

PROJECT: PROMOTING EQUITABLE ACCESS TO EDUCATION AND HOLISTIC CHILD DEVELOPMENT IN PATARASI (CONSTRUCTION COMPONENT)

EMPLOYER: SOS CHILDREN'S VILLAGES NEPAL

PROJECT LOCATION: PATARASI RURAL MUNICIPALITY, DILlichaur, Jumla

TYPE OF STRUCTURE : 1 STOREY 2 CLASSROOMS (1-2C, 2 NO.S), 1 STOREY 3 CLASSROOMS (1-3C, 6 NO.S)

PRICED BOQ-SUMMARY OF COST			
S.N.	PARTICULARS	AMOUNT (NPR)	
		IN FIGURE	IN WORDS
A	<u>Provisional Sum for Preliminary Works for all Sites</u>		
	Insurance		
	Mobilization and Demobilization		
	Project information board		
	Safety sign board		
	Barricading works		
	Safety materials and site safety		
	Total Cost of A:		
B	<u>Civil and Architectural works for all Sites</u>		
	1-2C (2 nos.) School Building construction works		
	1-3C (6 nos.) School Building construction works		
	Total Cost of B:		
C	<u>Building Services works for all Sites</u>		
	Electrical and Allied Installation works		
	1-2C (2 nos.) School Building construction works		
	1-3C (6 nos.) School Building construction works		
	Total Cost of C:		
D	<u>Total Cost of Works (after Discount (if any)):</u>		
	Total cost of Works (D= A+B+C):		
	Discounts (if any):		
	Total Cost of D:		
E	<u>VAT Addition:</u>		
	VAT @ 13% of Sub-Total Cost (E= 13% of D):		
	Total Cost of E:		
F	<u>GRAND TOTAL COST (F= D+E):</u>		

PROJECT: PROMOTING EQUITABLE ACCESS TO EDUCATION AND HOLISTIC CHILD DEVELOPMENT IN PATARASI (CONSTRUCTION COMPONENT)

EMPLOYER: SOS CHILDREN'S VILLAGES NEPAL

PROJECT LOCATION: PATARASI RURAL MUNICIPALITY, DILlichaur, JUMLA

TYPE OF STRUCTURE: 1 STOREY 2 CLASSROOMS (1-2C, 2 NO.S), 1 STOREY 3 CLASSROOMS (1-3C, 6 NO.S)

BILL OF QUANTITY- PRELIMINARY WORKS- (1-2C, 2 NO.S AND 1-3C, 6 NO.S)						
S. N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
1.0	PROVISIONAL SUM INSURANCE					
	Insurance of works covering all risk, materials, workmen's and third parties liabilities covering for entire period of construction plus defects liability period as per GCC clause No. 19. (Payment Shall be made in Actual Basis.)	P.S.	1			
2.0	MOBILIZATION AND DEMOBILIZATION					
	This implies- "Mobilization of the construction by constructing temporary acomodation for labours and site staff with required suitable facilities and keeping the same in good hygenic condition for entire project completion time. Demolition of the same and cleaning the site after completion of the construction activities all complete"; however, as space is not available for constructing temporary accomodation to the Contractor's team, the Contractor shall quote an amount, deemed reasonable for temporary accomodation of labours and site staff, as nearby to the site premises as possible. [Note: 50% payment shall be made after completion of mobilization and remaining 50% after completion of works as per contract]	L.S.	1.00			

BILL OF QUANTITY- PRELIMINARY WORKS- (1-2C, 2 NO.S AND 1-3C, 6 NO.S)

3.0	PROJECT INFORMATION BOARD					
	Providing and fixing of Project Information board (3'-0"×4'-0") made of high quality printed flex (minimum 280-300 GSM, high resolution, UV-resistant, weather-resisnatnt) with approved text, layout and colour scheme, mounted on an MS angle frame (25*25*3mm), and installed at an appropriate location including all required fixing accessories, supports (MS pie/angle embedded in 1:2:4 concrete), transportation, labour and materials including cutting, welding, fixing, tensioning of flex, finishing all complete as per the drawings and instructions of the Engineer.	NO.	4			
4.0	SAFETY SIGN BOARD					
	Providing and Fixing of Safety Sign Board (2'-0"×3'-0") made of high quality printed flex (minimum 280-300 GSM, high resolution, UV-resistant, weather-resisnatnt) with approved safety text, symbols and colour coding, mounted on an MS angle frame (25*25*3mm), installed at appropriate and visible location including all necessary fixing accessories, supports (MS pipe/agnle embedded in 1:2:4 concrete). transportation, labour, materials, cutting, welding, fixing, tensioning of flex, finishing, all complete as per the drawings and instructions of the Engineer.	NO.	4			
5.0	BARRICADING WORKS					
	Supplying, fixing, and installing green HDPE safety net of approved quality (UV-stabilized), for site barricading and public safety; including providing and installing supporting ropes, fastening ties, hooks, clamps, and all required accessories; fixing the net securely to barricades/structures ensuring proper tension, alignment, and overlap; complete with all labor, materials, and tools; as per drawings, specifications, and instructions of the Engineer-in-Charge.	R.M.	300.00			

BILL OF QUANTITY- PRELIMINARY WORKS- (1-2C, 2 NO.S AND 1-3C, 6 NO.S)						
6.0	SAFETY MATERIALS & SITE SAFETY					
	Providing and Maintaining Construction Safety Measures in Construction Site with proper Safety measures to person and work area (Helmet, Shoes, First Aid Kit, Clothing, Glove, Guard Rail for edge protection, Safety Net, Safety rope, Fall Protection etc.) as required by the Contract Clause GCC 24 and Specification division 1 "GENERAL REQUIREMENT CLAUSE 8(C)". The number of Safety Materials Personal Protecting Equipments (PPE) shall be minimum but not limited to 40 sets. Payment shall be made in Prorata Basis for entire duration of project.	L.S.	1			
	TOTALCOST FOR PRELIMINARY WORKS					

PROJECT: PROMOTING EQUITABLE ACCESS TO EDUCATION AND HOLISTIC CHILD DEVELOPMENT IN PATARASI (CONSTRUCTION COMPONENT)

EMPLOYER: SOS CHILDREN'S VILLAGES NEPAL

PROJECT LOCATION: PATARASI RURAL MUNICIPALITY, DILLICHAUR, JUMLA

TYPE OF STRUCTURE : 1 STOREY 2 CLASSROOMS (1-2C), 2 NO.S

BILL OF QUANTITIES- (1-2C, 2 NO.S)						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
1.0	EARTH WORKS					
1.1	SITE CLEARANCE & MOBILIZATION					
	Clearing and grubbing the site for construction by removing 150mm thick top soil including bushes, small trees, leveling of undulated ground, shorting and stacking/storing selected top soil for reuse in landscaping works, disposing unsuitable materials from site, etc., all complete as per drawings, specifications and instructions of the Engineer.	SQ.M.	214.51			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
1.2	EARTHWORK IN EXCAVATION					
	Excavation in foundations in all type of soils for foundation, trenches, footing, pits etc. to the required depth including dewatering by manual or mechanical means etc. as per specifications with all contractor's own machinery and equipment's, providing crossing of track, shoring, strutting, timbering and buttressing with appropriate materials and all such measures necessary to retain in position the sides of the foundation pit and including refilling the excavated material with watering, ramming, leveling the site and disposing off the surplus/unusable earth to outside the construction premises, etc. all complete as per drawings, specifications and instructions of the Engineer.	CU.M.	64.46			
1.3	EARTH BACK FILLING :					
	Back filling in foundation and sides of foundation with approved soil obtained from the excavation at site and stacked at site or brought from outside in layer not exceeding 15 cm thick (compacted thickness) including transportation of soil, spreading in required line and level, sprinkling water, ramming, compacting with mechanical rammers, testing, etc., all complete as per drawing, specification and instructions of the Engineer.	CU.M.	82.43			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
2.0	STONE SOLING (150MM)					
	Providing and laying uncoursed hand packed Dry Rubble Stone soling in foundation, under floor plinth with out any special dressing of stone including filling interstices with suitable quarry waste or stone chips or quarry sand, watering, compacting using appropriate mechanical compaction means with all contractors materials, handling, placing etc. all complete as per drawings, specifications and instruction of the Engineer. The complete item including all lead & lift.	CU.M.	30.54			
3.0	STONE MASONARY WORKS					
3.1	STONE MASONRY (1:6)					
	Providing and laying Random Rubble stone masonry works in foundation and above plinth for Retaning Wall in 1:6 (1 cement : 6 sand) cement mortar including providing through/bond stone at required interval, single or multi-stage self standing scaffolding, curing, protection, etc., all complete as per drawings, specifications and instruction of the engineer.	CU.M.	86.42			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
4	PCC WORKS					
4.1	PCC (1:2:4)					
	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:2:4 (1 cement : 2 sand : 4 coarse aggregate) for leveling course in foundations and under floor of building, etc. in all level with broken stone aggregate of size not more than 25 mm of approved quality including formwork wherever necessary, dewatering, batching, mixing, transporting, placing, compacting, curing, including all lead and lift, etc. all complete as per drawings, specifications and the instructions of the Engineer.	CU.M.	10.39			
5	RCC WORKS					
5.1	PCC FOR RCC WORKS (1:1.5:3)					
	Providing and laying in position machine mixed and machine vibrated cement concrete of mix 1:1.5:3 (1 cement:1.5 sand: 3 coarse aggregate) M20 grade for reinforced cement concrete work using approved cement 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).	CU.M.	10.21			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
5.2	STEEL REINFORCEMENT BARS					
	Providing and fixing in position Fe 500 steel reinforcement of various diameter confirming to relevant IS code in R.C.C. works including straightening, cutting, bending, binding with 20 SWG annealed wire for tying the reinforcement bars at each junctions (binding wire shall not be measured separately) including all waste and cut pieces, provision for adequate numbers of spacers, chairs, providing and placing cement mortar (1:1) cover blocks to keep the bars in intended position at all levels all complete as per drawings, specifications and instructions of the Engineer. (Authorized lap length and for the bar length exceeding 10 meter in length shall be measured for the payment).	TON	0.60			
5.3	FORMWORKS					
	Supplying and laying centering, shuttering of various pattern formworks with 19/12 mm thick water proof ply wood & steel adjustable props for all kinds of RCC works for foundations, columns, shear walls, beams, slab, staircase, lintel, sill, pergola, including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying De-shuttering chemical, De-shuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer.	SQ.M.	60.34			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6	DOORS & WINDOWS WORKS					
6.1	METAL FRAME WORKS					
	Providing and fixing in position in required line and level pressed (folded) Steel door frame of size shown in drawings manufacture from angle frame including hinges, jamb, lock jamb, head, base ties welded on rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5 mm thick with mortar guards, reinforcing to door hardware, strike-plate, shock absorbers as required etc., all complete as per drawings, specification and instruction of the Engineer.					
6.1.1	DOOR FRAME	R.M.	20.80			
6.1.2	WINDOW FRAME	R.M.	64.80			
6.2	METAL SHUTTER WORKS					
6.2.1	DOOR SHUTTER					
	Providing and fixing in position in required line and level pressed (folded) Steel door frame of size shown in drawings manufacture from angle frame including hinges, jamb, lock jamb, head, base ties of 0.7 mm pressed GI screwed on rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5 mm thick with mortar guards, reinforcing to door hardware, strike-plate, shock absorbers as required etc., all complete as per drawings, specification and instruction of the Engineer.	SQ.M.	8.40			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6.2.2	WINDOW SHUTTER					
	Providing, fabrication and installation in position MS angle shutter window in required size and shape including with 0.7 mm pressed GI screwed on rigidly fixed required numbers and sizes hardware like hinges, tower-bolts, handles, eye-hook, applying priming coat with zinc yellow chromate primer of approved make, etc., all complete as per drawings, specification and instruction of the Engineer.	SQ.M.	14.58			
7	ROOFING/TERRACING WORKS					
7.1	ROOF STRUCTURE (TRUSS WORKS)					
	Providing and fixing tubular roof trusses with rafters, purlins, wind ties, brackets etc., made with required grade mild steel tubes and mild steel sections of required sizes, including hoisting, fixing in position with MS bed plates, shoe angles, anchor bolts etc., and concrete grouting, concreting nut bolts, fabrication, fixing and treated with two coats of anticorrosive paints all complete as per drawings, specifications and instructions of the Engineer. Rate shall include preparing shop drawings, obtaining Engineer's or Client's approval, supplying, fabricating, delivering at site, hoisting and fixing in position, temporary staging, preparation of surface, applying Zinc chromate/Phosphate primer of one coat before and one coat after erection including two coats of synthetic enamel paint of approved make and color etc. all complete as per drawing, specification and instruction of the Engineer.	KG	3,104.34			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
7.2	CGI SHEET ROOFING					
	Providing & fixing precoated galvanized iron profile Cyan Blue/Sky Blue colour sheets (size, shape and pitch of corrugation as approved by Engineer) 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 , 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length up to 6 meter or as desired by Engineer. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal etc., all complete up to any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. Colour shall be approved by the Engineer based on manufacturer's colour chart prior to procurement.	SQ.M.	203.70			
7.3	CGI ROOFING RIDGE					
	At Top of Roof	R.M.	15.95			
8.0	TRANSLUSCENT SHEET					
	Providing and Fixing of Translucent Sheet.	SQ.M.	21.95			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
9.0	FALSE CEILING					
	Providing and fixing at all height 6 mm thick Cement Board false ceiling, including providing and fixing of frame work made of special sections power pressed from M.S. Sheet and galvanized in accordance with zinc coating grade 350 as per IS:277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flange of 22 mm and 37 mm at 1200 center to center, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 40 mm long with 6 mm dia. bolts to the angle hangers of 25 x25 x 0.55 mm of required length and other end of angle hanger being fixed with nut and bolts to G.I.Channels 45x15x0.9 running at the rate of 1200 mm centre to centre to which the ceiling section 0.5 mm thick bottom wedge of 80mm with tapered flanges of 26mm	SQ.M.	108.00			
10	CEMENT PLASTER (1:6)					
	Providing and applying at all levels and shape 20 mm thick cement plaster in building inside in specified cement mortar in two layers as 6 to 8 mm thick final coat with 1:6 (1 cement :6 fine sand) cement mortar over the 12 to 14 mm thick 1:6 (1 cement : 6 coarse sand) under coat in all surface at all height including mixing mortar, laying in perfect line, level and plumb and finishing in regular and even surface including all necessary single or multi-stage scaffolding, making grooves and recesses, throating, dusting, dripping, wetting, curing, protection, providing chicken wire mesh at the junction of concrete and masonry etc., all complete as per drawing , specification and instruction of the Engineer. [Rate shall also include for providing drips band, moulds, groove, chicken wire mesh at junction of RCC and masonry, etc., to complete the works at any heights].	SQ.M.	153.07			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
11	POINTING WORKS (1:2)					
	Providing and applying at all levels flush ruled Pointing Works in Cement Mortar 1:1 (1 cement: 1 fine sand) on the face of stone masonry wall including mixing mortar, laying in perfect line, level and plumb and finishing in regular and even surface ,all complete as per drawing , specification and instruction of the Engineer.	SQ.M.	74.49			
12.0	FLOORING WORKS					
12.1	CEMENT CONCRETE FLOORING (38MM) WITH NEAT CEMENT PUNNING					
	Providing, laying in required line, level and pattern 38 mm thick IPS floor finish with cement concrete of mix 1:2:4 (1 cement : 2 sand : 4 crushed stone aggregate 12 mm and down grade) with neat cement finish, laid in alternate panel or providing PVC dividing strips. including mixing laying in required slope, intrigal finishing using appropriate power trowelling equipment, etc. all complete as per drawing, specification and instructions of the Engineer.	SQ.M.	117.53			
12.2	NEAT CEMENT SKIRTING WORKS					
	- do - as above, but for 100 mm high skirting.	R.M.	66.46			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
13.0	PAINTING WORKS					
13.1	DISTEMPER PAINT					
	Providing and applying two coats of distemper paint of approved manufacturer and shade over a coat of alkali resistant cement primer of approved manufacturer as per manufacturer's specifications to the surface of wall, ceiling, beams columns, canopies, staircase, lobbies etc., all complete as per drawings, specifications and instruction. The rates shall include for scraping, washing the surface with water, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.	SQ.M.	163.05			
13.2	WEATHERCOAT PAINT					
	Providing and applying two coats of washable weather coat paint of approved manufacturer and shade over a coat of alkali resistant cement primer of approved manufacturer as per manufacturer's specifications to the outer surface of wall, etc., all complete as per drawings, specifications and instruction. The rates shall include for scraping, washing the surface with water, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.	SQ.M.	11.21			
13.3	ENAMEL PAINT					
	Providing and applying by spray/brush two coats of 1st quality synthetic enamel paint of approved manufacturer (Asian, Berger or equivalent) over wooden or metal surface in required shade at any height, shape, including surface preparation, fillers/putty, scaffolding, protection etc. all complete as per drawings, specifications and instructions. The finished surface shall give even and uniform surface.	SQ.M.	51.71			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
14	MISCELLANEOUS					
14.1	WINDOW GRILL					
	Providing, fabricating and fixing in position mild steel grille made with required MS flats, strips, bars fabricated as per drawings, fixing in position using approved fasteners including 2 coat of enamel and primer base coat, etc., all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.M.	14.58			
	A'. TOTAL COST OF CIVIL AND ARCHITECTURAL WORKS FOR 1 NO. OF BUILDING					
	A. TOTAL COST OF CIVIL AND ARCHITECTURAL WORKS FOR 2 NO.S OF BUILDINGS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
B.	ELECTRICAL WORKS					
1.0	COMMON INSTALLATION					
1.1	Stand Alone 40 A DP MCB with Enclosure					
	Supply, installation, testing and commissioning of factory fabricated and factory assembled recessed mounting dust and vermin proof, fully enclosed steel enclosure suitable to accomodate stand alone 40 A Din Bar mounted DP MCB as a stand alone protection breaker required at nearby Block all complete as required. MCB : HPL/IndoAsian or equivalent.	NO.	1			
1.2	Stand Alone 6 A DP MCB with Enclosure					
	Supply, installation, testing and commissioning of factory fabricated and factory assembled recessed mounting dust and vermin proof, fully enclosed steel enclosure suitable to accomodate 6 A Din Bar mounted DP MCB as a stand alone protection breaker required at nearby Block all to be supplied at Male and Female Toilets complete as required. MCB : HPL/IndoAsian or equivalent.	NO.	1			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
2.0	CABLES & WIRES					
	Supply, installation, testing & commissioning of following sizes of PVC insulated multistranded Copper conductor cables/wires of 1.1 KV grade to be drawn in 32 mm dia 2 mm thick PVC pipe for 2 Nos 10 Sq mm Cu + 1 x 6 Sq mm Cu Multistranded and 20 mm PVC Pipe for 2 Nos 2.5 Sq mm Cu + 1 x 1.5 Sq mm Cu as deemed including fixing hardware, fish wires etc. as required all complete. The Cables and Conduit shall be drawn from the existing point assuming the existing point is in the existing block of the school. The Pipe shall be laid underground i.e. 50 mm below finished ground level. Cables: Havells Nepal / Nepal Cable or equivalent.					
2.1	2 Nos 10 Sq mm Multistranded Cu Wire + 1 No 6 Sq mm Multistranded Cu wire	RM	30			
2.2	2 Nos 2.5 Sq mm Multistranded Cu Wire + 1 No 1.5 Sq mm Multistranded Cu wire	RM	30			
3.0	DISTRIBUTION BOARDS					
	Supply, installation, testing and commissioning of factory fabricated and factory assembled, sheet steel clad powder coated, recessed mounting dust and vermin proof, double door Distribution Boards fabricated from 14 SWG sheet steel provided with hinged gasketed door with locking facility and including suitably rated copper phase bars, Earth & Neutral Links all complete as required. Make of DB & breakers: HPL/IndoAsian or equivalent. All MCBs shall be 10 kA.					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
3.1	6 A DP MCB with Enclosure					
	Supply, installation, testing and commissioning of factory fabricated and factory assembled recessed mounting dust and vermin proof, fully enclosed steel enclosure suitable to accommodate 6 A Din Bar mounted DP MCB as a stand alone protection breaker required at toilet block, all complete as required. MCB : HPL/IndoAsian or equivalent.	NO.	1			
4.0	General Service Light Point Wiring					
	Supplying, wiring, testing commissioning and putting into operation of lights', ceiling fans', exhaust fans' points using 2.5 sq mm multi stranded copper conductor, 1100 volts grade, PVC insulated wires drawn through pre-installed 20 mm dia rigid PVC conduit as a cable sleeve concealed in wall and floor including all fixing and connecting materials. The rate for point wiring shall include the circuit wiring from designated Distribution Board (DB) up to the first light/fan/ control switch on wards to light/fan then the looping between switches /lights/fans/ etc. (No cable jointing is allowed except switch and fixture). The cost shall be including rigid PVC conduit, modular formation control switches/electronic fan dimmers integrated in multi modular plate flushed in required size of GI box, GI fish wire, cutting and filling chases for recessed pipes as deemed as per drawing and lay out plan all complete. Modular switches and Fan dimmer shall be - Polycab / Legrand or equivalent. Cables: Havells Nepal /Nepal Cable or equivalent.					
4.1	One Way Light Point	Pts	20			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
5.0	Light Fixtures/Luminaires & Accessories					
	Supply, storing, assembling, installation, testing and commissioning of following types wall/ceiling, surface/recessed, LED lighting fixtures including lamp, driver etc. including making connections with 1.5 Sq.mm PVC insulated copper conductor wire fixing and connecting materials complete as per specification. Make: Philips/Osram/Leggero or equivalent with minimum 3 years warranty.					
5.1	Supplying and fixing 20W LED tube lights (local brand with minimum 2 years warranty) with holder and wiring connections and all accessories, complete in all respects including testing and commissioning, as per engineer's instructions.	NO.	20			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6	Earthing & Lightning Protection					
6.1	Chemical Earthing					
	Supply installation, interconnection, testing and putting in to operation of earth station as per IS 3043. Complete with all fixing materials, including testing & commissioning of maintenance free Chemical earthing of Dual Pipe technology. 2 meter long with Outer dia. of 76 mm and inner dia of 38 mm with 80-100 micron galvanization . The Earthing Electrode shall be placed inside the removable perforated PVC Pipe of required thickness, diameter and length. Earthing electrode to be filled with the highly conductive material and shall be backfilled with Dry loose soil throughout the Electrode. 25 Kg earth enhancing compound per earth pit shall be mixed with water and poured inside the pit. The Cement concrete of 50 mm thickness shall be made above the earth pit . The Chemical compound should be tested and certified by BIS accredited laboratory. Ph value should be 7.5. This includes supply & fixing of watering pipe & strip 20x3 mm brought out up to ground level. Manhole of 250x250x300 mm shall be made for earthing pits. Refer Earthing Diagram for details.	Nos.	3			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6.2	Earthing Bar					
	Supply, Installation, testing, commissioning and putting into operation of 200x50x6 mm GI Earth Bar with 14 mm dia holes(stud) of suitable numbers complying the number of Earth strips to be connected to Earth Bar. The Earth Bar shall be housed in enclosure made of Bricks. The enclosure and front cover plate shall be made from SS 304 of 370x370x3 mm. The whole assembly shall be concealed in such a way that the SS 304 front cover plate is properly aligned & flush with the SS 304 Box. The SS 304 Cover Plate and enclosure shall be matt finish. Earthing Diagram for details.	Nos.	3			
6.3	G.I Strip /Cu wire Earthing					
	Supply & laying of Hot Dipped G.I. (80 micron) earthing strip/ Cu wire.					
6.3.1	25 x 3mm GI Strip	Mtr.	65			
6.3.2	12 SWG Cu Wire	Mtr.	15			
6.4	Earth Test link					
	Design, fabrication and installation of Earth Test Link suitable for GI Strips.	No	1			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6.5	Air Terminal Lightning Arrestor					
	Supply, delivery, installation, testing and commissioning of Air Terminal (Air Finial) for lightning protection system, fabricated from solid copper/aluminum rod of minimum 12 mm diameter and 300 mm to 600 mm height, mounted on approved type base/holder fixed over rooftop metal truss or masonry surface as required. The work includes providing all necessary clamps, saddles, supports, conductor connection fittings, earthing connection to down conductor, corrosion-resistant hardware, jointing compound, and all accessories required for proper completion of the lightning protection system. All works shall be carried out as per relevant electrical codes and engineer's instructions.	No	1			
	B'. TOTAL COST OF ELECTRICAL WORKS FOR 1 NO. OF BUILDING					
	B. TOTAL COST OF ELECTRICAL WORKS FOR 2 NO. OF BUILDINGS					

PROJECT: PROMOTING EQUITABLE ACCESS TO EDUCATION AND HOLISTIC CHILD DEVELOPMENT IN PATARASI (CONSTRUCTION COMPONENT)

EMPLOYER: SOS CHILDREN'S VILLAGES NEPAL

PROJECT LOCATION: PATARASI RURAL MUNICIPALITY, DILLICHAUR, JUMLA

TYPE OF STRUCTURE : 1 STOREY 3 CLASSROOMS (1-3C)- 6 NO.S

BILL OF QUANTITIES- (1-3C, 6 NO.S)						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
1.0	EARTH WORKS					
1.1	SITE CLEARANCE & MOBILIZATION					
	Clearing and grubbing the site for construction by removing 150mm thick top soil including bushes, small trees, leveling of undulated ground, shorting and stacking/storing selected top soil for reuse in landscaping works, disposing unsuitable materials from site, etc., all complete as per drawings, specifications and instructions of the Engineer.	SQ.M.	274.26			
1.2	EARTHWORK IN EXCAVATION					
	Excavation in foundations in all type of soils for foundation, trenches, footing, pits etc. to the required depth including dewatering by manual or mechanical means etc. as per specifications with all contractor's own machinery and equipment's, providing crossing of track, shoring, strutting, timbering and buttressing with appropriate materials and all such measures necessary to retain in position the sides of the foundation pit and including refilling the excavated material with watering, ramming, leveling the site and disposing off the surplus/unusable earth to outside the construction premises, etc. all complete as per drawings, specifications and instructions of the Engineer.	CU.M.	84.28			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
1.3	EARTH BACK FILLING :					
	Back filling in foundation and sides of foundation with approved soil obtained from the excavation at site and stacked at site or brought from outside in layer not exceeding 15 cm thick (compacted thickness) including transportation of soil, spreading in required line and level, sprinkling water, ramming, compacting with mechanical rammers, testing, etc., all complete as per drawing, specification and instructions of the Engineer.	CU.M.	112.83			
2.0	STONE SOLING (150MM)					
	Providing and laying uncoursed hand packed Dry Rubble Stone soling in foundation, under floor plinth with out any special dressing of stone including filling interstices with suitable quarry waste or stone chips or quarry sand, watering, compacting using appropriate mechanical compaction means with all contractors materials, handling, placing etc. all complete as per drawings, specifications and instruction of the Engineer. The complete item including all lead & lift.	CU.M.	42.76			
3.0	STONE MASONRY WORKS					
3.1	STONE MASONRY (1:6)					
	Providing and laying Random Rubble stone masonry works in foundation and above plinth for Retaining Wall in 1:6 (1 cement : 6 sand) cement mortar including providing through/bond stone at required interval, single or multi-stage self standing scaffolding, curing, protection, etc., all complete as per drawings, specifications and instruction of the engineer.	CU.M.	106.86			
4	PCC WORKS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
4.1	PCC (1:2:4)					
	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:2:4 (1 cement : 2 sand : 4 coarse aggregate) for leveling course in foundations and under floor of building, etc. in all level with broken stone aggregate of size not more than 25 mm of approved quality including formwork wherever necessary, dewatering, batching, mixing, transporting, placing, compacting, curing, including all lead and lift, etc. all complete as per drawings, specifications and the instructions of the Engineer.	CU.M.	14.65			
5	RCC WORKS					
5.1	PCC FOR RCC WORKS (1:1.5:3)					
	Providing and laying in position machine mixed and machine vibrated cement concrete of mix 1:1.5:3 (1 cement:1.5 sand: 3 coarse aggregate) M20 grade for reinforced cement concrete work using approved cement 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. payment).	CU.M.	14.55			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
5.2	STEEL REINFORCEMENT BARS					
	Providing and fixing in position Fe 500 steel reinforcement of various diameter confirming to relevant IS code in R.C.C. works including straightening, cutting, bending, binding with 20 SWG annealed wire for tying the reinforcement bars at each junctions (binding wire shall not be measured separately) including all waste and cut pieces, provision for adequate numbers of spacers, chairs, providing and placing cement mortar (1:1) cover blocks to keep the bars in intended position at all levels all complete as per drawings, specifications and instructions of the Engineer. (Authorized lap length and for the bar length exceeding 10 meter in length shall be measured for the payment).	TON	1.07			
5.3	FORMWORKS					
	Supplying and laying centering, shuttering of various pattern formworks with 19/12 mm thick water proof ply wood & steel adjustable props for all kinds of RCC works for foundations, columns, shear walls, beams, slab, staircase, lintel, sill, pergola, including nails, propping scaffolding, staging, supporting and bracing in proper lines and level, sealing the joints with heavy duty brown self adhesive tape, aligning to line and levels including Ties, PVC Spacer, Providing openings/ cutouts/ pockets, applying De-shuttering chemical, De-shuttering as approved by the Engineer etc., complete at all levels as per drawing, specifications and instructions of the Engineer.	SQ.M.	75.67			
6	DOORS & WINDOWS WORKS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6.1	METAL FRAME WORKS					
	Providing and fixing in position in required line and level pressed (folded) Steel door frame of size shown in drawings manufacture from angle frame including hinges, jamb, lock jamb, head, base ties welded on rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5 mm thick with mortar guards, reinforcing to door hardware, strike-plate, shock absorbers as required etc., all complete as per drawings, specification and instruction of the Engineer.					
6.1.1	DOOR FRAME	R.M.	31.40			
6.1.2	WINDOW FRAME	R.M.	97.20			
6.2	METAL SHUTTER WORKS					
6.2.1	DOOR SHUTTER					
	Providing and fixing in position in required line and level pressed (folded) Steel door frame of size shown in drawings manufacture from angle frame including hinges, jamb, lock jamb, head, base ties of 0.7 mm pressed GI screwed on rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5 mm thick with mortar guards, reinforcing to door hardware, strike-plate, shock absorbers as required etc., all complete as per drawings, specification and instruction of the Engineer.	SQ.M.	12.18			
6.2.2	WINDOW SHUTTER					
	Providing, fabrication and installation in position MS angle shutter window in required size and shape including with 0.7 mm pressed GI screwed on rigidly fixed required numbers and sizes hardware like hinges, tower-bolts, handles, eye-hook, applying priming coat with zinc yellow chromate primer of approved make, etc., all complete as per drawings, specification and instruction of the Engineer.	SQ.M.	21.87			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
7	ROOFING/TERRACING WORKS					
7.1	ROOF STRUCTURE (TRUSS WORKS)					
	Providing and fixing tubular roof trusses with rafters, purlins, wind ties, brackets etc., made with required grade mild steel tubes and mild steel sections of required sizes, including hoisting, fixing in position with MS bed plates, shoe angles, anchor bolts etc., and concrete grouting, concreting nut bolts, fabrication, fixing and treated with two coats of anticorrosive paints all complete as per drawings, specifications and instructions of the Engineer. Rate shall include preparing shop drawings, obtaining Engineer's or Client's approval, supplying, fabricating, delivering at site, hoisting and fixing in position, temporary staging, preparation of surface, applying Zinc chromate/Phosphate primer of one coat before and one coat after erection including two coats of synthetic enamel paint of approved make and color etc. all complete as per drawing, specification and instruction of the Engineer.	KG	3,478.24			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
7.2	CGI SHEET ROOFING					
	Providing & fixing precoated galvanized iron profile Cyan Blue/Sky Blue colour sheets (size, shape and pitch of corrugation as approved by Engineer) 0.50 mm +/- 5% total coated thickness (TCT), Zinc coating 120gsm as per IS: 277 , 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length up to 6 meter or as desired by Engineer. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal etc., all complete up to any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. Colour shall be approved by the Engineer based on manufacturer's colour chart prior to procurement.	SQ.M.	288.11			
7.3	CGI ROOFING RIDGE					
	At Top of Roof	R.M.	23.24			
8.0	TRANSLUSCENT SHEET					
	Providing and Fixing of Translucent Sheet.	SQ.M.	32.75			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
9.0	FALSE CEILING					
	Providing and fixing at all height 6 mm thick Cement Board false ceiling, including providing and fixing of frame work made of special sections power pressed from M.S. Sheet and galvanized in accordance with zinc coating grade 350 as per IS:277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flange of 22 mm and 37 mm at 1200 center to center, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 40 mm long with 6 mm dia. bolts to the angle hangers of 25 x25 x 0.55 mm of required length and other end of angle hanger being fixed with nut and bolts to G.I.Channels 45x15x0.9 running at the rate of 1200 mm centre to centre to which the ceiling section 0.5 mm thick bottom wedge of 80mm with tapered flanges of 26mm.	SQ.M.	161.99			
10	CEMENT PLASTER (1:6)					
	Providing and applying at all levels and shape 20 mm thick cement plaster in building inside in specified cement mortar in two layers as 6 to 8 mm thick final coat with 1:6 (1 cement :6 fine sand) cement mortar over the 12 to 14 mm thick 1:6 (1 cement : 6 coarse sand) under coat in all surface at all height including mixing mortar, laying in perfect line, level and plumb and finishing in regular and even surface including all necessary single or multi-stage scaffolding, making grooves and recesses, throating, dusting, dripping, wetting, curing, protection, providing chicken wire mesh at the junction of concrete and masonry etc., all complete as per drawing , specification and instruction of the Engineer. [Rate shall also include for providing drips band, moulds, groove, chicken wire mesh at junction of RCC and masonry, etc., to complete the works at any heights].	SQ.M.	271.27			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
11	POINTING WORKS (1:2)					
	Providing and applying at all levels flush ruled Pointing Works in Cement Mortar 1:1 (1 cement: 1 fine sand) on the face of stone masonry wall including mixing mortar, laying in perfect line, level and plumb and finishing in regular and even surface ,all complete as per drawing , specification and instruction of the Engineer.	SQ.M.	96.45			
12.0	FLOORING WORKS					
12.1	CEMENT CONCRETE FLOORING (38MM) WITH NEAT CEMENT PUNNING					
	Providing, laying in required line, level and pattern 38 mm thick IPS floor finish with cement concrete of mix 1:2:4 (1 cement : 2 sand : 4 crushed stone aggregate 12 mm and down grade) with neat cement finish, laid in alternate panel or providing PVC dividing strips. including mixing laying in required slope, intrigal finishing using appropriate power trowelling equipment, etc. all complete as per drawing, specification and instructions of the Engineer.	SQ.M.	183.93			
12.2	NEAT CEMENT SKIRTING WORKS					
	- do - as above, but for 100 mm high skirting.	R.M.	101.17			
13.0	PAINTING WORKS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
13.1	DISTEMPER PAINT					
	Providing and applying two coats of distemper paint of approved manufacturer and shade over a coat of alkali resistant cement primer of approved manufacturer as per manufacturer's specifications to the surface of wall, ceiling, beams columns, canopies, staircase, lobbies etc., all complete as per drawings, specifications and instruction. The rates shall include for scraping, washing the surface with water, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.	SQ.M.	236.76			
13.2	WEATHERCOAT PAINT					
	Providing and applying two coats of washable weather coat paint of approved manufacturer and shade over a coat of alkali resistant cement primer of approved manufacturer as per manufacturer's specifications to the outer surface of wall, etc., all complete as per drawings, specifications and instruction. The rates shall include for scraping, washing the surface with water, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.	SQ.M.	30.86			
13.3	ENAMEL PAINT					
	Providing and applying by spray/brush two coats of 1st quality synthetic enamel paint of approved manufacturer (Asian, Berger or equivalent) over wooden or metal surface in required shade at any height, shape, including surface preparation, fillers/putty, scaffolding, protection etc. all complete as per drawings, specifications and instructions. The finished surface shall give even and uniform surface.	SQ.M.	76.61			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
14	MISCELLANEOUS					
14.1	WINDOW GRILL					
	Providing, fabricating and fixing in position mild steel grille made with required MS flats, strips, bars fabricated as per drawings, fixing in position using approved fasteners including 2 coat of enamel and primer base coat, etc., all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.M.	21.87			
	A'. TOTAL COST OF CIVIL AND ARCHITECTURAL WORKS FOR 1 NO. OF BUILDING					
	A. TOTAL COST OF CIVIL AND ARCHITECTURAL WORKS FOR 6 NO. OF BUILDINGS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
B.	ELECTRICAL WORKS					
1.0	COMMON INSTALLATION					
1.1	Stand Alone 40 A DP MCB with Enclosure					
	Supply, installation, testing and commissioning of factory fabricated and factory assembled recessed mounting dust and vermin proof, fully enclosed steel enclosure suitable to accomodate stand alone 40 A Din Bar mounted DP MCB as a stand alone protection breaker required at nearby Block all complete as required. MCB : HPL/IndoAsian or equivalent.	NO.	1			
1.2	Stand Alone 6 A DP MCB with Enclosure					
	Supply, installation, testing and commissioning of factory fabricated and factory assembled recessed mounting dust and vermin proof, fully enclosed steel enclosure suitable to accomodate 6 A Din Bar mounted DP MCB as a stand alone protection breaker required at nearby Block all to be supplied at Male and Female Toilets complete as required. MCB : HPL/IndoAsian or equivalent.	NO.	1			
2.0	CABLES & WIRES					
	Supply, installation, testing & commissioning of following sizes of PVC insulated multistranded Copper conductor cables/wires of 1.1 KV grade to be drawn in 32 mm dia 2 mm thick PVC pipe for 2 Nos 10 Sq mm Cu + 1 x 6 Sq mm Cu Multistranded and 20 mm PVC Pipe for 2 Nos 2.5 Sq mm Cu + 1 x 1.5 Sq mm Cu as deemed including fixing hardware, fish wires etc. as required all complete. The Cables and Conduit shall be drawn from the existing point assuming the existing point is in the existing block of the school. The Pipe shall be laid underground i.e. 50 mm below finished ground level. Cables: Havells Nepal / Nepal Cable or equivalent.					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
2.1	2 Nos 10 Sq mm Multistranded Cu Wire + 1 No 6 Sq mm Multistranded Cu wire	RM	30			
2.2	2 Nos 2.5 Sq mm Multistranded Cu Wire + 1 No 1.5 Sq mm Multistranded Cu wire	RM	30			
3.0	DISTRIBUTION BOARDS					
	Supply, installation, testing and commissioning of factory fabricated and factory assembled, sheet steel clad powder coated, recessed mounting dust and vermin proof, double door Distribution Boards fabricated from 14 SWG sheet steel provided with hinged gasketted door with locking facility and including suitably rated copper phase bars, Earth & Neutral Links all complete as required. Make of DB & breakers: HPL/IndoAsian or equivalent. All MCBs shall be 10 kA.					
3.1	6 A DP MCB with Enclosure					
	Supply, installation, testing and commissioning of factory fabricated and factory assembled recessed mounting dust and vermin proof, fully enclosed steel enclosure suitable to accomodate 6 A Din Bar mounted DP MCB as a stand alone protection breaker required at toilet block, all complete as required. MCB : HPL/IndoAsian or equivalent.	NO.	1			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
4.0	General Service Light Point Wiring					
	Supplying, wiring, testing commissioning and putting into operation of lights', ceiling fans', exhaust fans' points using 2.5 sq mm multi stranded copper conductor, 1100 volts grade, PVC insulated wires drawn through pre-installed 20 mm dia rigid PVC conduit as a cable sleeve concealed in wall and floor including all fixing and connecting materials. The rate for point wiring shall include the circuit wiring from designated Distribution Board (DB) up to the first light/fan/ control switch on wards to light/fan then the looping between switches /lights/fans/ etc. (No cable jointing is allowed except switch and fixture). The cost shall be including rigid PVC conduit, modular formation control switches/electronic fan dimmers integrated in multi modular plate flushed in required size of GI box, GI fish wire, cutting and filling chases for recessed pipes as deemed as per drawing and lay out plan all complete. Modular switches and Fan dimmer shall be - Polycab / Legrand or equivalent. Cables: Havells Nepal /Nepal Cable or equivalent.					
4.1	One Way Light Point	Pts	29			
5.0	Light Fixtures/Luminaires & Accessories					
	Supply, storing, assembling, installation, testing and commissioning of following types wall/ceiling, surface/recessed, LED lighting fixtures including lamp, driver etc. including making connections with 1.5 Sq.mm PVC insulated copper conductor wire fixing and connecting materials complete as per specification. Make: Philips/Osram/Leggero or equivalent with minimum 3 years warranty.					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
5.1	Supplying and fixing 20W LED tube lights (local brand with minimum 2 years warranty) with holder and wiring connections and all accessories, complete in all respects including testing and commissioning, as per engineer's instructions.	NO.	29			
6	Earthing & Lightning Protection					
6.1	Chemical Earthing					
	Supply installation, interconnection, testing and putting in to operation of earth station as per IS 3043. Complete with all fixing materials, including testing & commissioning of maintenance free Chemical earthing of Dual Pipe technology. 2 meter long with Outer dia. of 76 mm and inner dia of 38 mm with 80-100 micron galvanization . The Earthing Electrode shall be placed inside the removable perforated PVC Pipe of required thickness, diameter and length. Earthing electrode to be filled with the highly conductive material and shall be backfilled with Dry loose soil throughout the Electrode. 25 Kg earth enhancing compound per earth pit shall be mixed with water and poured inside the pit. The Cement concrete of 50 mm thickness shall be made above the earth pit . The Chemical compound should be tested and certified by BIS accredited laboratory. Ph value should be 7.5. This includes supply & fixing of watering pipe & strip 20x3 mm brought out up to ground level. Manhole of 250x250x300 mm shall be made for earthing pits. Refer Earthing Diagram for details.	Nos.	3			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6.2	Earthing Bar					
	Supply, Installation, testing, commissioning and putting into operation of 200x50x6 mm GI Earth Bar with 14 mm dia holes(stud) of suitable numbers complying the number of Earth strips to be connected to Earth Bar. The Earth Bar shall be housed in enclosure made of Bricks. The enclosure and front cover plate shall be made from SS 304 of 370x370x3 mm. The whole assembly shall be concealed in such a way that the SS 304 front cover plate is properly aligned & flush with the SS 304 Box. The SS 304 Cover Plate and enclosure shall be matt finish. Earthing Diagram for details.	Nos.	3			
6.3	G.I Strip /Cu wire Earthing					
	Supply & laying of Hot Dipped G.I. (80 micron) earthing strip/ Cu wire.					
6.3.1	25 x 3mm GI Strip	Mtr.	65			
6.3.2	12 SWG Cu Wire	Mtr.	15			
6.4	Earth Test link					
	Design, fabrication and installation of Earth Test Link suitable for GI Strips.	No	1			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6.5	Air Terminal Lightning Arrestor					
	Supply, delivery, installation, testing and commissioning of Air Terminal (Air Finial) for lightning protection system, fabricated from solid copper/aluminum rod of minimum 12 mm diameter and 300 mm to 600 mm height, mounted on approved type base/holder fixed over rooftop metal truss or masonry surface as required. The work includes providing all necessary clamps, saddles, supports, conductor connection fittings, earthing connection to down conductor, corrosion-resistant hardware, jointing compound, and all accessories required for proper completion of the lightning protection system. All works shall be carried out as per relevant electrical codes and engineer's instructions.	No	1			
	B'. TOTAL COST OF ELECTRICAL WORKS FOR 1 NO. OF BUILDING					
	B. TOTAL COST OF ELECTRICAL WORKS FOR 6 NO. OF BUILDINGS					