



UDUPI COCHIN SHIPYARD LIMITED

# UDUPI COCHIN SHIPYARD LIMITED

Ministry of Ports, Shipping and Waterways,  
Government of India

## CONTRACT CELL DEPARTMENT

### **CORRIGENDUM - 1**

Tender No.: UCSSL/CC/T/TUG/294

Date: 17-10-2024

Sir,

### **CORRIGENDUM-1 – TENDER FOR PIPE SPOOL FABRICATION OF 70-TON BOLLARD PULL ASD-TUG**

1. The following terms of the subject tender is amended as follows:

<b>FOR</b>	<b>READ AS</b>
1. Annexure-I, <b>Clause No:2.3</b> , This is a turnkey job and any additional works up to 10% growth of work on the outfit items in terms of total weight / indicative total number of outfits is to be envisaged and is to be undertaken without any additional price impact.	1. Annexure-I, <b>Clause No:2.3</b> , This is a turnkey job and any additional works up to <b>7.5%</b> growth of work on the outfit items in terms of total weight / indicative total number of outfits is to be envisaged and is to be undertaken without any additional price impact.

2. Revised Indicative Bill of Materials (BOM) enclosed at Annexure-III-A.

3. Revised Price bid enclosed at Annexure-V-A.

4. Materials to be certified by IRS Class only.

5. Tender opening date;

<b>FOR</b>	<b>READ AS</b>
18 <sup>th</sup> October 2024 (Friday), 16:30 Hrs	28 <sup>th</sup> October 2024 (Monday), 15:30 Hrs

6. All the other terms and conditions of the tender enquiry remains unchanged.



For Udupi Cochin Shipyard Limited,

Assistant General Manager (Materials & Contract Cell)

सोणि क्लेमेन्ट टी एम  
SONY CLEMENT T M  
सहायक महापबंधक / ASSISTANT GENERAL MANAGER  
उदुपि कोचीन शिपयार्ड लिमिटेड  
UDUPI COCHIN SHIPYARD LIMITED  
माल्पे, कर्नाटक / MALPE, KARNATAKA-576 108



UDUPI COCHIN SHIPYARD LIMITED  
Tender for Pipe Spool Fabrication of 70 Ton Bollard Pull ASD-TUG  
UCSL/CC/T/TUG/294 DT: 08<sup>TH</sup> OCT 2024

## PART A

### FABRICATION QTY FOR CARBON STEEL & STAINLESS-STEEL PIPES

Category	Approx. Inch Diameter
<b>CLASS PIPES</b>	
Above 150 NB	70
100 NB to 150 NB	20
65 NB to 80 NB	70
32 NB to 50 NB	20
<b>CARBON STEEL PIPES</b>	
Above 150 NB	1200
100 NB to 150 NB	2700
65 NB to 80 NB	5400
32 NB to 50 NB	6600
<b>SS PIPES</b>	
Above 150 NB	20
100 NB to 150 NB	20
65 NB to 80 NB	30
32 NB to 50 NB	50
<b>TOTAL ESTIMATE</b>	<b>16200</b>





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## PART B

### GALVANISATION/PICKLING/PASSIVATION

SL. No	Description	Total Weight in Ton (A)
1	Hot Dip Galvanizing	30

**Note:**

1. Non-GI pipes inside and outside of pipe to be blasted upon completion.
2. Outside of pipe to be primer coated to avoid corrosion after completion.
3. **All ends to be properly closed with plastic end cap to avoid outside particles.**





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**PART C**  
**INDICATIVE BILL OF MATERIAL(BOM)**

<b>CLASS PIPE-CARBON STEEL</b>												
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Remarks
1	Seamless Pipe	25	33.4	XXS	9.09	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	Mtr	
2	Seamless Pipe	32	42.2	XXS	9.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	Mtr	
3	Seamless Pipe	50	60.3	XXS	11.07	A53 Gr B	CARBON STEEL	ASME B36.10	III	1.5	Mtr	
4	Seamless Pipe	65	73	XXS	14.02	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	Mtr	
5	Seamless Pipe	80	88.9	160	11.13	A53 Gr B	CARBON STEEL	ASME B36.10	III	1.5	Mtr	
6	Seamless Pipe	100	114.3	120	11.13	A53 Gr B	CARBON STEEL	ASME B36.10	III	1.5	Mtr	
7	Seamless Pipe	250	273	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	Mtr	
8	Seamless Pipe	550	559	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	Mtr	alternate SCH 80 28.58mm(t)

**Note:**

ABOVE MATERIALS TO BE CERTIFIED BY IRS CLASS.





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NON-CLASS CARBON STEEL												
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Remarks
1	Seamless Pipe	100	114.3	20	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	18	mtr	
2	Seamless Pipe	125	141.3	20	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	24	mtr	
3	Seamless Pipe	450	457	20	7.92	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	mtr	
4	Seamless Pipe	32	42.2	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	150	mtr	
5	Seamless Pipe	40	48.3	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	300	mtr	
6	Seamless Pipe	50	60.3	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	300	mtr	
7	Seamless Pipe	65	73	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	120	mtr	
8	Seamless Pipe	80	88.9	40	5.49	A53 Gr B	CARBON STEEL	ASME B36.10	III	180	mtr	
9	Seamless Pipe	100	114.3	40	6.02	A53 Gr B	CARBON STEEL	ASME B36.10	III	66	mtr	
10	Seamless Pipe	150	168.3	40	7.11	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	mtr	
11	Seamless Pipe	32	42.2	80	4.85	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	mtr	





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NON-CLASS CARBON STEEL												
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Remarks
12	Seamless Pipe	40	48.3	80	5.08	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	mtr	
13	Seamless Pipe	50	60.3	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	200	mtr	
14	Seamless Pipe	65	73	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	120	mtr	
15	Seamless Pipe	80	88.9	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	96	mtr	
16	Seamless Pipe	100	114.3	80	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	142	mtr	
17	Seamless Pipe	125	141.3	80	9.53	A53 Gr B	CARBON STEEL	ASME B36.10	III	12	mtr	
18	Seamless Pipe	150	168.3	80	10.97	A53 Gr B	CARBON STEEL	ASME B36.10	III	20	mtr	
19	Seamless Pipe	250	273	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	18	mtr	
20	Seamless Pipe	300	323.8	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	mtr	
21	Seamless Pipe	350	355.6	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	18	mtr	
22	Seamless Pipe	400	406.4	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	mtr	
23	Seamless Pipe	500	508	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	mtr	Alternate SCH 80





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CARBON STEEL FITTING											
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM
1	Concentric Reducer	550x400	-	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
2	Concentric Reducer	500x350	-	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No
3	Elbow 90 degree 1.5D	500	508	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
4	Elbow 90 degree 1.5D	450	457	20	7.92	A53 Gr B	CARBON STEEL	ASME B36.10	III	7	No
5	Elbow 45 degree 1.5D	450	457	20	7.92	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No
6	Elbow 90 degree 1.5D	400	406.4	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
7	Concentric Reducer	350x150	-	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No
8	Elbow 90 degree 1.5D	350	355.6	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No
9	Elbow 45 degree 1.5D	350	355.6	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
10	Concentric Reducer	250x150	-	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No
11	Elbow 90 degree 1.5D	250	273	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	5	No
12	Elbow 90 degree 1.5D	150	168.3	80	10.97	A53 Gr B	CARBON STEEL	ASME B36.10	III	16	No
13	Elbow 45 degree 1.5D	150	168.3	80	10.97	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	No



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### CARBON STEEL FITTING

SL. No	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM
14	Concentric Reducer	150x100	-	80	10.97	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No
15	Concentric Reducer	150x80	-	80	10.97	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
16	Concentric Reducer	125x80	141.3	80	9.53	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
17	Elbow 90 degree 1.5D	125	141.3	80	9.53	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	No
18	Elbow 45 degree 1.5D	125	141.3	80	9.53	A53 Gr B	CARBON STEEL	ASME B36.10	III	4	No
19	Elbow 90 degree 1.5D	125	141.3	20	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No
20	Elbow 45 degree 1.5D	125	141.3	20	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	8	No
21	Concentric Reducer	100x80	-	80	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	11	No
22	Concentric Reducer	100x80	-	40	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No
23	Concentric Reducer	100x65	-	80	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	4	No
24	Concentric Reducer	100x65	-	40	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	11	No
25	Elbow 90 degree 1.5D	100	114.3	20	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	7	No
27	Elbow 90 degree 1.5D	100	114.3	40	6.02	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	No







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<b>CARBON STEEL FITTING</b>											
<b>SL. No.</b>	<b>Item Description</b>	<b>Size</b>	<b>OD</b>	<b>Sch</b>	<b>Thickness</b>	<b>Material</b>	<b>Material Category</b>	<b>Standard</b>	<b>Class</b>	<b>Qty</b>	<b>UOM</b>
29	Elbow 90 degree 1.5D	100	114.3	80	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	120	No
30	Elbow 45 degree 1.5D	100	114.3	80	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	4	No
31	Concentric Reducer	80x65	-	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	5	No
32	Concentric Reducer	80x50	-	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	20	No
33	Concentric Reducer	80x40	-	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	9	No
34	Concentric Reducer	80x32	-	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
36	Concentric Reducer	80x50	-	40	5.49	A53 Gr B	CARBON STEEL	ASME B36.10	III	4	No
39	Elbow 90 degree 1.5D	80	88.9	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	No
41	Elbow 90 degree 1.5D	80	88.9	40	5.49	A53 Gr B	CARBON STEEL	ASME B36.10	III	200	No
43	Sleeve	80	-	-	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	32	No
44	Concentric Reducer	65x50	-	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No
45	Concentric Reducer	65x40	-	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No
46	Concentric Reducer	65x32	-	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	3	No





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CARBON STEEL FITTING											
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM
47	Concentric Reducer	65x25	-	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
48	Concentric Reducer	65x50	-	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	5	No
49	Concentric Reducer	65x40	-	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No
50	Concentric Reducer	65x32	-	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
52	Elbow 90 degree 1.5D	65	73	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	80	No
53	Elbow 45 degree 1.5D	65	73	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	40	No
54	Elbow 90 degree 1.5D	65	73	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	110	No
55	Elbow 45 degree 1.5D	65	73	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	40	No
56	Concentric Reducer	50x40	-	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	5	No
57	Concentric Reducer	50x32	-	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	4	No
58	Concentric Reducer	50x25	-	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No
59	Concentric Reducer	50x40	-	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
60	Concentric Reducer	50x32	-	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	No
61	Concentric Reducer	50x25	-	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	3	No



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<b>CARBON STEEL FITTING</b>											
<b>SL. No.</b>	<b>Item Description</b>	<b>Size</b>	<b>OD</b>	<b>Sch</b>	<b>Thickness</b>	<b>Material</b>	<b>Material Category</b>	<b>Standard</b>	<b>Class</b>	<b>Qty</b>	<b>UOM</b>
62	Elbow 90 degree 1.5D	50	60.3	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	70	No
63	Elbow 45 degree 1.5D	50	60.3	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	50	No
64	Elbow 90 degree 1.5D	50	60.3	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	260	No
65	Elbow 45 degree 1.5D	50	60.3	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	120	No
66	Concentric Reducer	40x32	-	80	5.08	A53 Gr B	CARBON STEEL	ASME B36.10	III	8	No
67	Concentric Reducer	40x25	-	80	5.08	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No
68	Concentric Reducer	40x20	-	80	5.08	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No
69	Concentric Reducer	40x15	-	80	5.08	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No
70	Concentric Reducer	40x32	-	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	12	No
71	Concentric Reducer	40x25	-	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	7	No
72	Concentric Reducer	40x20	-	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
73	Concentric Reducer	40x15	-	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	3	No
76	Elbow 90 degree 1.5D	40	48.3	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	230	No



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<b>CARBON STEEL FITTING</b>											
<b>SL. No.</b>	<b>Item Description</b>	<b>Size</b>	<b>OD</b>	<b>Sch</b>	<b>Thickness</b>	<b>Material</b>	<b>Material Category</b>	<b>Standard</b>	<b>Class</b>	<b>Qty</b>	<b>UOM</b>
77	Elbow 45 degree 1.5D	40	48.3	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	No
81	Concentric Reducer	32x25	-	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	8	No
82	Concentric Reducer	32x20	-	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No
83	Concentric Reducer	32x15	-	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	5	No
84	Elbow 90 degree 1.5D	32	42.2	80	4.85	A53 Gr B	CARBON STEEL	ASME B36.10	III	25	No
85	Elbow 45 degree 1.5D	32	42.2	80	4.85	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No
86	Elbow 90 degree 1.5D	32	42.2	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	No
87	Elbow 45 degree 1.5D	32	42.2	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	30	No





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<b>MS FLANGE</b>									
<b>SL. No.</b>	<b>Item Description</b>	<b>Size</b>	<b>Material</b>	<b>Material Category</b>	<b>Standard</b>	<b>Rating</b>	<b>Class</b>	<b>Qty</b>	<b>UOM</b>
1	Slip On Flange	500	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	2	No
2	Slip On Flange	450	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	8	No
3	Slip On Flange	400	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN16	III	3	No
4	Slip On Flange	350	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	16	No
5	Slip On Flange	300	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	5	No
6	Slip On Flange	250	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	10	No
7	Slip On Flange	250	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	6	No
8	Slip On Flange	150	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	7	No
9	Slip On Flange	150	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	12	No
10	Slip On Flange	125	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	16	No
11	Slip On Flange	125	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	22	No
12	Slip On Flange	100	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	300	No
13	Slip On Flange	100	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	42	No
14	Slip On Flange	80	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	40	No
15	Slip On Flange	80	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	175	No
16	Slip On Flange	80	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	300	No
17	Slip On Flange	65	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	8	No
18	Slip On Flange	65	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	190	No
19	Slip On Flange	65	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	330	No
20	Slip On Flange	50	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	50	No
21	Slip On Flange	50	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	60	No
22	Slip On Flange	50	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	750	No
23	Weld Neck Flange	40	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN40	III	20	No
24	Slip On Flange	40	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	22	No
25	Slip On Flange	40	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	100	No
26	Slip On Flange	40	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	500	No
27	Slip On Flange	32	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN16	III	2	No
28	Slip On Flange	32	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	70	No
29	Slip On Flange	32	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	240	No





UDUPI COCHIN SHIPYARD LIMITED  
Tender for Pipe Spool Fabrication of 70 Ton Bollard Pull ASD-TUG  
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SS PIPE												
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Remarks
1	Seamless Pipe	40	48	40	3.68	SS316L	STAINLESS STEEL	ASME B36.19M	III	12	mtr	
2	Seamless Pipe	50	60	40	3.91	SS316L	STAINLESS STEEL	ASME B36.19M	III	24	mtr	
3	Seamless Pipe	50	60	80	5.54	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	mtr	
4	Seamless Pipe	65	73	40	5.16	SS316L	STAINLESS STEEL	ASME B36.19M	III	12	mtr	
5	Seamless Pipe	65	73	80	7.01	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	mtr	
6	Seamless Pipe	80	89	40	5.49	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	mtr	
7	Seamless Pipe	100	114	10	3.01	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	mtr	ALTERNATE SCH 20
8	Seamless Pipe	125	141	10	3.4	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	mtr	ALTERNATE SCH 20
9	Seamless Pipe	450	457	10	4.78	SS316L	STAINLESS STEEL	ASME B36.19M	III	12	mtr	ALTERNATE SCH 20





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Tender for Pipe Spool Fabrication of 70 Ton Bollard Pull ASD-TUG  
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<b>SS FITTING</b>											
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM
1	Concentric Reducer	80X50	-	40	5.49	SS316L	STAINLESS STEEL	ASME B36.19M	III	1	No
2	Concentric Reducer	50X25	-	40	3.91	SS316L	STAINLESS STEEL	ASME B36.19M	III	1	No
3	Concentric Reducer	40X32	-	40	3.68	SS316L	STAINLESS STEEL	ASME B36.19M	III	2	No
4	Concentric Reducer	40X25	-	40	3.68	SS316L	STAINLESS STEEL	ASME B36.19M	III	1	No
5	Elbow 90 degree 1.5D	450	457	10	4.78	SS316L	STAINLESS STEEL	ASME B36.19M	III	2	No
6	Elbow 90 degree 1.5D	125	141	10	3.4	SS316L	STAINLESS STEEL	ASME B36.19M	III	2	No
7	Elbow 90 degree 1.5D	100	114	10	3.01	SS316L	STAINLESS STEEL	ASME B36.19M	III	1	No
8	Elbow 90 degree 1.5D	65	73	40	5.16	SS316L	STAINLESS STEEL	ASME B36.19M	III	4	No
9	Elbow 90 degree 1.5D	50	60	80	5.54	SS316L	STAINLESS STEEL	ASME B36.19M	III	4	No
10	Elbow 90 degree 1.5D	50	60	40	3.91	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	No
11	Elbow 45 degree 1.5D	50	60	40	3.91	SS316L	STAINLESS STEEL	ASME B36.19M	III	5	No

<b>SS FLANGE</b>										
SL. No.	Item Description	Size	Material	Material Category	Standard	Rating	Class	Qty	UOM	
1	Slip On Flange	450	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	2	No	
2	Slip On Flange	125	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	2	No	
3	Slip On Flange	100	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	1	No	
4	Slip On Flange	65	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	20	No	
5	Slip On Flange	50	SS316L	STAINLESS STEEL	EN1092-1	PN25	III	10	No	
6	Slip On Flange	50	SS316L	STAINLESS STEEL	EN1092-1	PN10	III	30	No	
7	Slip On Flange	50	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	10	No	
8	Slip On Flange	40	SS316L	STAINLESS STEEL	EN1092-1	PN10	III	15	No	
9	Slip On Flange	40	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	15	No	





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PENETRATION SLEEVES					
SL. No.	Line Size	Sleeve Size	MATERIALS		Qty
			Carbon Steel	SS 316L	
1	DN32	DN50 7.14 mm	7		7
2	DN40	DN50 SCH40	51	1	52
3	DN50	DN65 SCH40	37	5	42
4	DN65	DN80 SCH40	32	4	36
5	DN80	DN100 SCH120	24		24
6	DN100	DN125 SCH120	10		10
7	DN125	DN150 SCH80	1		1
8	DN350	ROLLED PLATE 10mm	2		2

**Note:**

1. Where IRS certificate is indicated, the item is to be certified by class as required and the proof for the same need to be submitted at UCSL with the materials.
2. This is a turnkey job and any additional works up to 7.5% growth of work on the material and spool fabrication in terms of total quantity of material and spools is to be envisaged and is to be undertaken without any additional price impact.







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**UCSL/CC/T/TUG/294 DT: 08<sup>TH</sup> OCTOBER 2024**

**TENDER FOR PIPE SPOOL FABRICATION OF 70T BOLLARD PULL  
ASD-TUG**

**PRICE BID**

Sl. No.	Work Description	UOM	Amount-INR
1	<b>PART A-</b> FABRICATION RATE FOR CARBON STEEL & STAINLESS-STEEL PIPES	LS	
2	<b>PART B</b> -RATE FOR GALVANISATION/PICKLING/PASSIVATION	LS	
3	<b>PART C-</b> BILL OF MATERIAL(BOQ)	LS	
4	<b>Total Amount:</b>		
5	<b>IGST/GST @.....:</b>		
6	<b>Grand Total Amount:</b>		
Grand total in words:			

Signature:

Address of the contractor:

**Note:**

- L1 will be determined based on the value quoted at Sl. No. 04.
- The bidder should also fill the rate in Annexure-V (Page no: 02 to Page No.:17), but the same will not be considered for L1 determination.





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## PART A

### FABRICATION RATE FOR CARBON STEEL & STAINLESS-STEEL PIPES

Category	Approx. Inch Diameter (A)	Unit rate (B)	Total Rate (C=A*B)
<b>CLASS PIPES</b>			
Above 150 NB	70		
100 NB to 150 NB	20		
65 NB to 80 NB	70		
32 NB to 50 NB	20		
<b>CARBON STEEL PIPES</b>			
Above 150 NB	1200		
100 NB to 150 NB	2700		
65 NB to 80 NB	5400		
32 NB to 50 NB	6600		
<b>SS PIPES</b>			
Above 150 NB	20		
100 NB to 150 NB	20		
65 NB to 80 NB	30		
32 NB to 50 NB	50		
<b>TOTAL ESTIMATE</b>	<b>16200</b>	<b>TOTAL AMOUNT</b>	





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## PART B

### RATE FOR GALVANISATION/PICKLING/PASSIVATION

SL. No	Description	Total Weight in Ton (A)	Unit Rate/Ton (B)	Total Amount (C=A*B)
1	Hot Dip Galvanizing	30		Rs..... (Per Ton)





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**PART C**  
**INDICATIVE BILL OF MATERIAL(BOM)**

CLASS PIPE-CARBON STEEL													
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Unit Price	Amount
1	Seamless Pipe	25	33.4	XXS	9.09	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	Mtr		
2	Seamless Pipe	32	42.2	XXS	9.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	Mtr		
3	Seamless Pipe	50	60.3	XXS	11.07	A53 Gr B	CARBON STEEL	ASME B36.10	III	1.5	Mtr		
4	Seamless Pipe	65	73	XXS	14.02	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	Mtr		
5	Seamless Pipe	80	88.9	160	11.13	A53 Gr B	CARBON STEEL	ASME B36.10	III	1.5	Mtr		
6	Seamless Pipe	100	114.3	120	11.13	A53 Gr B	CARBON STEEL	ASME B36.10	III	1.5	Mtr		
7	Seamless Pipe	250	273	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	Mtr		
8	Seamless Pipe	550	559	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	Mtr		





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### NON-CLASS CARBON STEEL

SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Unit Price	Amount
1	Seamless Pipe	100	114.3	20	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	18	mtr		
2	Seamless Pipe	125	141.3	20	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	24	mtr		
3	Seamless Pipe	450	457	20	7.92	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	mtr		
4	Seamless Pipe	32	42.2	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	150	mtr		
5	Seamless Pipe	40	48.3	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	300	mtr		
6	Seamless Pipe	50	60.3	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	300	mtr		
7	Seamless Pipe	65	73	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	120	mtr		
8	Seamless Pipe	80	88.9	40	5.49	A53 Gr B	CARBON STEEL	ASME B36.10	III	180	mtr		
9	Seamless Pipe	100	114.3	40	6.02	A53 Gr B	CARBON STEEL	ASME B36.10	III	66	mtr		
10	Seamless Pipe	150	168.3	40	7.11	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	mtr		
11	Seamless Pipe	32	42.2	80	4.85	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	mtr		





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NON-CLASS CARBON STEEL													
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Unit Price	Amount
12	Seamless Pipe	40	48.3	80	5.08	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	mtr		
13	Seamless Pipe	50	60.3	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	200	mtr		
14	Seamless Pipe	65	73	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	120	mtr		
15	Seamless Pipe	80	88.9	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	96	mtr		
16	Seamless Pipe	100	114.3	80	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	142	mtr		
17	Seamless Pipe	125	141.3	80	9.53	A53 Gr B	CARBON STEEL	ASME B36.10	III	12	mtr		
18	Seamless Pipe	150	168.3	80	10.97	A53 Gr B	CARBON STEEL	ASME B36.10	III	20	mtr		
19	Seamless Pipe	250	273	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	18	mtr		
20	Seamless Pipe	300	323.8	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	mtr		
21	Seamless Pipe	350	355.6	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	18	mtr		
22	Seamless Pipe	400	406.4	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	mtr		
23	Seamless Pipe	500	508	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	mtr		
Total Amount:													





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CARBON STEEL FITTING													
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Unit Rate	Amount
1	Concentric Reducer	550x400	-	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
2	Concentric Reducer	500x350	-	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No		
3	Elbow 90 degree 1.5D	500	508	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
4	Elbow 90 degree 1.5D	450	457	20	7.92	A53 Gr B	CARBON STEEL	ASME B36.10	III	7	No		
5	Elbow 45 degree 1.5D	450	457	20	7.92	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No		
6	Elbow 90 degree 1.5D	400	406.4	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
7	Concentric Reducer	350x150	-	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No		
8	Elbow 90 degree 1.5D	350	355.6	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No		
9	Elbow 45 degree 1.5D	350	355.6	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
10	Concentric Reducer	250x150	-	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No		
11	Elbow 90 degree 1.5D	250	273	XS	12.7	A53 Gr B	CARBON STEEL	ASME B36.10	III	5	No		
12	Elbow 90 degree 1.5D	150	168.3	80	10.97	A53 Gr B	CARBON STEEL	ASME B36.10	III	16	No		
13	Elbow 45 degree 1.5D	150	168.3	80	10.97	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	No		





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CARBON STEEL FITTING													
SL. No	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Unit Rate	Amount
14	Concentric Reducer	150x100	-	80	10.97	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No		
15	Concentric Reducer	150x80	-	80	10.97	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
16	Concentric Reducer	125x80	141.3	80	9.53	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
17	Elbow 90 degree 1.5D	125	141.3	80	9.53	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	No		
18	Elbow 45 degree 1.5D	125	141.3	80	9.53	A53 Gr B	CARBON STEEL	ASME B36.10	III	4	No		
19	Elbow 90 degree 1.5D	125	141.3	20	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No		
20	Elbow 45 degree 1.5D	125	141.3	20	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	8	No		
21	Concentric Reducer	100x80	-	80	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	11	No		
22	Concentric Reducer	100x80	-	40	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No		
23	Concentric Reducer	100x65	-	80	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	4	No		
24	Concentric Reducer	100x65	-	40	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	11	No		
25	Elbow 90 degree 1.5D	100	114.3	20	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	7	No		
27	Elbow 90 degree 1.5D	100	114.3	40	6.02	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	No		







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### CARBON STEEL FITTING

SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Unit Rate	Amount
29	Elbow 90 degree 1.5D	100	114.3	80	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	120	No		
30	Elbow 45 degree 1.5D	100	114.3	80	8.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	4	No		
31	Concentric Reducer	80x65	-	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	5	No		
32	Concentric Reducer	80x50	-	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	20	No		
33	Concentric Reducer	80x40	-	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	9	No		
34	Concentric Reducer	80x32	-	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
36	Concentric Reducer	80x50	-	40	5.49	A53 Gr B	CARBON STEEL	ASME B36.10	III	4	No		
39	Elbow 90 degree 1.5D	80	88.9	80	7.62	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	No		
41	Elbow 90 degree 1.5D	80	88.9	40	5.49	A53 Gr B	CARBON STEEL	ASME B36.10	III	200	No		
43	Sleeve	80	-	-	-	A53 Gr B	CARBON STEEL	ASME B36.10	III	32	No		
44	Concentric Reducer	65x50	-	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No		
45	Concentric Reducer	65x40	-	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No		
46	Concentric Reducer	65x32	-	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	3	No		





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### CARBON STEEL FITTING

SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Unit Rate	Amount
47	Concentric Reducer	65x25	-	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
48	Concentric Reducer	65x50	-	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	5	No		
49	Concentric Reducer	65x40	-	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No		
50	Concentric Reducer	65x32	-	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
52	Elbow 90 degree 1.5D	65	73	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	80	No		
53	Elbow 45 degree 1.5D	65	73	80	7.01	A53 Gr B	CARBON STEEL	ASME B36.10	III	40	No		
54	Elbow 90 degree 1.5D	65	73	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	110	No		
55	Elbow 45 degree 1.5D	65	73	40	5.16	A53 Gr B	CARBON STEEL	ASME B36.10	III	40	No		
56	Concentric Reducer	50x40	-	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	5	No		
57	Concentric Reducer	50x32	-	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	4	No		
58	Concentric Reducer	50x25	-	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No		
59	Concentric Reducer	50x40	-	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
60	Concentric Reducer	50x32	-	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	6	No		
61	Concentric Reducer	50x25	-	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	3	No		





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CARBON STEEL FITTING													
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Unit Rate	Amount
62	Elbow 90 degree 1.5D	50	60.3	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	70	No		
63	Elbow 45 degree 1.5D	50	60.3	80	5.54	A53 Gr B	CARBON STEEL	ASME B36.10	III	50	No		
64	Elbow 90 degree 1.5D	50	60.3	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	260	No		
65	Elbow 45 degree 1.5D	50	60.3	40	3.91	A53 Gr B	CARBON STEEL	ASME B36.10	III	120	No		
66	Concentric Reducer	40x32	-	80	5.08	A53 Gr B	CARBON STEEL	ASME B36.10	III	8	No		
67	Concentric Reducer	40x25	-	80	5.08	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No		
68	Concentric Reducer	40x20	-	80	5.08	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No		
69	Concentric Reducer	40x15	-	80	5.08	A53 Gr B	CARBON STEEL	ASME B36.10	III	2	No		
70	Concentric Reducer	40x32	-	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	12	No		
71	Concentric Reducer	40x25	-	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	7	No		
72	Concentric Reducer	40x20	-	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
73	Concentric Reducer	40x15	-	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	3	No		
76	Elbow 90 degree 1.5D	40	48.3	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	230	No		





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CARBON STEEL FITTING													
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Unit Rate	Amount
77	Elbow 45 degree 1.5D	40	48.3	40	3.68	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	No		
81	Concentric Reducer	32x25	-	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	8	No		
82	Concentric Reducer	32x20	-	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	1	No		
83	Concentric Reducer	32x15	-	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	5	No		
84	Elbow 90 degree 1.5D	32	42.2	80	4.85	A53 Gr B	CARBON STEEL	ASME B36.10	III	25	No		
85	Elbow 45 degree 1.5D	32	42.2	80	4.85	A53 Gr B	CARBON STEEL	ASME B36.10	III	10	No		
86	Elbow 90 degree 1.5D	32	42.2	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	100	No		
87	Elbow 45 degree 1.5D	32	42.2	40	3.56	A53 Gr B	CARBON STEEL	ASME B36.10	III	30	No		
<b>Total Amount:</b>													

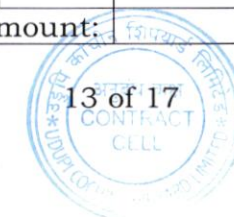




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### MS FLANGE

SL. No.	Item Description	Size	Material	Material Category	Standard	Rating	Class	Qty	UOM	Rate	Amount
1	Slip On Flange	500	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	2	No		
2	Slip On Flange	450	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	8	No		
3	Slip On Flange	400	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN16	III	3	No		
4	Slip On Flange	350	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	16	No		
5	Slip On Flange	300	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	5	No		
6	Slip On Flange	250	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	10	No		
7	Slip On Flange	250	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	6	No		
8	Slip On Flange	150	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	7	No		
9	Slip On Flange	150	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	12	No		
10	Slip On Flange	125	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	16	No		
11	Slip On Flange	125	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	22	No		
12	Slip On Flange	100	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	300	No		
13	Slip On Flange	100	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	42	No		
14	Slip On Flange	80	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	40	No		
15	Slip On Flange	80	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	175	No		
16	Slip On Flange	80	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	300	No		
17	Slip On Flange	65	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	8	No		
18	Slip On Flange	65	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	190	No		
19	Slip On Flange	65	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	330	No		
20	Slip On Flange	50	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	50	No		
21	Slip On Flange	50	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	60	No		
22	Slip On Flange	50	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	750	No		
23	Weld Neck Flange	40	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN40	III	20	No		
24	Slip On Flange	40	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN25	III	22	No		
25	Slip On Flange	40	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	100	No		
26	Slip On Flange	40	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	500	No		
27	Slip On Flange	32	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN16	III	2	No		
28	Slip On Flange	32	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN10	III	70	No		
29	Slip On Flange	32	IS 2062 Gr B	CARBON STEEL	EN1092-1	PN6	III	240	No		
Total Amount:											





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SS PIPE													
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Rate	Amount
1	Seamless Pipe	40	48	40	3.68	SS316L	STAINLESS STEEL	ASME B36.19M	III	12	mtr		
2	Seamless Pipe	50	60	40	3.91	SS316L	STAINLESS STEEL	ASME B36.19M	III	24	mtr		
3	Seamless Pipe	50	60	80	5.54	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	mtr		
4	Seamless Pipe	65	73	40	5.16	SS316L	STAINLESS STEEL	ASME B36.19M	III	12	mtr		
5	Seamless Pipe	65	73	80	7.01	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	mtr		
6	Seamless Pipe	80	89	40	5.49	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	mtr		
7	Seamless Pipe	100	114	10	3.01	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	mtr		
8	Seamless Pipe	125	141	10	3.4	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	mtr		
9	Seamless Pipe	450	457	10	4.78	SS316L	STAINLESS STEEL	ASME B36.19M	III	12	mtr		
												Total Amount:	





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SS FITTING													
SL. No.	Item Description	Size	OD	Sch	Thickness	Material	Material Category	Standard	Class	Qty	UOM	Rate	Amount
1	Concentric Reducer	80X50	-	40	5.49	SS316L	STAINLESS STEEL	ASME B36.19M	III	1	No		
2	Concentric Reducer	50X25	-	40	3.91	SS316L	STAINLESS STEEL	ASME B36.19M	III	1	No		
3	Concentric Reducer	40X32	-	40	3.68	SS316L	STAINLESS STEEL	ASME B36.19M	III	2	No		
4	Concentric Reducer	40X25	-	40	3.68	SS316L	STAINLESS STEEL	ASME B36.19M	III	1	No		
5	Elbow 90 degree 1.5D	450	457	10	4.78	SS316L	STAINLESS STEEL	ASME B36.19M	III	2	No		
6	Elbow 90 degree 1.5D	125	141	10	3.4	SS316L	STAINLESS STEEL	ASME B36.19M	III	2	No		
7	Elbow 90 degree 1.5D	100	114	10	3.01	SS316L	STAINLESS STEEL	ASME B36.19M	III	1	No		
8	Elbow 90 degree 1.5D	65	73	40	5.16	SS316L	STAINLESS STEEL	ASME B36.19M	III	4	No		
9	Elbow 90 degree 1.5D	50	60	80	5.54	SS316L	STAINLESS STEEL	ASME B36.19M	III	4	No		
10	Elbow 90 degree 1.5D	50	60	40	3.91	SS316L	STAINLESS STEEL	ASME B36.19M	III	6	No		
11	Elbow 45 degree 1.5D	50	60	40	3.91	SS316L	STAINLESS STEEL	ASME B36.19M	III	5	No		
Total Amount:													





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<b>SS FLANGE</b>											
<b>SL. No.</b>	<b>Item Description</b>	<b>Size</b>	<b>Material</b>	<b>Material Category</b>	<b>Standard</b>	<b>Rating</b>	<b>Class</b>	<b>Qty</b>	<b>UOM</b>	<b>Rate</b>	<b>Amount</b>
1	Slip On Flange	450	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	2	No		
2	Slip On Flange	125	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	2	No		
3	Slip On Flange	100	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	1	No		
4	Slip On Flange	65	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	20	No		
5	Slip On Flange	50	SS316L	STAINLESS STEEL	EN1092-1	PN25	III	10	No		
6	Slip On Flange	50	SS316L	STAINLESS STEEL	EN1092-1	PN10	III	30	No		
7	Slip On Flange	50	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	10	No		
8	Slip On Flange	40	SS316L	STAINLESS STEEL	EN1092-1	PN10	III	15	No		
9	Slip On Flange	40	SS316L	STAINLESS STEEL	EN1092-1	PN6	III	15	No		
Total Amount:											







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PENETRATION SLEEVES								
SL. No.	Line Size	Sleeve Size	MATERIALS				Total Qty	Amount
			Carbon Steel	Unit Rate	SS 316L	Unit Rate		
1	DN32	DN50 7.14 mm	7		-	-	7	
2	DN40	DN50 SCH40	51		1		52	
3	DN50	DN65 SCH40	37		5		42	
4	DN65	DN80 SCH40	32		4		36	
5	DN80	DN100 SCH120	24		-	-	24	
6	DN100	DN125 SCH120	10		-	-	10	
7	DN125	DN150 SCH80	1		-	-	1	
8	DN350	ROLLED PLATE 10mm	2		-	-	2	
Total Amount:								

