

Bill Of Quantity

Name of Work: Special Repairs to godowns inside cargo jetty area

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
1	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:	32226.025		m2	One Square Metre	
	(a) A.C. sheet roofing.					
2	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead	36016.390		m3	One Cubic Metre	
3	Demolishing masonry work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.	231.820		m3	One Cubic Metre	

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
4	<p>Supplying and fixing of Colour coated profile sheet of nominal 1072 mm overall width and nominal 28.5 mm deep ribs with subtle square fluting in the five pan at nominal 203 mm Centre-to-Centre. The end rib shall be designed for anti-capillary action, to avoid any seepage of water through the lateral overlap. The feed material shall be of 0.69 mm Total Painted Thickness (0.60 mm BMT) Ultra steel- High tensile with min 550 MPa yield strength, metallic hot-dipped coated with Al-Zn alloy (55% Aluminium, 43.5% Zinc, 1.5% Si) as per AS1397 / IS15961 – ZINCALUME / GALVALUME AZ200 (min. 200 g/m2 total on both sides) with Super Durable Polyester steel Ultra quality paint system of approved color, suitable for exterior application conforming to AS/NZS 2728 type-4 / IS15965 class 3 of Tata BlueScope / Essar / JSW Steel make. The sheet shall have a total coating thickness of 40 microns, super durable polyester Ultra with solar reflectance technology quality paint system of 20 microns on exposed surface and 10 micron reverse polyester coat on back surface over 5 micron primer coat on both surfaces. The paint system would have stable resin & inorganic pigments for paint durability and is lead free for water harvesting. The steel sheet shall have brand marking of "Tata Blue Scope / JSW / Essar" on back side at regular interval confirming genuineness of the material. (PPGL)</p> <p>Including fixing the sheet on top sloping roof of storage shed having 10 to 12m height with self-driving screw of Stainless steel 12x50mm minimum size on existing purlins including wastage/overlapping complete as per the specifications and as directed by Engineer in charge. Sheet shall be fixed on sloping roof / vertical cladding including ridge, valley, corner, gable end, canopy, etc. as required at site.</p>	63054.040		m2	One Square Metre	
5	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	46174.840		Kg	One Kilogram	
6	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete. (Structural steel to be reused / supplied free of cost by DPT)	36016.390		Kg	One Kilogram	

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
7	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level :1:1½:3 (1 Cement: 1½ coarse sand : 3 graded stone aggregate 20 mm nominal size). including scrapping and cleaning the floor surface providing SBR 2litre per 10m2 coat before laying concrete. Complete as directed by Engineer in charge	6163.680		m3	One Cubic Metre	
8	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with :	463.640		m3	One Cubic Metre	
9	Providing & laying cement concrete solid blocks 1:8:6 (machine made) confirming to relevant IS (Latest Edition) masonry 200mm thick set in cement mortar 1:6 including curing etc. complete as directed.					
	Cement mortar 1:6 (1 cement : 6 coarse sand)	244.340		m3	One Cubic Metre	
10	Providing Asbestos cement 6 mm thick corrugated sheets (as per relevent IS) roofing up to any pitch and fixing with J, or L hooks, bolts and nuts 8 mm dia.G.I. plain and bitumen washers or with self drilling fastener and EPDM washers etc. complete (excluding the cost of purlins, rafters and trusses), including cutting sheets to size and shape wherever required.	13485.970		m2	One Square Metre	
11	Providing and fixing ridges and hips in Asbestos cement roofing with suitable fixing accessories or self drilling fastener and EPDM washer etc. complete	360.000		Rmt	One Running metre	

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
12	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscosity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3mm (for corrugated roof sheets)	8005.000		m2	One Square Metre	
13	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	5612.720		m2	One Square Metre	
14	Finishing walls with Acrylic Smooth exterior paint of required shade : New work or old surface (Two or more coat applied @ 1.67 ltr/10 sqm over and including	5612.720		m2	One Square Metre	
15	Removing oil paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1374.670		m2	One Square Metre	
16	Applying priming coat:With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works	3148.360		m2	One Square Metre	
17	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete On steel work	3148.360		m2	One Square Metre	

Sr. No.	Short Description	Qty	Rate	Unit	Unit in words	Amount
18	Floor painting with floor enamel paint of approved brand and manufacture of required colour to give an even shade :Two or more coats on new work or old surface	1600.000		m2	One Square Metre	

Total

Contractor

Executive Engineer (Harbour)