

CONTRACT CELL DEPARTMENT

CORRIGENDUM - 2

Tender No.: UCSL/CC/T/CIVIL/227

Date: 24.01.2024

Sir,

CORRIGENDUM-2 DATED 24.01.2024 - TENDER FOR CONSTRUCTION OF STRUCTURAL FOUNDATION & ROOF FOR AUTOMATED BLASTING MACHINE

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

1. Extension of Tender Opening Date:

FOR:

Tender No. & date	UCSL/CC/T/CIVIL/227 Dt.12th JAN 2024
Name of work	TENDER FOR CONSTRUCTION OF STRUCTURAL FOUNDATION & ROOF FOR AUTOMATED BLASTING MACHINE
Last date & time of receipt of tender	24 TH JANUARY 2024 (Wednesday), 15:30 Hrs.
Date & time of opening of Technical Bid (Part-I)	24 TH JANUARY 2024 (Wednesday), 15:30 Hrs.

READ AS:

Tender No. & date	UCSL/CC/T/CIVIL/227 Dt.12th JAN 2024
Name of work	TENDER FOR CONSTRUCTION OF STRUCTURAL FOUNDATION & ROOF FOR AUTOMATED BLASTING MACHINE
Last date & time of receipt of tender	29 TH JANUARY 2024 (Monday), 16:00 Hrs.
Date & time of opening of Technical Bid (Part-I)	29 TH JANUARY 2024 (Monday), 16:00 Hrs.



2. Revised BOQ of work.

FOR:

Annexure II BOQ Rev1

READ AS:

Annexure II BOQ Rev2 (enclosed)

3. 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 महाप्रबंधक/ASSISTANT GENERAL MANAGER
उडुपि कोचीन शिपयार्ड लिमिटेड
UDUPI COCHIN SHIPYARD LIMITED
माल्पे, कर्नाटक/MALPE, KARNATAKA-576 108



Name of work : AUTOMATIC SHOTBLASTING & PAINTING MACHINE, UDUPI
Place of work : UDUPI COCHIN SHIPYARD LIMITED

DETAILED ESTIMATION

Item No.	Description of work	No.	L	B	D	Quantity	Unit
1	Dismantling R.C.C. concrete work including breaking concrete by chiselling, wedging etc. including cutting the reinforcement, stacking the serviceable materials and the debris separately upto a distance of 50 metre or spreading the debris as directed etc.						
	RCC flooring	1	1.8	0.75	0.2	0.27	
		1	11.21	6.625	0.2	14.85325	
		1	4.4	6.7	0.2	5.896	
		1	11.6	3.8	0.2	8.816	
		1	2.8	2.8	0.2	1.568	
						31.40	Cu.m
2	Earth work excavation for Foundation by mechanical means for all works & depth upto 3 m, as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work						
		1	1.8	0.75	2	2.7	
		1	11.21	6.625	2	148.5325	
		1	4.4	6.7	2	58.96	
		1	11.6	3.8	2	88.16	
		1	2.8	2.8	2	15.68	
		10	1.8	1.8	2	64.80	
						378.83	Cu.m
3	Providing and laying stone boulders with proper sand filling and compacted layers upto 400mm including materials, compaction etc., complete.						
		1	1.8	0.75	0.2	0.27	
		1	11.21	6.625	0.2	14.85325	
		1	4.4	6.7	0.2	5.896	
		1	11.6	3.8	0.2	8.816	
		1	2.8	2.8	0.2	1.568	
		10	1.8	1.8	0.2	6.480	
						37.88	Cu.m
4	Soil back filling						
		1	1.8	0.75	1.15	1.5525	
		1	11.21	6.625	1.15	85.40619	
		1	11.6	3.8	1.46	64.3568	
		1	2.8	2.8	2.05	16.072	
						167.39	Cu.m



5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately) Page No.15, I.No-2.1.2- PWD-SR-2021-					
	PCC bed	1	1.8	0.75	0.075	0.10
		1	11.21	6.625	0.075	5.57
		1	3.78	5.57	0.075	1.58
		1	1.375	5.58	0.075	0.58
		1	4.4	6.7	0.075	2.21
		1	3.2	2.05	0.075	0.49
		1	5.7	3.77	0.075	1.61
		1	2.8	5.4	0.075	1.13
		1	2.8	2.8	0.075	0.59
	Flooring	1	11.5	3.7	0.075	3.19
	Steel roof	10	1.6	1.6	0.075	1.80
						18.85
						Cu.m
6	Providing and laying in position reinforced cement concrete of design mix M30 concrete mix ratio is a proportion of ingredients used to achieve a particular strength in concrete. The ratio is 1:0.75:1.5					
	Mat 1	1	1.6	0.75	0.25	0.30
		1	11.11	6.425	0.25	17.85
	Mat 3	1	3.15	1.95	0.25	1.54
		1	5.62	3.67	0.25	5.16
		1	2.7	5.3	0.25	3.58
	Mat 4	1	2.7	2.7	0.25	1.82
	Tank, Bottom slab	1	3.7	5.625	0.15	3.12
		1	1.275	5.54	0.15	1.06
		1	4.3	6.6	0.25	7.10
	C1	10	0.4	0.3	1.25	1.50
	C4	2	0.4	0.415	1.25	0.42
	C5	2	0.85	0.4	0.75	0.51
	C6	1	0.6	0.82	1.25	0.62
	C7	1	2.545		1.25	3.18
	C8	4	0.5	0.5	1.25	1.25
	C9	1	2.545		1.25	3.18
	C10	1	2.1	1.35	1.25	3.54
	C11	1	1.45	0.87	1.25	1.58
	C12	1	1.1	0.8	1.25	1.10
	Beam B2	2	4.25	0.35	0.4	1.19
	B3	1	1.328	0.3	0.4	0.16
		1	4	0.3	0.4	0.48
		1	2.41	0.3	0.4	0.29
		3	0.9	0.3	0.4	0.32
		2	1.36	0.3	0.4	0.33
	B4	2	4	0.5	0.500	2.00
	Retaining wall,	1	3.7	5.7	0.15	3.16
		1	1.275	5.54	0.15	1.06
		2	2.4	0.15	0.5	0.36
		1	5.625	0.15	0.5	0.42
		1	19	0.15	0.8	2.28
		2	5.726	0.15	1.25	2.15
		2	6.2	0.15	1.25	2.33
		1	7.6	0.15	1.25	1.43
		1	2.8	0.15	1.25	0.53
		2	3.4	0.2	2.4	3.26
		2	6	0.2	1.15	2.76
		2	3.5	0.2	1.25	1.75



	Slab,	S1	1	0.98	4.6	0.125	0.56	
		S2	1	0.92	0.9	0.250	0.21	
		Footing	10	1.45	1.45	0.400	8.41	
		Pedestal	10	0.45	0.45	1.100	2.23	
		Plinth beam	8	3.55	0.2	0.450	2.56	
							98.63	Cu.m
7	Providing Thermo-Mechanically Treated bars of grade Fe-500D or more Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position, binding and anchoring to adjacent members wherever necessary complete as per Design including cost of material, labour, usage charges complete as per specifications. (The laps and wastages shall not be measured separately)							
							10867.00	kg
8	BASE PLATE-(350x350x12THK)	10				11.54	115.4	kg
9	M16-ANCHOR BOLTS	40				0.7	28	kg
10	C1-SHS-(150x150x6THK)	10	7			26.4	1848	kg
		5	6			26.4	792	kg
		5	0.55			26.4	72.6	kg
		10	5.835			26.4	1540.44	kg
11	RHS-(80x40X3.2mm THK.)	72	4			5.5	1584	kg
12	ISA 50X50X4	72	0.2			3.06	44.064	kg
13	ROOF COVERING SHEET (0.50mm thk)	2	17.4	6.3			219.24	
	SIDE COVERING SHEET (0.50mm thk)	2	17.4			7	243.6	
		1	11.4			7	79.8	
							542.64	Sq.m
13	GUTTER (AS PER VENDOR DETAILS)	34.5					34.5	m
14	Waterproofing Works	1	5.6	3.7			20.7	Sq.m
		1	5.5	1.3			7.1	Sq.m
		2	9.3	0.8			14.9	Sq.m
		2	6.8	0.8			10.9	Sq.m
		1	6.0	3.7			22.2	Sq.m
		2	9.7	2.7			52.4	Sq.m
		1	5.1	1.5			7.6	Sq.m
		2	6.6	1.3			16.4	Sq.m
		1	1.3	2.8			3.6	Sq.m
		2	4.1	1.3			10.3	Sq.m
		1	2.4	2.8			6.7	Sq.m
		2	5.2	1.3			13.0	Sq.m
		1	3.5	1.5			5.3	Sq.m
		2	5.0	1.3			12.5	Sq.m
		1	2.4	1.4			3.4	Sq.m
		2	3.8	1.3			9.5	Sq.m
							216.3	Sq.m
								TOTAL



ADDITIONAL WORKS							
Construction of paint storage unit& Sludge storage, toilet							
14	Solid block masonry in CM1:6	2	9.0		2.7	48.6	Sqm
		5	3.0		2.7	40.5	Sqm
		1	1.8		2.7	4.9	Sqm
	Deductions-Doors	-3	1.0		2.1	-6.3	Sqm
						87.7	Sqm
15	Internal and external plastering					175.3	Sqm
16	Internal and external painting					175.3	Sqm
17	Providing and laying PCC	1	9.0	3.0	0.1	2.7	Cum
18	floor tiles	1	3.0	3.0		9.0	Sqm
	Wall tiles	4	3.3		1.5	19.8	Sqm
						28.8	Sqm
19	Roof	1.0	9.6	3.6		34.6	Sqm



Waterproofing methodology for acrylic PU based cementitious compound waterproofing for concrete and masonry

Description:

Application of Elastomeric flexible, two component acrylic modified cementitious coating applied by brush, roller or trowel to waterproof concrete & masonry.

Properties:

Density	1.7 ± 5% (Kg/m ³)
Mix ratio (Powder to liquid)	As per the manufacturers specification
Water penetration DIN 1048	5 bar, no leakage
Pot life @ 25°C	2 hours
@ 40°C	0.5 hours
Re-coatable time:	8-12 Hours
Elongation at Break (ASTMD 412- 2016)	>40%

Methodology:

1. Surface preparation

Surfaces should be sound, clean, and free from laitance, loose particles, oil and grease, old coatings, curing compounds or any other contaminants. Mechanical wire brushing must be used.

Proper coving to be done at the corners of the raft and wall before application.

2. Mixing and application

Compounds to be mixed on site utilizing clean containers. Mixing of the powder to the liquid compound to be done as per the manufacturer's specifications.

Saturate the concrete surfaces with clean water and apply the compound whilst still damp (saturated surface dry), using a short, stiff bristle brush or roller. Trowel application can be undertaken as necessary. Each coat must be of 1mm thickness. Second coat must be applied after previous coat has been dried. And application should be in the opposite direction of the previous coat. Average consumption 1.5-2 kg / m² at 1 mm thickness.

Apply plastering using cement: river sand in 1:3 on final cured coat of waterproofing compound and allow it to cure for 14 days. Plaster must be admixed with suitable waterproofing compound.

Approved makes:

1. BASF Chemicals
2. Fosroc
3. Sika India

Note:

Contractor must provide 10 years bonded warranty against any leakages or poor workmanship. (200rs. Stamp paper)



