance and other taxes/levies etc. as applicable. The rejected goods shall be subsequently returned to the Vendor at his cost.
17. **Levy of Penalty for delayed performance** - Bidders to note that penalty @ 0.5% per week or part thereof subject to 10% maximum on undelivered portion shall be applicable for delay in supply beyond contractual delivery period. Bidders are requested to give specific acceptance for penalty clause.
 - (A) In case of "FOR BHEL Jhansi delivery terms" Date of receipt of material at BHEL works i.e. DRS date will be considered as proof of delivery for calculating delayed performance / penalty for indigenous bidders.
 - (B) In case of "MTS delivery terms" Date of receipt of LR duly signed & stamped by Customer/ BHEL will be considered as proof of delivery for calculating delayed performance / penalty for indigenous bidders.
18. Suppliers not registered with Permanent code are required to submit duly filled supplier's Registration form (SRF) along with bid. Bidders can download the SRF from website www.bhel.com .
19. Offers of the bidders who are delisted or are on the banned list and /or those bidders who engage services of the delisted/banned firms, shall be rejected. The list of firms banned by BHEL is available on BHEL web site www.bhel.com
20. All corrigenda, addenda, amendments. Time extensions, clarifications etc. to the tender will be hosted on BHEL website (www.bhel.com & <https://eprocure.gov.in/cppp/>) only. Bidders responding to press tender should regularly visit website(s) to keep themselves updated.

Seal and sign of Bidder



Bharat Heavy Electricals Limited

(A Govt of India Undertaking)

Materials Management Department

Jhansi 284120

Tel: 0510-2412317,

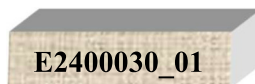
e-mail: pk.priyadarshi@bhel.in; shams@bhel.in

21. Vendors particulars & logistics information (Bidder to give details against each of the provisions).

Name of the vendor's Executive to deal with this tender/ project	
E- mail Address of the contact person	
Telephone no. of the contact person	
Name of location from where the goods shall be offered for inspection and dispatch	

Seal and sign of Bidder

Registered Office: BHEL House, Siri Fort, New Delhi 110049



Bharat Heavy Electricals Limited

(A Govt of India Undertaking)

Materials Management Department

Jhansi 284120

Tel: 0510-2412317,

e-mail: pk.priyadarshi@bhel.in; shams@bhel.in

Annexure - V

DECLARATION BY BIDDER THAT THE FOLLOWING MANDATORY RESOURCE REQUIREMENTS ARE AVAILABLE WITH THEM

SI	Requirements
1	We are purchasing raw material – CRCA sheets from registered traders/stockists/dealers/manufacturers.
2	We have facility for profile cutting 1.0mm and 1.2mm thick CRCA sheet to exact profile of radiator.
3	We have facility for manufacture of flutes/corrugations on sheets for Radiator.
4	We have availability of Arc, Gas welding facilities.
5	We have availability of automatic seam welding machine with provision of - Adjustment of speed of rolling of sheets. - Adjustment of current. - Backup power supply
6	We have availability of facility for compressed air and sand/shot blasting
7	We have availability of overhead/jib crane for movement of material/radiators
8	We have availability of in-house facility for conducting all routine and type test of radiator
9	We have Experience, knowledge and in-house capability of carrying out enamel, epoxy, PU, aluminium painting of radiators.
10	We have availability of experienced and trained manpower for drawing reading.
11	We have Capability and availability of Infrastructure to attend to problems/ complaints in radiators at site anywhere in India.

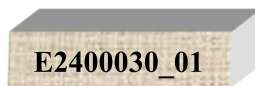
Address of Works	
Name of Contact Person	
Contact no & E mail ID	

We declare that the above mandatory facilities are available at our works. Our offer is liable to be rejected in case the above mandatory requirements are not available at our works / information (wherever called) is not filled. BHEL reserves the right to assess the facilities of bidders at random at any point of time and we agree for penal action from BHEL in case any of the above information furnished by us is found to be false.

Date:

(Signature of Supplier
with Name, Designation and Seal)

Seal and sign of Bidder



Bharat Heavy Electricals Limited

(A Govt of India Undertaking)

Materials Management Department

Jhansi 284120

Tel: 0510-2412317,

e-mail: pk.priyadarshi@bhel.in; shams@bhel.in

Annexure-VI

INTEGRITY PACT(IP)

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

The IP as enclosed with the tender is to be submitted (duly signed by authorized signatory who signs in the offer) along with techno-commercial bid. Only those bidders who have entered into such an IP with BHEL would be competent to participate in the bidding. In other words, entering into this Pact would be a preliminary qualification.

Details of IEM for this tender is furnished below:

1.Name: Shri Arun Chandra Verma, IPS (Retd.)
Email: acverma1@gmail.com

2. Name: Shri Virendra Bahadur Singh , IPS (Retd)
Email: vbsinghips@gmail.com

2. Please refer Section-8 of IP for Role and Responsibilities of IEMs. In case of any complaint arising out of the tendering process, the matter may be referred to the IEM mentioned in the tender.

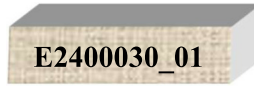
Note:

No routine correspondence shall be addressed to the IEM (phone/ post/ email) regarding the clarifications, time extensions or any other administrative queries, etc on the tender issued. All such clarification/ issues shall be addressed directly to the tender issuing (procurement) department

For all clarifications/ issues related to the tender, Please contact:

Name: P.K.Priyadarshi
Deptt: Sr Engineer (Material Management)
Address: BHEL Jhansi
Phone: (Landline/ Mobile): 0510-2412317/2424/ 6386544486, 9415113470
Email: pk.priyadarshi@bhel.in , shams@bhel.in

Seal and sign of Bidder



Bharat Heavy Electricals Limited

(A Govt of India Undertaking)

Materials Management Department

Jhansi 284120

Tel: 0510-2412317,

e-mail: pk.priyadarshi@bhel.in; shams@bhel.in

INTEGRITY PACT

Annexure - VI

Between

Bharat Heavy Electricals Ltd. (BHEL), a company registered under the Companies Act 1956 and having its registered office at "BHEL House", Sir' Fort, New Delhi - 1 10049 (India) hereinafter referred to as The Principal", which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the ONE PART.

And

(description of the party along with address)

.....

..... ,

hereinafter referred to as The Bidder/ Contractor" which expression unless repugnant to the context or meaning hereof shall include its successors or assigns of the OTHER PART'

Preamble

The Principal intends to award, under laid-down organizational procedures, contract/s for The Principal values full compliance with all relevant laws of the land, rules and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder(s)/ Contractor(s).

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

Seal and sign of Bidder

Registered Office: BHEL House, Siri Fort, New Delhi 110049

Annexure - VI

Section 1- Commitments of the Principal

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

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

- 2.1 The Bidder(s)/ Contractor(s) commit himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.
 - 2.1.1 The Bidder(s)/ Contractor(s) will not, directly or through any other person or firm, offer, promise or give to the Principal or to any of the Principal's employees involved **in the tender process or the execution of the contract or to any third person any material , immaterial or any other benefit which he / she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.**
 - 2.1.2 The Bidder(s)/ Contractor(s) will not enter with other Bidder(s) into any illegal or **undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.**
 - 2.1.3 The Bidder(s)/ Contractor(s) will not commit any penal offence under the relevant IPC / PC Act; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of **competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.**
 - 2.1.4 The **Bidder(s)/ Contractor(s)** will, when presenting his bid , disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 2.2 The Bidder(s)/ Contractor (s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

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

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

Seal and sign of Bidder

Annexure - VI

Section 4 - Compensation for Damages

- 4.1 If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover the damages equivalent Earnest Money Deposit/Bid Security.
- 4.2 If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to section 3, the Principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to 5% of the contract value or the amount equivalent to Security Deposit/Performance Bank Guarantee, whichever is higher.

Section 5 - Previous Transgression

- 5.1 The Bidder declares that no previous transgressions occurred in the last 3 years with any other company in any country conforming to the anti-corruption approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
- 5.2 If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section 6 - Equal treatment of all Bidders / Contractors / Sub - contractors

- 6.1 The Bidder(s)/ Contractor(s) undertake(s) to obtain from all subcontractors a commitment consistent with this Integrity Pact and report Compliance to the Principal. This commitment shall be taken only from those sub-contractors whose contract value is more than 20 % of Bidder's/ Contractor's contract value with the Principal. The Bidder(s)/ Contractor(s) shall continue to remain responsible for any default by his Sub-contractor(s).
- 6.2 The Principal will enter into agreements with identical conditions as this one with all Bidders and Contractors.
- 6.3 The Principal will disqualify from the tender process all bidders who do not sign this pact or violate its provisions.

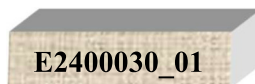
Section 7 - Criminal Charges against violating Bidders/ Contractors / Subcontractors

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

Section 8 -Independent External Monitor(s)

- 8.1 The Principal appoints competent and credible Independent External Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
- 8.2 The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the CMD, BHEL.
- 8.3 The Bidder(s)/ Contractor(s) accepts that the Monitor has the right to access without restriction to all contract documentation of the Principal including that provided by the Bidder(s)/ Contractor (s). The Bidder(s)/ Contractor(s) will grant the monitor. upon his request and demonstration of a valid interest, unrestricted and unconditional access to his contract documentation. The same is applicable to Sub-contractor(s). The Monitor is under contractual obligation to treat the information and documents of the Bidder(s)/ Contractor(s) / Sub-contractor(s) with confidentiality,
- 8.4 The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the contract provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
- 8.5 As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or take corrective action, or heal the situation, or to take other relevant action. The Monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action.
- 8.6 The Monitor will submit a written report to the CMD. BHEL within 8 to 10 weeks from the date of reference or intimation to him by the Principal and, should the occasion arise, submit proposals for correcting problematic situations.

Seal and sign of Bidder



Bharat Heavy Electricals Limited

(A Govt of India Undertaking)

Materials Management Department

Jhansi 284120

Tel: 0510-2412317,

e-mail: pk.priyadarshi@bhel.in; shams@bhel.in

Annexure - VI

- 8.7 The CMD, BHEL shall decide the compensation to be paid to the Monitor and its terms and conditions.
- 8.8 **If the Monitor has reported to the CMD, BHEL, a substantiated suspicion of an offence under relevant IPC / PC Act, and the CMD, BHEL has note, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.**
- 8.9 The number of Independent External Monitor(s) shall be decided by the CMD. BHEL.
- 8.10 The word 'Monitor' would include both singular and plural.

Section 9 - Pact Duration

- 9.1 This Pact begins and shall be binding on and from the submission of bid(s) by bidder(s). It expires for the Contractor 12 months after the last payment under the respective contract and for all other Bidders 6 months after the contract has been awarded.
- 9.2 If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified as above, unless it is discharged/ determined by the CMD, BHEL.

Section 10 - Other Provisions

- 10.1 This agreement is subject to Indian Laws and jurisdiction shall be registered office of the Principal, i.e. New Delhi.
- 10.2 Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.
- 10.3 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 10.4 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 10.5 **Only those bidders / contractors who have entered into this agreement with the Principal would be competent to participate in the bidding. In other words, entering into this agreement would be a preliminary qualification.**

For & On behalf of the Principal

For & On behalf of the Bidder / Contractor

(Signature with Office Seal)

(Signature with Office Seal)

Place : _____

Date : _____

Witness 1 : _____

Witness 2 : _____

(Name & Address) : _____

(Name & Address) : _____

Seal and sign of Bidder

Registered Office: BHEL House, Siri Fort, New Delhi 110049

Annexure - VII



DATE: 20TH APRIL 2021

JPC MARKET PRICE RETAIL FOR 16TH APRIL 2021

(Rs/Tonnes)

Sl. No.	ITEM	Kolkata	Delhi	Mumbai	Chennai
25	H. R. COILS 3.15 MM	69840	71280	75490	73910
26	C. R. COILS 0.63 MM	82750	84340	89380	87620
27	C. R. COILS 1.00 MM	81250	83160	88710	87100
28	G. P. SHEETS 0.40 MM	89500	92450	92000	88050
29	G. P. SHEETS 0.63 MM	88500	90090	91510	87080
30	G. C. SHEETS 0.40 MM	89500	92990	93720	89490
31	G. C. SHEETS 0.63 MM	88500	90630	92360	88490
32	MELTING SCRAP H M S - I	42670	42960	43070	39620
33	MELTING SCRAP H M S - II	41500	42920	41300	38030
34	SPONGE IRON (COAL BASED)	34670	40050	24890	34420

NOTE:

- 1) JPC will not be responsible for the outcome of any work done by any party/user of this report based on the data featured in this report.
- 2) Prices are Indicative.
- 3) Prices are Inclusive of GST.
- 4) All prices are In Rs. /Tonne and has been compiled on the basis of average of Main & Others producers' price.
- 5) All prices are as on the 16th April 2021.
- 6) Prices have been rounded up to the nearest ten.
- 7) Price for Blooms 150X150MM was not available In Chennai.



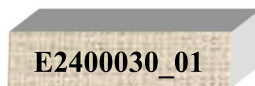
'ISPAT NIKETAN', 52/1A, Ballygunge Circular Road, Kolkata - 700 019

'इस्पत निकेतन', 52/1A, बालीगंज सर्कुलर रोड, कोलकाता - 700 019

Phone : 91 (033) 2461-4055/4058/4068 Fax : 2461-4063 E-mail : jpc-wb@nic.in Website : www.jpcindiansteel.nic.in

Seal and sign of Bidder

Registered Office: BHEL House, Siri Fort, New Delhi 110049



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Annexure - VIII

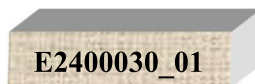
GENERAL TERMS & CONDITIONS OF REVERSE AUCTION

BHEL shall be resorting to Reverse Auction (RA) (Guidelines as available on www.bhel.com) for this tender. RA shall be conducted among all the techno-commercially qualified bidders.

Price bids of all techno-commercially qualified bidders shall be opened and same shall be considered as initial bids of bidders in RA. In case any bidder(s) does not participate in online Reverse Auction, their sealed envelope price bid along with applicable loading, if any, shall be considered for ranking.

Seal and sign of Bidder

Registered Office: BHEL House, Siri Fort, New Delhi 110049



Bharat Heavy Electricals Limited

(A Govt of India Undertaking)

Materials Management Department

Jhansi 284120

Tel: 0510-2412317,

e-mail: pk.priyadarshi@bhel.com

Annexure - IX

Acceptance to Salient Terms & Conditions of the Enquiry
i.e. Techno-Commercial Bid

SL. NO.	DESCRIPTION	TO BE FILLED-IN BY THE BIDDER
1	Name of the Bidder with Tel. No. / Fax Nos./ E-mail.	
2	Name & Designation of the contact person	
3	Address of the Works	
4	HSTN code	
5.1	Complete acceptance to all terms & conditions of tender enquiry as mentioned in Annexure I to V.	Accepted
5.2	Participation by the bidders in the tender shall be construed as acceptance of the bidder to the GTC JHS2055A-Rev03 uploaded at https://jhs.bhel.com/apps/sip/enq_terms/enq_tems_current.pdf We confirm that we have read the GTC with applicable revision, and accepts the same.	Accepted
5.3	Test Certificate of material used, Routine / Type Test Certificate of Radiators to be furnished by the bidder along with supply as & when required.	Accepted
6	Acceptance for finalization of Price bid part-B through on line bidding (Reverse Auction).	Accepted
7	Guarantee :- Shall be applicable as per latest revision of tender general terms and conditions of BHEL Jhansi JHS 2055A (available at BHEL Jhansi site) NOTE: In case of non-acceptance of Guarantee term. There will be 1% per month loading in offer price per month, i.e. if a vendor accepts 18 months of warranty in place of NIT conditions of 24 months' warranty, then loading in offer price will be = (24 months-18 months) x 1% = 6%.	Accepted
8	(a) Delivery period on Ex-Works basis from date of PO issue / Drg approval, whichever is later BHEL shall reject the offer(s) of such bidders whose quoted / derived delivery period on Ex-works basis is more than 45 days including time for inspection.	 Days Accepted
	(b) Supply rate per month exclusively for this tender Note: BHEL Jhansi monthly requirement is minimum 100 nos. radiators from a vendor. Offers with monthly capacity less than 100 numbers shall be rejected.	No./month

Seal and sign of Bidder

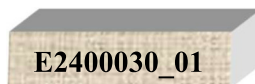
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Annexure - IX

9(A)	Taxes & Duties - Extra as applicable	Accepted
	GST	%
10	Price Bid submitted as per attached price bid format only (Copy of blank price bid is submitted).	Accepted
11	<i>The extra charges of painting / Export packing as per the clause 3 of Annexure-IV</i>	Accepted
12	Price variation clause shall be as per Clause 10 of Annexure IV.	Accepted
13	While prices are called on Ex-Works basis and evaluation shall be done on Ex works basis. Terms of Delivery shall be on FOR Destination basis (BHEL Jhansi / Site). Freight & Insurance shall in Supplier's scope, which will be paid extra as per Clause 2 of Annexure-IV .	Accepted
	Signed copy of Integrity pact (Annexure VI) attached	Accepted
14	Acceptance for 120 days Validity of offer from date of tender opening.	Accepted
15	Inspection – Material may be source inspected by BHEL / Customer / Third party, as per the drawing mentioned in the PO. In case Customer approved drawing is a mandatory requirement, the same shall be indicated in the order. However, Final inspection for acceptance of quality and quantity shall be done at BHEL's works after receipt of material and results shall be binding on the suppliers Suppliers shall give Inspection call (wherever reqd in PO/ QAP) 15 days in advance.	Accepted
16	Payment Terms 100 % payment within 90 days (45 days for MSE / NSIC registered suppliers as per relevant act in force) from the date of receipt of material at BHEL Jhansi / Site and submission of clear and admissible bill, subject to acceptance of material, on direct presentation of the documents". Any deviation from the above payment terms, if accepted (by BHEL), shall be loaded @ SBI base rate (as on date of Part I bid opening) + 6%, for the purpose of bid evaluation.	Accepted
17	Liquidated Damage / Penalty - Failure to supply by the time specified in the order will make the supplier liable to pay unconditional penalty of 1/2% of the price of the goods in arrear (delayed and not supplied) per week or part thereof, subject to a maximum of 10% of the order value unless agreed otherwise.	Accepted
18	Risk Purchase - If the material is not supplied within stipulated delivery indicated in PO, BHEL shall have the option to purchase the material from other sources at the supplier's risk & cost. NOTE: In case of non-acceptance of Risk Purchase clause, loading of 10% shall be done on supplier's quoted rate to derive the L-1 Status. (5% is additional cost incurred for risk purchase & 5% as administrative cost).	Accepted
19	"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	Accepted

Seal and sign of Bidder



Bharat Heavy Electricals Limited

M: **Annexure - IX**

Jhansi 284120
Tel: 0510-2412317,

e-mail: pk.priyadarshi@bhel.in; shams@bhel.in

	their notice."	
20	Prices has been quoted in the format given along with enquiry. Offers with price in any other format will be rejected)	Accepted
21	Suppliers have to quote Basic cost of Radiator (in black condition) in Rs per kg including P & F on Ex-Works basis BHEL will advise the supplier regarding destination i.e. BHEL Jhansi stores / Material to site (MTS) at the time of dispatch. Freight & Insurance Charges shall be paid extra (Refer Clause 2, Annexure-IV).	Accepted
22	<u>SAMPLE CALCULATION OF RATE</u> Rate of a Radiator shall be calculated as follows: Let 'A' is the basic cost of Radiator / kg. Rate of Radiator in black condition : 'A' * Wt. Of Radiator (kg). Paint extra as per Clause 3, Annexure IV, Freight & Insurance Charges shall be paid extra (Refer Clause 2, Annexure-IV). Taxes and duties shall be extra as detailed in above table. We confirm that we have quoted basic rates of Radiator on Ex-works basis including packing & forwarding.	Accepted

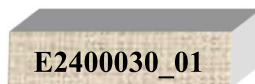
Name & Signature of Authorized Representative of the Bidder

.....

Name of Company.....

Date:

Seal and sign of Bidder



Bharat Heavy Electricals Limited

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Materials Management Department

Jhansi 284120

Tel: 0510-2412317,

e-mail: pk.priyadarshi@bhel.in; shams@bhel.in

PRICE BID, PART - B FOR ENQUIRY NO. E2400030

Annexure - X

Supplier Name & Address :

Item No.	Item Description in brief	Qty (Nos.)	Basic Rate of Radiator in Rs per kg including P& F (on Ex-Works basis)
1	Radiator 5 flute – 24 flute Pressed steel (rippled) radiators to 1200mm – 3500 mm valve centre & Maxm.upto 32 elements. THICK=1 MM/1.2 MM - in accordance with BHEL Drg no. 04994300010 -rev. 9F / 04994300007 Rev 19B	4300	
In words:-			

Note :-

- 1) The price bid submitted in any other fashion or by adding any condition (e.g. minimum order quantity, rates applicable for specified quantity, discount for quantity, rate based on slabs, rate based on terms of payment etc.), offer shall be straight way REJECTED even if, offer has been found technically & commercial acceptable before opening of price bid.
- 2) Freight & insurance will be paid extra as per Annexure –IV, Clause no.2
- 3) Quoted Rates should be upto two decimal place.

Name & Signature of Authorized Representative of the Bidder

.....

Mob No,:

Name of Company.....

Date:

Seal and sign of Bidder