

**SCHEDULE OF WORKS: B/R**

**Appendix 'A'**

**Station :** Sukna

**Name of work :** Provision of One x additional Classrooms at APS Sukna

S No	Name of work	Brief description of Items	Unit	Qty	Rate	Amount	Remarks
1	2	4	5	6	7	8	9
1	As above	1. Excavation in trenches n exc 1.5m wide and n exc 1.5m in depth and getting out in soft/loose soil	Cum	14			
		2. M&L cement concrete (1:4:8) type D2 using 40mm graded stone aggt as in fdn, filling, mass concrete etc all as spd	Cum	2			
		3. M&L RCC 1:2:4, (20mm graded stone aggregate) nominal mix as in fdn incl footing,plinth beam,base for column and mass concrete	Cum	3			
		4. M & L reinforced cement concrete(nominal mix) type B1 1:2:4 (20mm graded aggregate) in columns,posts,pillars complete all as specified and as directed.	Cum	1.5			
		5. M & L reinforced cement concrete type B1 1:2:4 (20mm graded aggregate) in lintels upto 1.5m clear span, sesmic and other similar bands etc complete all as specified and as directed.	Cum	3.5			
		6. M & L mild steel TMT bars 10mm dia and over, cut to length, bent to shape required, incl cranking, bending spirally and binding with and incl MS wire (annealed) not less than 0.9mm dia or securing with clips complete all as spd.	Kg	390			
		7. - Ditto - but 5mm dia and over upto and incl 10mm dia in stirrups, spacers and binders complete all as spd.	Kg	240			
		8. M & L form work to sides of concrete fdns, footings, base of column, raft beams, sides and soffits of fdn and plinth beams and similar work on rough finished surface of concrete complete.	Sqm	12.5			
		9. M & L form work to sides of concrete pillars,posts,columns in circular or rectulangular surface similar work on rough finished surface of concrete complete.	Sqm	25			
		10. S & F form work to sides and soffits of floor and roof beams, beam haunchings, lintels etc rough finished surface of concrete , flat complete all as spd.	Sqm	55			
		11. M&L Brickwork with fly ash bricks built in cement mortar 1:6 straight or curved on plan exc 6 m mean radius all as spd	Cum	20			
		12. M & L brick work with with fly ash bricks, straight or curved on plan to any radius in half brick thick wall built in cement mortar 1:6.	Sqm	12.5			
		13. S & F 105 X 60 mm pressed steel frames for doors with one rebates incl all necessary fixing lugs, hinges, lock strike plate etc, complete.	RM	6			
		14. S&F 30mm flush shutters, solid core construction, with block board core and plywood face panells, commercial types on both sides complete all as specified.	Sqm	2.5			
		15. Steel window with side hung shutter incl projecting type hinges with steel handle and steel peg stay without glazing bars complete all as specied.	Sqm	5.5			
		16. S & F 200mm long Alumn anodised, barrel tower bolts of extruded section and fixed	Each	2			
		17. S & F 100 mm long Butt hinges, medium weight cold rolled mild steel and fixed.	Each	3			
		18. S & F 300mm long Alumn alloy anodised sliding door bolts with hasp and staple and fixing clips of sheet cast or extruded sections and fixing bolts and sliding bolts .	Each	1			
		19. S & F 150mm long extruded alumn alloy handles , fabricated type .	Each	2			
		20. S & F Steel work in tubular trusses inclding special shaped washer etc. complete using ERW or induction butt welded tubes conforming ti IS 1161-1979 grade St-240 in cladding posts.	Kg	102.5			
		21. S & F Rolled section Fe-410w Gde -250 quality A as in main and cross beam, jack raters, purlins where connected to column rafter and running rails complete.	Kg	1100			
		S & F framed brackets of angle or tees with web and flanges cut to shape, drilled and counter sunk for screw incl. bending and welding angles as necessary gusset plates riviting etc. not exc 10kg each brackets conforming to Fe 290 Gde E-165 brackets over 10kg each to be measure under structural steel complete all as spd.	Kgs	28			

1	2	4	5	6	7	8	9
		23. M&L 15mm thick rendering in CM 1:6 on other than fairfaces of brick work or on concrete surfaces finished even and smooth without using extra cement complete all as spd.	Sqm	100			
		24. M&L 10mm thick rendering in CM 1:6 on fair faces of brick work or on concrete surfaces finished even and smooth without using extra cement complete all as spd.	Sqm	90			
		25. Pre-painted galvalume aluminium zink coating GI based corrugated steel sheet 0.50mm o an colour having tensile strength of 550Mpa as in roof covering/cladding to wall, fixed with self tapping screw as specified	Sqm	120			
		26. Pre-painted galvalume aluminium zink coating GI based plain steel sheet 0.50mm o an colour having tensile strength of 550Mpa as in roof covering/cladding to wall, fixed with self tapping screw as specified	Sqm	10			
		27. S & F hand rails, half round or other steel section or core for wooden hand rail straight portion, drilled and counter sunk for balustar running bars, nosing to steps incl embedding in concrete and screwing etc. Wind tie for roof incl securing bolts completed all as spd.	Kg	132			
		28. M & L Hard core usinf broken stone boulders of gauge n exc 63 mm deposited spread and levelled in layers n exc 15 cm thick watered and rammed to a true surface complete all as specified.	Cum	5.5			
		29. M&L 40mm thick cement concrete (1:2:4) type B-1 (20mm graded stone aggt as in flooring, finished even and smooth without using extra cement all as spd	Sqm	76			
		30. M&L 75mm thick plain cement concrete (1:4:8) type D-2 (40mm graded stone aggt) as in sub floors, sub bases etc complete all as spd.	Sqm	76			
		31. M&L 100 mm thick cement concrete (1:3:6) type B2 using 40mm graded stone aggt as in path/paving/plinth protection etc all as spd	Sqm	22.5			
		32. Returning, filling in incl spreading, levelling watering and well ramming in layers n exc 25 cm thick using excavated soil.	Cum	4			
		33. Removing excavated material soil to a distance n exc 50m and depositing where directed at a level n exc 1.5 m above the starting point.	Cum	11			
		34. S & F 4mm thick Non asbestos fibre cement building fixed or laid/ inserted to timber/GI/Aluminium frame work with screws.	Sqm	52.5			
		35. Anodised aluminium snap grid frame work or false ceiling all as specified.	Sqm	52.5			
		36. M & L Non Skid Ceramic tiles 7 to 8 mm thick (Square/Rectangular ) area of each tiles exc 0.18 but not exceeding 0.38 sqm in floors etc. set and jointed in neat cement slurry and pointed in white or coloueed cement to match	Sqm	52.5			
		37. - Ditto - but same as above on vertical surface such as skirting	Sqm	12.5			
		38. M & L Screed bed or bedding layer or mortar 15mm layer of mortar 15mm thick for laying floor finishes in CM 1:4 as floor finish to receive tiles.	Sqm	65			
		39. M&L applying two coats of oil emulsion over one coat of putty with preparation of newly plastered surfaces complete all as spd.	Sqm	100			
		40. M&L preparation of newly plastered surfaces of walls and applying two coats of cement base paint complete all as spd.	Sqm	90			
		41. M&L preparation of steel and iron surfaces of any description exc 10 cms width or girth and applying two coats of synthetic enamel paint over a coat of red oxide zinc chrome primer all as spd	Sqm	32.5			
			<b>Total (B/R Works) -</b>				
			<b>Total (RO) -</b>				

**SCHEDULE OF WORKS: B/R**

	<b>E/M WORK</b>	<b>Unit</b>	<b>Qty</b>	<b>Rate</b>	<b>Amt</b>	<b>Remarks</b>
2	1. S&F of 1200 mm sweep ceiling Fans of approved make as per user requiremnt Crompton Seawind 1200 mm(3 Blades) or equivalent	Each				
	2. S & F of Philips twin glow 20 Watt Batten Tube light or equilent make of Philips Coy with operating viltage of 160 - 360 Volts.	Each				
	3. S&F of 12 way TPN DB of approved makeas per user reqt	Each				
	4. S&F of MCB SPN of approved makesas per user requirement	Each				
	5. S& F of MCB SPN of approved makesas per user reqirment	Each				
	6. Wiring with copper wire 1.5 sqmm/2.5 sqmm for above points	Complete job				
	7. Sub Main wiring with 6 sqmm wire.	Complete job				
		<b>Total (E/M Works) -</b>				
		<b>Total (B/R Works) -</b>				
		<b>Grand Total (RO) -</b>				