

Adventist development and Relief Agency Nepal "ADRA"
Bakundole, Lalitpur

BILL OF QUANTITY

Project Name : Ganesh Bharati Secondary School Classroom Construction Project

Location : Banepa, Kavrepalanchowk

Item No.	Description of Works	Unit	Quantity	Rate	Amount	Remarks
				(NPR)	(NPR)	
1	SITE CLEARANCE/ TRANSPORTATION OF MATERIALS					
	Cleaning of grass,removing roots,breaking sods,levelling the surface and disposal etc all complete before and after construction of Building.	SQ.M	129.29			
2	DEMOLITION WORKS					
	Brick Work and Metal Truss	Days	7.00			
3	SCREEDING 75 mm Thick					
	Providing and laying in required line, level and pattern 75mm thick cement concrete flooring comprising an under layer of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm and down grade) and finished top layer with a floating coat of neat cement slurry and red oxide, with coving at corners etc. all complete as per drawings, specifications and instructions. The depth and pattern of the cement floor finish shall be maintained keeping on the view of the thickness of upcoming floor finish layer	CU.M	7.29			
4	P.C.C. FOR R.C.C. WORKS (M20)					
	Providing and laying in position machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work using OPC 43 grade cement with M20 design mixes (various grades of concrete) with 20 mm graded machine crushed stone aggregate of approved quality in various locations and heights including transportation of concrete to site of placing, compaction, finished to required line and level, protection and curing, etc. all complete as per drawings, specifications and the instructions of the Engineer, but excluding the cost of centering, shuttering, and reinforcement, but including the cost of admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete improve workability, improve strength without impairing strength and durability as per direction of Engineer for the following grades of the structural concrete:					
	- do - as above but M20 concrete at any location, level, height and shape as shown in the drawings and schedule	CU.M	3.33			
5	LOCAL MADE BRICK MASONRY WORKS (1 : 4 c/s)					
	Providing and laying first class machine made (Chinese) brick one or more brick thick wall in cement mortar 1:4 (1 cement : 4 coarse sand) in ,superstructure and other specified places in all heights and level including the cost of single or multi stage scaffolding, soaking bricks, curing, raking joints, provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer.					
		CU.M	5.61			
6	ECO PANEL BOARD					
	Supplying and Installation of Eco panel board of thickness 75mm with necessary accessories and all complete in proper line and length	SQ.M	58.68			
	Supplying and Installation of Eco panel board of thickness 60mm with necessary accessories and all complete in proper line and length	SQ.M	27.17			
7	CEMENT BOARD					
	Supplying and Installation of 12mm Cement Board with all necessary fittings and as per instruction of engineer	SQ.M	18.04			
8	METAL WORK					
	Supplying, fitting and fixing MS truss and handrail including enamel paint as per design with necessary welding and bolting with primer paint all complete	KG	2,267.79			
9	WOODEN CHAUKAT					
	Supplying, Making and fitting and fixing of sal wood chaukhats of 100 mm X 75mm including levelling, scaffolding, all necessary hardware fitting etc all complete as per instruction of engineer.	CU.M	0.11			
10	38 MM THICK READYMADE FLUSH DOOR					
	Supplying, Making and fitting fixing of 38mm flush shutter of ordinary seasoned and poisoned treated both side teak wook finished ready made door including levelling, scaffolding, all necessary hardware fittings etc all complete as per instruction of engineer.	Nos	3.00			
11	WINDOWS WORK					
	Providing and fixing 2 or 3 Panel Sliding Window of UPVC section in brown color, frame 60x60mm fitted with 5 mm clear glass. (window size 6' x 5' or average area 30 sq. feet per window).	SQ.M	17.79			
12	CGI COLORED ROOF PANEL					
	Supplying and Installation of CGI Colored Roof Panel of thickness 0.32mm with all necessary fittings and as per instruction of engineer	SQ.M	159.89			

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13	FLOORING AND FINISHING WORKS					
	Providing and laying of 3mm thick cement and sand punning in 1:1 cement sand ratio on floors, skirting, etc. including cleaning watering in surface and rubbing with steel trowel for hard and smooth surface and curing all complete as per drawing, specification and instruction of the Engineers	SQ.M	97.17			
14	False Ceiling Board					
	Supply and Installation of Gypsum Boardin Ceiling of thickness 12.5mm with all necessary Section, Perimeter, Inter and Hangers of thickness 0.4mm and other necessary fittings and accessories all complete	SQ.M	83.08			
15	EXTERIOR PVC PANEL					
	Supply and laying of Exterior PVC Panel of thickness 6mm and other necessary fittings and accessories all complete	SQ.M	32.36			
16	PLASTERING WORKS (1:4)					
	Providing and laying first class machine made (Chinese) brick one or more brick thick wall in cement mortar 1:4 (1 cement : 4 coarse sand) in ,superstructure and other specified places in all heights and level including the cost of single or multi stage scaffolding, soaking bricks, curing, raking joints, provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer.(for ground floor)	SQ.M	107.55			
17	PAINT WORK					
	Provide and applying two coat interior and exterior paint with two coat wall putty in approved colour	SQ.M	398.42			
	Provide and applying two coat enamel paint with primer in approved colour	SQ.M	2.94			
18	DESCRIPTIVE TEXT					
	Slogan descriptive text in wall with approved color and text height	RM	71.28			
19	RAIN GUTTER					
	Supply and Installation of approved Gutter size all complete	RM	26.00			
	PVC Pipe of 110mm of 2.5kgf/cm square	RM	6.00			
20	NAME PLATE	Nos	1.00			
21	ELECTRICAL WIRING AND CONDUITING WORKS					
a	Distribution Work:					
i)	6 Way SPN DB Double Cover (Distribution Board -DB. With busbar Neutral link Earth bar & Din Rail conforming IS13032,IS 8632,powder coated 16/14 SWG CRCA sheet Steel Housing complete Set,Siemens,ABB, Hagr, Legrand or equivalent	SET	1.00			
ii)	25-32 Amp DP MCB 440V, 50Hz,10kA,<0.1 break time degree of protection: IEC 60529, Electrical life 10,000 make/break operation.(1 year replace warrenty) Legrand, Siemens, ABB, Schnieder or equivalent of ISI marked	SET	1.00			
iii)	6 Amp SP MCB 240V, 50Hz,10kA,<0.1 break time degree of protection: IEC 60529, Electrical life 10,000 make/break operation .Max.8 no of Light/Fan Loads/MCB(1 year replace warrenty) (Make ABB,Siemens, Hager, Schnieder or equivalent)	SET	5.00			
iv)	16 Amp SP MCB 240V, 50Hz,10kA,<0.1 break time degree of protection: IEC 60529, Electrical life 10,000 make/break operation Max.3 no of Power Socket/MCB(1 year replace warrenty) (Make ABB,Siemens, Hager, Schnieder or equivalent)	SET	10.00			
v)	2x6 Sq.mm 650/1100 Volt PVC insulated flat steel wire unarmoured, PVC Sheathed, standard Copper conductor unarmoured(power)Cable conforming to IS: 1554 (part 1) 1988. Short circuit rating for 1-sec kA (rms)-standard Prakash, Nepal, Pioneer,NS marked or equivalent. Cable schedule must be approved by Engineer	SET	15.00			
b	Modular Power S/Socket with Box Set					
	16/6 Amp Combined S/Socket With Safety Shutter F ,indicator+ Box complete set. North-West,Schnieder,Legrand,Anchorn or equivalent	SET	15.00			
c	Light/Fan Loads					
i)	Supply, installation and putting into operation of Surface / Recessed Circular/Square 18 W LED Panel Light Set(HPL,Surya, Liper,Wipro) The Light fixtures shall be Direct Backlit LED having UL Class 2, THD <10 %, P.F. 0.9, CRI>= 80, Burning Life>40,000 hours, lumen>80 per watt LED light fixtures complying LM79-08 certification criteria and also module should be backed with LM80-08 Certificate from the OEM. The fixtures should be warranted for minimum period of 2 years from the date of Installation.The fixtures should have some kind of embossing/ engraving to identify the brand name. The manufactures should provide all kind of test report, technical details as and when called for. If required contractor have to provide test certificate from Government approved Lab for Claimed parameters by the manufacturer without any extra cost all complete as per specification	SET	29.00			

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ii)	Supply, installation and putting into operation of 16" Wall Fan Set, Orient, Crompton, Powerpack or equivalent.	SET	8.00			
d	Providing, Supplying, Laying, Fixing PVC insulated copper wire for surface wiring in UPVC/FRLS Pipe. Wires>Prakash,Nepal,Pioneer & Pipe Of MMS pressure NS/IS or equivalent with required all connector and bends as per NBC> :- Note: Wires in conduit must be less than 40% of conduit size(mm²)					
	Light Point wiring using 2*1.5 sq mm PVC insulated Copper Wire from D.B./J.B./ switch to load. Insulation Thickness, Nominal (mm)-0.7. Conductor Resistance at 20 C/km (max) 12.1 ohm. Conforming to NS:344/2052). Colour coding must be followed with proper number tag and point wiring schedule must be approved by Engineer.	PTS.	29.00			
	Power Point wiring using 2*2.5 sq mm+ 1*1.5 sq mm PVC insulated Copper Wire from D.B./J.B./ switch to Power socket. Insulation Thickness, Nominal (mm)-0.8. Conductor Resistance at 20 C/km (max) 7.41 ohm. Conforming to NS:344/2052). Colour coding must be followed with proper number tag and point wiring schedule must be approved by Engineer.	PTS.	15.00			
e	Junction box Metal with PVC Cover					
i)	4"* 6" Junction box	SET	2.00			
ii)	6"* 8" Junction box	SET	2.00			
f	Modular Switching Items(North west/Anchor/norisys/Legrand/Schnieder or equivalent) : Providing and fixing of 6/10 Amps single pole modular type mounted switch of approved quality colour make & design in 1.6 mm thick GI box and Front Plate of fixtures with outlet box complete in all respect as per layout drawings and specifications.					
i)	One Light point controlled by one 6/10A switch.	PTS.	37.00			
g	Miscellaneous work:					
i)	PVC Tape, HT Tape Screw, Hacksaw blade, Binding wire etc.	L.S				
				Total		
				Sub-Total		
				VAT 13%		
				GRAND TOTAL		

