



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 SA335P91 PIPE WITH ATTACHMENTS ON
CONVERSION BASIS WITH BHEL MATERIALS**

REF : 4601200031

21-11-12

Sub : Open tender for fabrication of SA335P91 pipe with attachments on conversion basis with BHEL materials.

Ref : Enquiry No. : 4601200031 Dt. 21-11-12 Due on 05-12-12

Competitive offers in two part bid are invited from 'Domestic Vendors' for fabrication of SA335P91 pipe with attachments 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

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].

SR MANAGER / OS

**OPEN TENDER FOR FABRICATION OF SA335P91 PIPE WITH ATTACHMENTS 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 facility for welding of SA335P91 material and third party approved WPS / PQR for the same.		
02	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.		
03	Vendor shall have prior experience in fabrication and welding of SA335P91 pipes.		
04	Accept to manufacture SA335P91 pipe bends as per BHEL QP Ref.: QPG:73 Rev.:03 and BHEL drawing, documents [GMS].		
05	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.		
06	Vendor shall have a piping assembly production capacity of minimum 50 tonnes / month and a turnover of Rs. 50 crores per annum for the past consecutive three years.		
07	Vendor should furnish willingness to recover the cost of material in case of faulty fabrication / damage / loss of material.		
08	Vendor should posses valid IBR approval for manufacture of piping products coming under IBR purview.		
09	Have IBR qualified welders for CS, AS, P22 and P91 welding.		
10	Have in-house pipe edge preparation machines for 'P' style edge preparation for tendered pipe sizes.		

NOTE :

- 1] BIDS OF VENDORS MEETING ALL THE ABOVE POINTS 100% TO BHEL'S SATISFACTION ONLY WILL BE CONSIDERED.
- 2] BIDS OF VENDORS MEETING EVEN ANY ONE OF THE ABOVE POINTS 100% TO BHEL'S SATISFACTION 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 WITH ATTACHMENTS ON CONVERSION BASIS WITH BHEL MATERIALS

SCOPE OF WORK :

- A) COLLECTION OF RAW MATERIALS FROM BHEL, TRICHY STORES.
- B) MANUFACTURE OF SA335P91 PIPE WITH ATTACHMENTS 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. 4601200031 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.	
15	A SET OF INDICATIVE LINE DRGS ARE ENCLOSED. FABRICATION OF ORDERED BENDS TO BE DONE AS PER APPLICABLE DRAWING / ENGG DOCUMENTS [GMS]. PLS CONFIRM	
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

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ANNEXURE-B : PRICE FORMAT FOR ENQUIRY NO. 4601200031 DT. 21-11-12, DUE ON 05-12-12

SL. NO	DESCRIPTION	PIPE DIA RANGE IN mm	WALL THICKNESS RANGE IN mm	REMARKS	QTY / NO	ALL INCLUSIVE [INCLUSIVE OF COLLECTION OF RAW MATERIALS FROM BHEL, TRICHY, MANUFACTURE, INSPECTION BY BHEL, CUSTOMER, IBR, PAINTING [ALL CONSUMABLES INCLUDING PRIMER / PAINT IN VENDOR SCOPE], DESPATCH OF FINISHED GOODS TO ANY SITE IN INDIA] UNIT RATE RS / NO.
1	PIPE WITH 1 STUB	219.1 TO 406.4	25 TO 55	STUB DIA 50 TO 130 mm	33	
2	PIPE WITH 1 STUB	457 TO 559	43 TO 72	STUB DIA 50 TO 148 mm	12	
3	PIPE WITH 1 STUB	630 TO 864	21 TO 85	STUB DIA 50 TO 114 mm	41	
4	PIPE WITH 10 STUB	219.1 TO 406.4	25 TO 55	STUB DIA 58 TO 114 mm	2	
5	PIPE WITH 10 STUB	630 TO 864	21 TO 85	STUB DIA 58 TO 114 mm	7	
6	PIPE WITH 11 STUB	219.1 TO 406.4	25 TO 55	STUB DIA 58 TO 114 mm	2	
7	PIPE WITH 2 CPs	457 TO 559	43 TO 72	CP 40X50X170-2 SETS [1 SET = 4 NO]	10	
8	PIPE WITH 2 CPs	630 TO 864	21 TO 85	CP 40X50X170-2 SETS [1 SET = 4 NO]	2	
9	PIPE WITH 2 STUBS	219.1 TO 406.4	25 TO 55	STUB DIA 58 TO 114 mm	5	
10	PIPE WITH 2 STUBS	457 TO 559	43 TO 72	STUB DIA 58 TO 198 mm	16	
11	PIPE WITH 2 STUBS	630 TO 864	21 TO 85	STUB DIA 58 TO 114 mm	6	
12	PIPE WITH 2 TRUNNIONS	219.1 TO 406.4	25 TO 55	TRUNNION OD 184X49.5-2 SETS [1 SET = 2 NO]	2	
13	PIPE WITH 3 STUBS	219.1 TO 406.4	25 TO 55	STUB DIA 50 TO 139.7 mm	12	
14	PIPE WITH 3 STUBS	457 TO 559	43 TO 72	STUB DIA 50 TO 114 mm	4	
15	PIPE WITH 3 STUBS	630 TO 864	21 TO 85	STUB DIA 50 TO 114 mm	4	
16	PIPE WITH 4 STUBS	219.1 TO 406.4	25 TO 55	STUB DIA 50 TO 114 mm	5	
17	PIPE WITH 4 STUBS	457 TO 559	43 TO 72	STUB DIA 50 TO 114 mm	4	
18	PIPE WITH 4 STUBS	630 TO 864	21 TO 85	STUB DIA 50 TO 114 mm	6	
19	PIPE WITH 5 STUBS	219.1 TO 406.4	25 TO 55	STUB DIA 50 TO 114 mm	2	
20	PIPE WITH 5 STUBS	457 TO 559	43 TO 72	STUB DIA 50 TO 114 mm	2	
21	PIPE WITH 5 STUBS	630 TO 864	21 TO 85	STUB DIA 50 TO 114 mm	6	

22	PIPE WITH 6 STUBS	457 TO 559	43 TO 72	STUB DIA 50 TO 114 mm	12
23	PIPE WITH 6 STUBS	630 TO 864	21 TO 85	STUB DIA 50 TO 114 mm	3
24	PIPE WITH 7 STUBS	457 TO 559	43 TO 72	STUB DIA 58 TO 130 mm	7
25	PIPE WITH 8 STUBS	457 TO 559	43 TO 72	STUB DIA 58 TO 114 mm	2
26	PIPE WITH 9 STUBS	219.1 TO 406.4	25 TO 55	STUB DIA 58 TO 114 mm	4
27	PIPE WITH 9 STUBS	457 TO 559	43 TO 72	STUB DIA 58 TO 148 mm	6
28	PIPE WITH 9 STUBS	630 TO 864	21 TO 85	STUB DIA 58 TO 114 mm	4
29	PIPE WITH BOTTOM PLATE & SUPPORT PIPE-1 NO	630 TO 864	21 TO 85	SUPPORT PIPE 610X20 & BOTTOM PL	4
30	PIPE WITH BOTTOM PLATE & SUPPORT PIPE-1 NO, & 1 STUB	457 TO 559	43 TO 72	SUPPORT PIPE 219.1X25 & BOTTOM PL-1,DIA 127-1 / SUPPORT PIPE 219.1X25 & BOTTOM PL-1,DIA 190-1 / SUPPORT PIPE 323.9X31 & BOTTOM PL-1,DIA 127-1 /	14
31	PIPE WITH BOTTOM PLATE & SUPPORT PIPE-1 NO, & 1 STUB	630 TO 864	21 TO 85	SUPPORT PIPE 610X20 & BOTTOM PL-1,DIA 259-1	2
32	PIPE WITH BOTTOM PLATE & SUPPORT PIPE-2 NOS, & 2 STUBS	457 TO 559	43 TO 72	SUPPORT PIPE 219.1X25 & BOTTOM PL-2,DIA 127-1 & 190-1 / SUPPORT PIPE 219.1X25 & BOTTOM PL-2,DIA 198-2 /	10
33	PIPE WITH BOTTOM PLATE & SUPPORT PIPE-2 NOS, & 2 STUBS	630 TO 864	21 TO 85	SUPPORT PIPE 610X20 & BOTTOM PL-2,DIA 127-1 & 254-1 / SUPPORT PIPE 610X20 & BOTTOM PL-2,DIA 254-2 / SUPPORT PIPE 610X20 & BOTTOM PL-2,DIA 259-2	10
34	PIPE WITH CP	219.1 TO 406.4	25 TO 55	CP 30X50X150-1 SET /	47
35	PIPE WITH CP	457 TO 559	43 TO 72	CP 40X50X170-1 SET	66
36	PIPE WITH CP	630 TO 864	21 TO 85	[1 SET = 4 NO]	60
37	PIPE WITH CP & 1 STUB	457 TO 559	43 TO 72	CP 30X50X150-1 SET & DIA 58-1 /	1
38	PIPE WITH CP & 1 STUB	630 TO 864	21 TO 85	CP 40X50X170-1 SET & DIA 58-1 [1 SET = 4 NO]	6
39	PIPE WITH CP & 2 STUBS	219.1 TO 406.4	25 TO 55	CP 30X50X150-1 SET, DIA 50-2 /	2
40	PIPE WITH CP & 2 STUBS	457 TO 559	43 TO 72	CP 30X50X150-1 SET, DIA 58-1 & 108-1 [1 SET = 4 NO]	1
41	PIPE WITH CP & 3 STUBS	219.1 TO 406.4	25 TO 55	CP 30X50X150-1 SET, DIA 50-1,84-1 & 108-1, [1 SET = 4 NO]	2
42	PIPE WITH CP & 4 STUBS	219.1 TO 406.4	25 TO 55	CP 40X50X170-1 SET, DIA 58-1,92-1 & 114-2 / CP 40X50X170-1 SET, DIA 58-2 & 75-2	4
43	PIPE WITH CP & 4 STUBS	630 TO 864	21 TO 85	[1 SET = 4 NO]	2
44	PIPE WITH CP & 6 STUBS	630 TO 864	21 TO 85	CP 30X50X150-1 SET, DIA 58-3,75-1 & 88-2 / CP 40X50X170-1 SET, DIA 40-1,58-1,75-1,88-2 & 92-1 / CP 40X50X170-1 SET, DIA 58-2,75-2 & 88-2	7
45	PIPE WITH CP & 7 STUBS	457 TO 559	43 TO 72	CP 30X50X150-1 SET, DIA 58-5 & 108-2, [1 SET = 4 NO]	1

46	PIPE WITH TR	219.1 TO 406.4	25 TO 55	TRUNNION OD 184X49.5-1 SET, TRUNNION OD 118X34-1 SET [1 SET = 2 NO]	24
47	PIPE WITH TR	457 TO 559	43 TO 72		26
48	PIPE WITH TR	630 TO 864	21 TO 85	TRUNNION OD 218X21-1 SET, TRUNNION OD 184X49.5-1 SET, TRUNNION OD 322X30-1 SET, TRUNNION OD 270X23-1 SET, TRUNNION OD 118X34-1 SET, TRUNNION OD 272 X 24.5 - 1 SET, [1 SET = 2 NO]	50
49	PIPE WITH TR & 1 STUB	219.1 TO 406.4	25 TO 55	TRUNNION OD 218X21-1 SET & DIA 58-1, TRUNNION OD 184X49.5-1 SET & DIA 58-1, TRUNNION OD 184 X 49.5 - 1 SET & DIA. 90-1,	10
50	PIPE WITH TR & 1 STUB	457 TO 559	43 TO 72	TRUNNION OD 184 X 49.5-1 SET & DIA 92-1, TRUNNION OD 118X34-1 SET & DIA 90-1, TRUNNION OD 118 X 34 - 1 SET & DIA 84-1, [1 SET = 2 NO]	2
51	PIPE WITH TR & 1 STUB	630 TO 864	21 TO 85		9
52	PIPE WITH TR & 2 STUBS	630 TO 864	21 TO 85	TRUNNION OD 184X49.5-1 SET & DIA 114-2, TRUNNION OD 184X49.5-1 SET & DIA 58-1 & 92-1	4
53	PIPE WITH TR & 3 STUBS	630 TO 864	21 TO 85	TRUNNION OD 184X49.5-1 SET, DIA 58-3, TRUNNION OD 218X21-1 SET, DIA 58-2 & 114-1	3
54	PIPE WITH TR & 4 STUBS	219.1 TO 406.4	25 TO 55	TRUNNION OD 184X49.5-1 SET, DIA 58-3 & 76-1, TRUNNION OD 118X34-1 SET, DIA 58-3 & 76-1	6
55	PIPE WITH TR & 6 STUBS	630 TO 864	21 TO 85	TRUNNION OD 218X21-1 SET, DIA 40-1, 58-1, 75-1, 88-2 & 92-1	2
	TOTAL				596

DATE

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ANNEXURE - C TO ENQUIRY 4601200031 DT. 21-11-12 DUE ON 05-12-12

SUPPLY STATUS OF ATTACHMENTS				
RAW MATERIAL/FINISHED	ATTACHMENT	Raw_Code	SPECIFICATION	STUB REMARKS
RAW MATERIAL	BOTTOM PL	159422530000	SA387GR22CL2	BOTTOM PL
FINISHED	CP 30X50X150	159581126000	SA335P91	CP 30X50X150
FINISHED	CP 40X50X170	159581136000	SA335P91	CP 40X50X170
FINISHED	DIA 100	925167240000	SA182F91	THERMOWELL OD 60.3 H 107
FINISHED	DIA 100	84TWSTU48099993109	SA182F22CL3	THERMOWELL OD 100
RAW MATERIAL	DIA 100	153394060000	SA182F91	THERMOWELL OD 100 H 101
FINISHED	DIA 100	84ST60N48099993161	SA182F22CL3	STUB OD 60.3
FINISHED	DIA 100	84TWSTU48099993108	SA182F22CL3	THERMOWELL OD 100 H 125
FINISHED	DIA 100	84STU6048099993162	SA182F22CL3	STUB OD 60.3
FINISHED	DIA 108	84TSTUB48099993097	SA182F22CL3	TEMP STUB D108
RAW MATERIAL	DIA 114	925167150000	SA182F91	TEMP STUB RC 1.5"
RAW MATERIAL	DIA 114	925167130000	SA182F91	TEMP STUB RC 1.5"
FINISHED	DIA 114	925167200000	SA182F91	TEMP STUB D114
FINISHED	DIA 114	84THSTN48099993150	SA182F22CL3	TEMP STUB D114
FINISHED	DIA 130	84STU8848099993154	SA182F22CL3	STUB OD 88.9
FINISHED	DIA 148	925167180000	SA182F91	STUB OD 88.9
FINISHED	DIA 40	925167230000	SA182F91	METAL TEMP
FINISHED	DIA 50	925167220000	SA182F91	METAL TEMP
FINISHED	DIA 50	84SWSAS48099997634	SA182F22CL3	SW NB 25 CL 6000
FINISHED	DIA 58	925167140000	SA182F91	SW NB 25 CL 9000
FINISHED	DIA 58	84SWSAS48099997635	SA182F22CL3	SW NB 25 CL 9000
FINISHED	DIA 75	925167210000	SA182F91	TEMP STUB D75
FINISHED	DIA 75	84TSTUN48099993131	SA182F22CL3	TEMP STUB D75 L 64
FINISHED	DIA 76	84THSTU48099993127	SA182F22CL3	TEMP STUB D76
FINISHED	DIA 84	84SWSAS48099997640	SA182F22CL3	SW NB 50 CL 6000
FINISHED	DIA 88	925167250000	SA182F91	THERMOWELL OD 60.3
FINISHED	DIA 90	925167280000	SA182F91	SW NB 50 CL 9000
FINISHED	DIA 90	84SWSAS48099997641	SA182F22CL3	SW NB 50 CL 9000
FINISHED	DIA 92	925167190000	SA182F91	STUB OD 60.3
FINISHED	ERV DIA 127	925167170000	SA182F91	ERV DIA 127
RAW MATERIAL	ERV DIA 139.7	920840930000	SA182F91	ERV DIA 139.7
FINISHED	ERV DIA 139.7	925166950000	SA182F91	ERV DIA 139.7
RAW MATERIAL	SUPPORT PIPE 219.1X25	159580586000	SA335P91	SUPPORT PIPE 219.1X25
RAW MATERIAL	SUPPORT PIPE 323.9X31	159580700000	SA335P91	SUPPORT PIPE 323.9X31
RAW MATERIAL	SUPPORT PIPE 610X20	159581236000	SA335P91	SUPPORT PIPE 610X20
FINISHED	SV DIA 190	925167520000	SA182F91	SV DIA 190
FINISHED	SV DIA 198	925167160000	SA182F91	SV DIA 198
FINISHED	SV DIA 254	925167530000	SA182F91	SV DIA 254
FINISHED	SV DIA 259	925167120000	SA182F91	SV DIA 259
FINISHED	TRUNNION OD 118X34	925166630000	SA182F91	TRUNNION OD 118X34
FINISHED	TRUNNION OD 118X34	925166640000	SA182F91	TRUNNION OD 118X34
FINISHED	TRUNNION OD 184X49.5	925166670000	SA182F91	TRUNNION OD 184X49.5
FINISHED	TRUNNION OD 184X49.5	925166680000	SA182F91	TRUNNION OD 184X49.5
FINISHED	TRUNNION OD 184X49.5	925166690000	SA182F91	TRUNNION OD 184X49.5
FINISHED	TRUNNION OD 184X49.5	925166660000	SA182F91	TRUNNION OD 184X49.5
RAW MATERIAL	TRUNNION OD 218X21	159580580000	SA335P91	TRUNNION OD 218X21
RAW MATERIAL	TRUNNION OD 270X23	159580550000	SA335P91	TRUNNION OD 270X23
RAW MATERIAL	TRUNNION OD 272X24.5	159580550000	SA335P91	TRUNNION OD 272X24.5
RAW MATERIAL	TRUNNION OD 322X30	159580700000	SA335P91	TRUNNION OD 322X30