



# UDUPI COCHIN SHIPYARD LIMITED

Malpe Harbour Complex, Malpe,  
Udupi, Karnataka – 576 108, India.  
Tel – 0820 2538604

## MATERIALS DEPARTMENT

**CORRIGENDUM - 1 dated 10.11.2023**

### CHANGE IN TECHNICAL SPECIFICATION & EXTENSION OF TENDER OPENING DATE

Tender No.: UCSL/MAT/2023-24/589

Date: 10.11.2023

Sir,

### CORRIGENDUM - 1 dated 10.11.2023 - TENDER FOR SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF PIPE BENDING MACHINE FOR SHIPYARD APPLICATIONS

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

#### 1. Technical Specification

For

Reference Clause	Page No	Clause Description																																																				
Technical Specification Clause No. Principal Particulars 3.1.2 (c)	9	The machine should bend following ferrous and non-ferrous pipes to 2 D, 3 D bend radius as detailed below:  Pipes to be bend with details of bending radius:  <u>FERROUS AND STAINLESS STEEL:</u>  (As per standards IS:1239, ASTM A 53, A312 grade TP316L & A 106, ANSI B16 Dimension-ANSI 36.10)																																																				
		<table border="1"><thead><tr><th rowspan="2">Pipe NB (mm)</th><th rowspan="2">Pipe OD (mm)</th><th colspan="2">Thickness (mm)</th><th colspan="2">Bending Radius (mm)</th></tr><tr><th>Sch.40</th><th>Sch.80</th><th>2 D</th><th>3 D</th></tr></thead><tbody><tr><td>15</td><td>21.3</td><td>2.77</td><td>3.79</td><td>50</td><td>65</td></tr><tr><td>20</td><td>26.7</td><td>2.87</td><td>3.91</td><td>55</td><td>80</td></tr><tr><td>25</td><td>33.4</td><td>3.38</td><td>4.55</td><td>70</td><td>100</td></tr><tr><td>32</td><td>42.2</td><td>3.56</td><td>4.85</td><td>85</td><td>125</td></tr><tr><td>40</td><td>48.3</td><td>3.7</td><td>5.1</td><td>100</td><td>150</td></tr><tr><td>50</td><td>60.3</td><td>3.9</td><td>5.5</td><td>120</td><td>180</td></tr><tr><td>65</td><td>76.1</td><td>5.2</td><td>7.0</td><td>160</td><td>230</td></tr></tbody></table>	Pipe NB (mm)	Pipe OD (mm)	Thickness (mm)		Bending Radius (mm)		Sch.40	Sch.80	2 D	3 D	15	21.3	2.77	3.79	50	65	20	26.7	2.87	3.91	55	80	25	33.4	3.38	4.55	70	100	32	42.2	3.56	4.85	85	125	40	48.3	3.7	5.1	100	150	50	60.3	3.9	5.5	120	180	65	76.1	5.2	7.0	160	230
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			65	73.0	5.16	7.0	160	230
			80	89.1	5.5	7.6	190	270
			100	114	6.02	8.56	225	350

Separate mandrel to be provided for MS & SS pipes considering material for schedule 40 and 80. For SS suitable bronze mandrel to be considered up to 80NB (mm).

**NON-FERROUS:**  
(Copper, Al.Brass, Cu Nickel) (As per BS2871 standard  
Dimension-BS2871 PART 2, Table 3/BR 3013 (2))

Pipe OD (mm)	Thickness (mm)		Bending Radius (mm)	
	STD	Other STD	2 D	3 D
44.5	1.5	2	90	150
57	1.5	2	120	180
76.1	2	2.5	160	230
88.9	2.5	3	190	270

**Read As**

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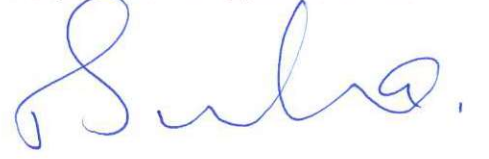
## 2. Last date of receipt of tender

Sl. No.	Description	FOR	READ AS
2	Last date for Receipt.	15 <sup>th</sup> November 2023, 15:30 Hrs	22 <sup>nd</sup> November 2023, 15:30 Hrs

Technical Bid Opening date.	15 <sup>th</sup> November 2023, 15:30 Hrs	22 <sup>nd</sup> November 2023, 15:30 Hrs
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Bidders may take note of the above changes and consider the same prior to quoting. All the other terms and conditions of the tender enquiry remains unchanged

For Udupi Cochin Shipyard Limited,



Assistant General Manager (Materials)

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