

Schedule of Quantities for Construction of Compound Wall and Miscellaneous repair works at SBILD, VIZIANAGARAM Andhra Pradesh					
S.No	Description of Item	Unit	Qty	Rate (Rs)	Amount (Rs)
1	Earth work in all soils with depth exceeding 1.5m and area exceeding 10Sq.m by hydraulic means/manual means with maximum lift of 3.0m and lead of 250m	Cum	71		
2	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level. 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	5		
3	Brick work with common burnt clay modular bricks of class designation 10.0 in exposed brick work including making horizontal and vertical grooves 10mm wide 12 mm deep complete in cement mortar 1:6 (1cement : 6 coarse sand). above plinth level	Cum	40		
4	Coursed rubble masonry with hard stone (first or second sort) in superstructure above plinth level and up to floor five level. Masonry work (second sort), in cement mortar 1:6 (1 cement:6 coarse sand)	Cum	36		
5	Providing 18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand).	Sq.mt	250		
6	Finishing walls with Acrylic Smooth exterior paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 Sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sq.mt	250		
7	Filling of pits with bricks bats of over burnt bricks bats	Cum	15		
8	Filling of pits with coarse aggregate of nominal size 20mm	Cum	4		
9	Construction of brick masonry in 1:4CM with dry joints	Cum	2		
10	Supplying fitting and fixing PVC pipes of 6	Mts	250		

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	kg/cm <sup>2</sup> (Supreme/Prince) or other ISI approved including joining fitting and fixing with clamps etc as necessary complete at all levels including below GL as directed and specified by Engineer-in-charge. (100/150 mm dia. pipes)				
11	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level for TMT bars of Fe500 grade	Kg	500		
12	Laying of RCC cover slabs with 1:1.5:3 with necessary curing and placing in position.	Cum	2		
13	Construction of Brick Masonry Manhole in cement mortar 1:4 with RCC Top slab with 1:2: 4 (with 20mm nominal size aggregate) with 40mm nominal size aggregate)and foundation concrete with 1:4:8 ( with 40mm nominal size aggregate) Inside plastering 12mm thick with CM 1:3 finished with floating coat of neat cement and making channels in cement concrete 1:2:4 finished with a floating coat of neat cement complete as per standard design. Inside size of chamber is 900mmx 800mm and 450mm deep including C.I cover with frame (light duty) 455x610mm internal dimension. Total weight of cover and frame to be not less than 38kg ( Weight of cover plate 23Kg and weight of frame is 15kg)	Nos	4		
14	Water proofing with slurry of hydrophilic in nature for water proofing treatment to the RCC structures like water tanks, roof slabs prepared by mixing in the ratio of 5:2 ( parts integral crystalline slurry:2parts water) for vertical surfaces and 3:1(3 Parts integral crystalline slurry: 1 part water) for horizontal surfaces and applying the same from negative(internal ) side with the help of synthetic fiber brush. The material should meet the requirements of ACI-212-3r-2010 i.e by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and	Mts	40		

	and resistant to 16 bar hydrostatic pressure on negative side. The crystalline slurry shall be capable of crack – healing of cracks up to a width of 0.5mm. The work shall be carried out all complete as per specification and the direction of the engineer-in-charge. The product performance shall carry guaranteed for 10 years against any leakage ( For Horizontal Surface)				
15	Same as above S.No 14 ( But for Vertical Surface)	Mts	30		
16	CRACK –FILLING: Providing and applying crystalline mortar by mixing in the ratio of 4.5 : 1 (4.5 parts crystalline mortar : 1 part water) for the treatment of faulty construction joints, cracks, tie rod holes and spalled & honeycombed surface of RCC structures like basement, water tanks etc. to ensure water tightness. The crystalline mortar shall conform to the EN 1504-3 having compressive strength Class R4 > 45 MPa and adhesive bond strength Class R3 > 1.5 MPa. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage. For sealing cracks and faulty construction joints, by preparing the surface, making U-shape groove size of 25x25mm and then priming the surface with integral crystalline slurry @0.05kg per running meter and while the surface is tacky then filling the groove up to top edge with crystalline mortar @1.50kg per running meter. Once crystalline mortar is touch dry then finally applying two coats of integral crystalline slurry @0.05kg per running meter per coat on treated surface.	Mts	100		
17	Supplying and placing in position 2000liters water tank	Nos	3		
18	18 Dismantling of existing water tank and carting away debris	Ls	1		
19	Providing and applying at all heights the	Sq.mt	100		

	<p>Premium emulsion ( water based 100% acrylic) <u>or</u> approved equivalent grade interior paint to all type of smooth plasters, concrete, false ceiling etc. surface. The surface to be painted shall be made free from any loose paint, dust , grease and any fungus, algae or moss on it shall got be removed/ sand thoroughly by emery paper 180 and wipe clean. Then one coat of interior grade wall primer be applied &amp; after which any surface imperfection such as holes, dents, fine cracks shall be corrected by filing with acrylic grade wall putty and entire surface is to be made level with one layer of putty. Thereafter sand the surface with emery paper 180 and wipe clean and apply second coat of interior grade wall primer and again surface imperfection to be corrected. Again sand the surface with emery paper 320 and wipe clean and then apply the tractor emulsion shyne painting in minimum of two coats to have shyne finish. All materials shall be of approved make. The color and pattern/ color combination of the paint shall be got approved from Engineer in Charge. The stock of the quantity for all material as per manufacturer's theoretical consumption (per unit of surface area) shall be made available at site before commencement of the painting work. The rate shall include cost of all material, labor, scaffolding, ladders charges, storing &amp; safeguarding the material etc all complete.</p>				
20	<p>Providing wood work in frame of doors, windows, and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embeded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified. Providing and fixing flush doors, 35 mm thick. of average size of 3'6"X7'-0"</p>	Nos	1		

	finished with 1.0 mm thick laminate on both the sides. Doors to be fixed with heavy duty door closer, with 1"dia and 15" long brush S.S.finish handle of approved make and door stopper to be provided. All complete including locks and necessary hardware etc.				
21	Providing and fixing UPVC/HPVC pipes complete with fittings and clamps, i/c cutting and making good the walls etc. 25 mm dia/15 mm dia	Mts	200		
	<b>Total</b>				
	<b>Discount if any (%)</b>				
	<b>NET TOTAL</b>				

**Signature of Contractor with Date and Seal**