



BHARAT HEAVY ELECTRICALS LIMITED Phone : 044-28161306

(A Government of India Undertaking) 044-28161297

PIPING CENTRE, OUTSOURCING DEPARTMENT

80, Gopathy Narayanasamy Road, T.Nagar, Chennai – 600 017.

**OPEN TENDER FOR FABRICATION OF PIPE BENDS ON
CONVERSION BASIS WITH BHEL MATERIALS**

REF : 4601200030

DT : 21-11-12

Sub : Open tender for fabrication of pipe bends on conversion basis with BHEL materials.
Ref : Enquiry No. : 4601200030 Dt. 21-11-12 Due on 05-12-12

Competitive offers in two part bid are invited from **'Domestic Vendors'** for fabrication of pipe bends on conversion basis with BHEL materials. In this connection the following are enclosed.

- 1] Pre-Qualification Requirements [POR] – This form should be filled and sent along with supporting documents.
- 2] Scope of work.
- 3] Annexure-A : Techno-Commercial format – to be filled and submitted.
- 4] Annexure-B : Price format indicating the list of items and quantity – to be filled and submitted.
- 5] Vendors who are not already registered with BHEL, Piping centre, Chennai – 600017 should submit the 17 page **SUPPLIER REGISTRATION FORM** [by downloading the same from www.bhel.com -> supplier registration -> Suppliers within India] duly filled with documents as called for and warranted.
- 6] Sample indicative line drawings, General terms and conditions.
- 7] Quality Plan : QPG:73 REV. 03
- 8] Annexure-C : Indicating status of attachment supply.

Offers should be submitted as per details given below.

Cover – 1 :

This cover should contain [a] PQR format [b] Filled up Annexure-A [c] Annexure-B with out indicating the price but mentioning as 'Quoted' against the items for which the vendor is quoting [d] 17 page supplier registration form – if applicable.

The cover should be sealed, super scribed with enquiry no, date, due date and captioned as 'PART-I, POR, TECHNO-COMERCIAL OFFER'.

Cover – 2 :

This cover should contain only the Annexure-B price format with quoted price.

The cover should be sealed, super scribed with enquiry no, date, due date and captioned as 'PART-II, PRICE BID'.

Both the above 2 covers should be put in another cover, sealed, super scribed with enquiry no, date, due date and should be addressed to

AGM / OS
BHEL, PIPING CENTRE
80, G N ROAD
T NAGAR
CHENNAI – 600017.

Offers as above should reach us on or before 1400 hrs on XX-XX-XX. Part-I of the offer containing POR, TECHNO-COMERCIAL OFFER will be opened at 1430 hrs on XX-XX-XX in front of the bidders who may choose to be present [Bidders / Bidder's Representatives who wish to witness tender opening should possess original authorisation letter in the letter head of the bidder- with out which they will not be permitted to witness the tender opening].

1. **Integrity pact (To be filled and submitted with bid without fail. Your bid will be considered only after signing and submitting the Integrity pact. Otherwise your bid is liable to be rejected).**

An independent external monitor shall monitor this tender whose contact details are as given below.

Shri D. P. Bagchi, IAS (Retd.)

Y-165, Regency Park - II,

DLF City, Phase IV,

Gurgaon - 122 009

SR MANAGER / OS

**OPEN TENDER FOR FABRICATION OF SA335P91 PIPE BENDS ON CONVERSION BASIS WITH BHEL MATERIALS
PRE-QUALIFICATION REQUIREMENTS**

Questionnaire to be filled up by vendor and sent along with necessary documentary evidence.

SL. NO	DESCRIPTION	VENDOR'S RESPONSE [YES / NO]	DETAILS OF DOCUMENTS ENCLOSED.
01	Availability of in-house INDUCTION BENDING MACHINE of Internationally reputed make with complete automatic process controls for bending SA335P91 pipes up to OD 1200 mm and wall thickness up to 80 mm		
02	Availability of in-house facility for welding of SA335P91 material and third party approved WPS / PQR for the same.		
03	Availability of in -house facility for heat-treatment using a furnace calibrated upto 1100 degrees C to carry out normalising, tempering and PWHT for SA335P91 material. Vendor shall also have knowledge of above HT cycles.		
04	Vendor shall have prior experience in bending and welding of SA335P91 pipes.		
05	Accept to manufacture SA335P91 pipe bends as per BHEL QP Ref.: QPG:73 Rev.:03 and BHEL drawing, documents [GMS].		
06	Willing to execute Bank Guarantee for 10 Lakhs to take care of material cost of SA335P91 material in case of loss/ damage valid for the complete duration of the execution of the contract.		
07	Vendor shall have a piping assembly production capacity of minimum 100 tonnes / month and a turnover of Rs. 100 crores per annum.		
08	Vendor should furnish willingness to recover the cost of material in case of faulty fabrication / damage / loss of material.		
09	Vendor should possess valid IBR approval for manufacture of piping products coming under IBR purview.		
10	Have IBR qualified welders for CS, AS, P22 and P91 welding.		
11	Have in-house pipe edge preparation machines for 'P' style edge preparation for pipes up to OD 1200 mm		

NOTE :

- 1] BIDS OF VENDORS MEETING ALL THE ABOVE POINTS 100% TO BHEL'S SATISFACTION ONLY WILL BE CONSIDERED.
- 2] BIDS OF VENDORS NOT MEETING EVEN ANY ONE OF THE ABOVE POINTS WILL BE SUMMARILY REJECTED.
- 3] VENDORS WHO HAVE APPLIED AGAINST OUR EARLIER EOI IN 2010 AND NOT APPROVED CAN APPLY ONLY IF THEY HAVE UPGRADED THEIR FACILITIES IN LINE WITH REQUIREMENTS INDICATED ABOVE.

SIGNATURE OF THE VENDOR :

NAME :

OFFICE SEAL :

OPEN TENDER FOR FABRICATION OF SA335P91 PIPE BENDS ON CONVERSION BASIS WITH BHEL MATERIALS

SCOPE OF WORK :

- A] COLLECTION OF RAW MATERIALS FROM BHEL, TRICHY STORES.
- B] MANUFACTURE OF SA335P91 PIPE BENDS AS PER THE DRAWING, DOCUMENTS [GMS] AND QUALITY PLAN.
- C] INSPECTION BY BHEL / THIRD PARTY INSPECTORS AUTHORISED BY BHEL / CUSTOMER, IBR AND OBTAINING IBR CERTIFICATE FOR THE FABRICATED ITEM.
- D] PAINTING AS PER QP [ALL CONSUMABLES INCLUDING PRIMER / PAINT ETC.] IN VENDOR SCOPE.
- E] INSPECTION BY IBR AND OBTAINING IBR CERTIFICATE FOR THE FINISHED PRODUCT.
- F] DELIVERY OF FINISHED PRODUCTS TO ANY BHEL SITE IN INDIA.
- G] MATERIAL ACCOUNTING AND RETURNING OF OFF-CUTS TO BHEL TRICHY.

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ANNEXURE-A : TECHNO COMMERCIAL FORMAT FOR ENQUIRY NO. 4601200030 DT. 21-11-12, DUE ON 05-12-12

TECHNO COMMERCIAL OFFER

SL NO	DESCRIPTION	ACCEPTANCE [YES / NO]
1	MEETING OF QPG:73 REV 03 REQUIREMENTS, ENGG. DRAWINGS AND SPECIFICATION	
2	DESPATCH TO RESPECTIVE PROJECT SITE WITH IN 4 MONTHS FROM THE DATE OF MATERIAL ISSUE BY BHEL	
3	MATERIAL TO BE COLLECTED FROM BHEL, TRICHY STORES BY THE VENDOR AT HIS COST	
4	FINISHED GOODS TO BE DESPATCHED TO ANY PROJECT SITE IN INDIA BY THE VENDOR AT HIS COST [FREIGHT AND INSURANCE, SERVICE TAX ETC. AS APPLICABLE IN VENDOR'S SCOPE].	
5	OFFCUTS [AS PER STANDARD NORMS OF BHEL] ARE TO BE RETURNED TO BHEL, TRICHY STORES BY THE VENDOR AT HIS COST.	
6	PAYMENT TERMS : 85 % AGAINST PROOF OF DELIVERY OF MATERIAL AT SITE AND 10% AFTER SUBMISSION OF IBR CERTIFICATES AND MATERIAL ACCOUNTING.	
7	VALIDITY OF THE OFFER : 12 MONTHS FOR ORDERING FROM THE DATE OF PRICE APPROVAL BY BHEL.	
8	MEETING THE PACKING CONDITIONS : AS PER QP.	
9	LD : 0.5% PER WEEK SUBJECT TO A MAXIMUM OF 5% FOR THE UNDELIVERED PORTION.	
10	CUTTING PLAN SHOULD BE SUBMITTED TO BHEL FOR APPROVAL. CUTTING / MACHINING ALLOWANCE WILL BE AS PER BHEL STANDARD PRACTICE.	
11	PRICES WILL BE FINALISED THROUGH ONLINE REVERSE AUCTION	
12	THE QUANTITY INDICATED IS TENTATIVE. ACTUAL ORDER QUANTITY WILL DEPEND ON BHEL'S PLAN AND REQUIREMENTS. PLS TAKE NOTE AND CONFIRM	
13	THIS BEING A CONVERSION JOB, NO ED . ST, VAT ETC WILL BE PAID. BHEL WILL PROVIDE EXCISE INVOICE FOR FINISHED GOODS TO DESPATCH TO SITE.	
14	BHEL RESERVES THE RIGHT TO COUNTER OFFER THE L1 RATE TO THE OTHER VENDORS FOR ACCEPTANCE. 60% QUANTITY WILL BE LOADED ON L1 VENDOR AND BALANCE 40% WILL BE DIVIDED EQUALLY BETWEEN ALL THE COUNTER OFFER ACCEPTED VENDORS. IF NO VENDOR ACCEPTS THE COUNTER OFFER THEN 100 % QTY WILL BE LOADED ON THE L1 VENDOR. NOTE : INITIAL ORDER WILL BE FOR A SMALL QUANTITY ON THE L1 VENDOR AND COUNTER OFFER ACCEPTED VENDOR IF APPLICABLE. DEPENDING UPON THE PERFORMANCE ONLY FURTHER LOADING WILL BE CONSIDERED. IN CASE OF PERFORMANCE BEING NOT SATISFACTORY [PERFORMANCE WILL BE REVIEWED BY A COMMITTEE IN BHEL] THEN BHEL RESERVES THE RIGHT TO ALTER THE LOADING PERCENTAGE INDICATED ABOVE IN ANY MANNER DEEMED FIT CONSIDERING THE ULTIMATE OBJECTIVE OF TIMELY SUPPLIES TO THE CUSTOMER. ESSENCE OF THE CONTRACT IS IN-TIME DELIVERY MEETING VARIOUS PROJECT / PLAN REQUIREMENT. MAIN PARAMETER FOR LOADING IS THE DESIRED OUTPUT WITH IN THE TIME FRAME SUITABLE FOR PROJECT / PLAN REQUIREMENTS AND TO THAT EXTENT FURTHER LOADING WILL BE DONE. A SET OF INDICATIVE LINE DRGS ARE ENCLOSED. FABRICATION OF ORDERED BENDS TO BE DONE AS PER APPLICABLE DRAWING / ENGG DOCUMENTS [GMS]. PLS CONFIRM	
15	INTEGRITY PACT ENCLOSED SHOULD BE SIGNED AND SUBMITTED ALONG WITH THIS OFFER. PLS CONFIRM. ELSE YOUR OFFER WILL NOT BE ACCEPTED.	
16	BANK GUARANTEE FOR AN AMOUNT OF RS. 10.00 LAKHS [RUPEES TEN LAKHS] TO BE SUBMITTED VALID FOR THE DURATION OF THE EXECUTION OF THE ORDER(S) PLACED AGAINST THIS ENQUIRY. PLS CONFIRM.	
17	DETAILS OF ISSUE OF ATTACHMENTS [IN FINISHED CONDITION / RAW MATERIAL TO BE MACHINED BY VENDOR] IS GIVEN IN ANNEXURE - C. PLS TAKE NOTE OF THE SAME.	

DATE

SIGNATURE

STAMP

ANNEXURE-B : PRICE FORMAT FOR ENQUIRY NO. 4601200030 DT. 21-11-12, DUE ON 05-12-12

ENQ.SL NO	DESCRIPTION	REMARKS	MAIN PIPE MATERIAL	PIPE OD IN mm	PIPE WALL THICKNESS IN mm	QTY / NO	ALL INCLUSIVE [INCLUSIVE OF COLLECTION OF RAW MATERIALS FROM BHEL, TRICHY, MANUFACTURE, INSPECTION BY BHEL, CUSTOMER, IFR, PAINTING [ALL CONSUMABLES INCLUDING PRIMER / PAINT IN VENDOR SCOPE], DESPATCH OF FINISHED GOODS TO ANY SITE IN INDIA] UNIT RATE RS / NO.
1	LOOSE BEND	LOOSE BEND	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	142	
2	PIPE BEND WITH 1 STUB	STUB DIA 50 TO DIA 92	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	15	
3	PIPE BEND WITH 2 TRUNNIONS	TRUNNION 4 NOS	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	3	
4	PIPE BEND WITH 4 STUB	STUB DIA 58 TO DIA 88	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	1	
5	PIPE BEND WITH 5 STUB	STUB DIA 58 TO DIA 126	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	6	
6	PIPE BEND WITH CP	CARRIER PLATE 4 NOS	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	52	
7	PIPE BEND WITH CP & 1 STUB	CARRIER PLATE 4 NOS & STUB DIA 58	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	10	
8	PIPE BEND WITH CP & 4 STUB	CARRIER PLATE 4 NOS, STUB DIA 40 TO DIA 135	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	3	
9	PIPE BEND WITH CP & 5 STUB	CARRIER PLATE 4 NOS, STUB DIA 40 TO DIA 135	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	5	

10	PIPE BEND WITH TRUNNION	TRUNNION 2 NOS	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	9	
11	PIPE BEND WITH TRUNNION & 1 STUB	TRUNNION 2 NOS & STUB DIA 58	SA335P91	FROM 524 TO 762 MM	23 TO 72 MM	4	
12	LOOSE BEND	LOOSE BEND	SA335P91	MORE THAN 762 TO 965 MM	29 TO 55 MM	56	
13	PIPE BEND WITH 1 STUB	STUB DIA 50 TO DIA 92	SA335P91	MORE THAN 762 TO 965 MM	29 TO 55 MM	6	
14	PIPE BEND WITH CP	CARRIER PLATE 4 NOS	SA335P91	MORE THAN 762 TO 965 MM	29 TO 55 MM	18	
15	PIPE BEND WITH TRUNNION	TRUNNION 2 NOS	SA335P91	MORE THAN 762 TO 965 MM	29 TO 55 MM	8	
16	LOOSE BEND	LOOSE BEND	SA335P22	FROM 711 TO 762 MM	40 TO 45 MM	8	
17	PIPE BEND WITH 1 STUB	STUB DIA 50 TO DIA 92	SA335P22	FROM 711 TO 762 MM	40 TO 45 MM	2	
18	PIPE BEND WITH CP	CARRIER PLATE 4 NOS	SA335P22	FROM 711 TO 762 MM	40 TO 45 MM	4	
19	PIPE BEND WITH TRUNNION	TRUNNION 2 NOS	SA335P22	FROM 711 TO 762 MM	40 TO 45 MM	4	
20	LOOSE BEND	LOOSE BEND	SA335P22	FROM 864 TO 965 MM	42 TO 47 MM	4	
21	PIPE BEND WITH CP	CARRIER PLATE 4 NOS	SA335P22	FROM 864 TO 965 MM	42 TO 47 MM	2	
22	PIPE BEND WITH TRUNNION	TRUNNION 2 NOS	SA335P22	FROM 864 TO 965 MM	42 TO 47 MM	4	

DATE

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ANNEXURE - C TO ENQUIRY 4601200030 DT. 21-11-12 DUE ON 05-12-12

SUPPLY STATUS OF ATTACHMENTS						
ATTACHEMENT	DESCRIPTION	RAW MATL/FINISHED	MATERIAL CODE	SPECIFICATION	MATERIAL DESCRIPTION	
CP	CARRIER PLATE 25X150X55	RAW MATL	159422700000	SA387GR22CL2	PLATE 25.0 MM - SA387GR22CL2	
CP	CARRIER PLATE 160X50X40	RAW MATL	159422720000	SA387GR22CL2	PLATE 40.0 MM - SA387GR22CL2	
CP	CARRIER PLATE 40X60X250	RAW MATL	159422720000	SA387GR22CL2	PLATE 40.0 MM - SA387GR22CL2	
CP	CARRIER PLATE 30X50X140	FINISHED	159580740000	SA335P91	PIPE DIA 406.4 X 42.0 SA335P91	
CP	CARRIER PLATE 30X50X150 P91	FINISHED	159581126000	SA335P91	PIPE DIA 406.4 X 38 X 6000 SA335P91	
CP	CARRIER PLATE 40X50X170 P91	FINISHED	159581136000	SA335P91	PIPE DIA 559 X 54 X 6000 SA335P91	
DIA 40	METAL TEMP. STUB AS D40	FINISHED	84TSTUN4809999	SA182F22CL3	METAL TEMP. STUB AS D40	
DIA 50	SW STUB NB25 CL 6000	FINISHED	84SWASAS4809999	SA182F22CL3	SW. STUB AS NB.25 CL.6000 (A)	
DIA 58	ASME B16.11 SW STUB NB25 CL 9000	FINISHED	84SWASAS4809999	SA182F22CL3	ASME B16.11 SW. STUB NB.25; CL.9000	
DIA 58	SOCKET WELDED STUB NB25;CL 9000	FINISHED	925167140000	SA182F91	SOCKET WELD STUB NB 25 CL-9000 SA182F91	
DIA 75	TEMPERATURE STUB 30 AS D75 L45 HWR	FINISHED	84THSTN4809999	SA182F22CL3	TEMP. STUB 30 AS D75 L=45 HWR	
DIA 75	TEMPERATURE STUB AS D75 L45 HWR	FINISHED	925167210000	SA182F91	TEMPERATURE STUB OD75 L=45 HWR SA182F91	
DIA 76	ASME B16.11 SW STUB NB 40 CL 9000 (AS)	FINISHED	84SWASAS4809999	SA182F22CL3	S.W. STUB AS NB 40 CL 9000 (A)	
DIA 78	THERMOWELL STUB D78 (AS) H=138	FINISHED	84TWSTU4809999	SA182F22CL3	T.W. STUB D78 H=138 AS	
DIA 88	THERMOWELL STUB WELDED (AS) H=136	RAW MATL	153391950000	SA182F22CL3	DIA 100.0 MM - SA182F22CL3	
DIA 90	ASME B16.11 SW STUB NB50 CL 9000	FINISHED	84SWASAS4809999	SA182F22CL3	ASME B16.11 SW STUB NB50 ; CL.9000	
DIA 90	SW STUB NB50 CL 9000	FINISHED	925167280000	SA182F91	SW STUB NB 50 CL 9000 SA182F91	
DIA 92	STUB; OD60.3; SA182F91	FINISHED	925167190000	SA182F91	STUB OD 60.3 SA182F91	
DIA 126	STUB (AS) OD 88.9 X 7.62 THK	FINISHED	84STU884809999	SA182F22CL3	STUB OD 88.9X7.62 AS	
DIA 130	STUB NB 100 (AS)	RAW MATL	920840930000	SA182F91	FORGING OD150 X ID50-200L SA182F91	
DIA 135	STUB OD114.3X13.49 L122 F91	RAW MATL	920840930000	SA182F91	FORGING OD150 X ID50-200L SA182F91	
DIA 135	STUB OD114.3X13.49 L=122 F91	FINISHED	925166700000	SA182F91	STUB OD114.3X13.49 L=122 SA 182 F91	
TRUNNION	TRUNNION PIPE OD270X43.5 L=100	RAW MATL	150912310000	SA335P22	PIPE OD 273.00 x 45.00 - SA335P22	
TRUNNION	TRUNNION OD272X24.5 L=100	RAW MATL	159580550000	SA 335P91	PIPE 273X 25 SA335P91	
TRUNNION	TRUNNION PIPE Ø270X23 L=100	RAW MATL	159580550000	SA 335P91	PIPE 273X 25 SA335P91	
TRUNNION	TRUNNION L=100 OD218	RAW MATL	159580580000	SA 335-P91	PIPE DIA 219.1 X 25.0 SA335P91	
TRUNNION	TRUNNION L=100 OD 320X29.05	RAW MATL	159580700000	SA335P91	PIPE DIA 323.9 X 31.0 SA335P91	
TRUNNION	TRUNNION L=100 OD 272X35.5	RAW MATL	159914170000	SA335P22	PIPE DIA 273.0 X 36.0 X 6000 - SA335P22	
TRUNNION	TRUNNION PIPE OD271 L=100	RAW MATL	159914170000	SA335P22	PIPE DIA 273.0 X 36.0 X 6000 - SA335P22	