

PROJECT: SOS CHILDREN'S VILLAGES NEPAL - COMMUNITY BASED FAMILY STRENGTHENING PROGRAM (CBFSP): CONSTRUCTION WORKS, KARJAHNA

CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Kholatole and Purvariyatole, Ward No. 4 and 5, Karjahna

BLOCK: Public Toilet Buildings (2 No.s), School Toilet Buildings(1 No.) and Site development works (2 No.s)

PRICED BOQ-SUMMARY OF COST			
S.N.	PARTICULARS	AMOUNT (NPR)	
		IN FIGURE	IN WORDS
A	PROVISIONAL SUM FOR PRELIMINARY WORKS FOR ALL SITES		
	Insurance		
	Mobilization and Demobilization		
	Project information board		
	Safety sign board		
	Barricading works		
	Safety materials and site safety		
	Total cost of Preliminary works for all Sites (A):		
B	CIVIL AND ARCHITECTURAL WORKS FOR ALL SITES		
	New block construction works (All toilet blocks)		
	Total Cost of Civil and Architectural works for all Sites (B):		
C	BUILDING SERVICES WORKS FOR ALL SITES		
	Electical and Allied Installation works		
	Water Supply, Plumbing and Sanitation works		
	Total Cost of Building Services for all Sites (C):		
D	SITE DEVELOPMENT WORKS		
	Total Cost of Site Development Works (D):		
E	TOTAL COST OF WORKS (A+B+C+D):		
F	VAT @13% OF E (F):		
G	GRAND TOTAL COST WITH 13% VAT (G= E+F):		

PROJECT: SOS CHILDREN'S VILLAGES NEPAL - COMMUNITY BASED FAMILY STRENGTHENING PROGRAM (CBFSP): CONSTRUCTION WORKS, KARJAHNA

CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Purvariyatole, Ward No.5, Karjahna

TYPE OF BUILDING: Public Toilet (1 no.)

ABSTRACT OF COST- PRELIMINARY WORKS- <u>PURVARIYATOLE</u>						
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 accommodation for labours and site staff with required suitable facilities and keeping the same in good hygienic 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 accommodation to the Contractor's team, the Contractor shall quote an amount, deemed reasonable for temporary accommodation 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			
3.0	PROJECT INFORMATION BOARD					
	Providing and fixing of Project Information board with approved Text in appropriate location including all required fixing accessories as per drawing all complete.	NO.	1			
4.0	SAFETY SIGN BOARD					
	Providing and Fixing of Safety Sign Board with approved Text and Sinage including required fixing accessories as per drawing all complete.	NO.	1			

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.	15.00			
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			
		TOTAL				

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CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Purvariyatole, Ward No.5, Karjahna

TYPE OF STRUCTURE: Public Toilet Building

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>PURVARIYATOLE</u>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
A.	CIVIL WORKS					
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.FT.	211.59			

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.FT.	865.11			
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.FT.	710.37			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
2.0	FLAT BRICK SOLING					
	Providing and laying one layer of flat brick soling using well-burnt brick of approved quality, laid strictly in line and level on the prepared sub-base; bricks to be laid flat, close-packed, with joints filled with local sand; including all labor, materials, hand packing, watering, dressing, leveling, and all necessary tools and equipment; complete as per drawings, specifications, and instructions of the Engineer.	SQ.FT.	332.95			
3.0	CONCRETE WORKS					
3.1	P.C.C					
3.1.1	P.C.C (1:3:6) Works					
	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:3:6 (1 cement : 3 sand : 6 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.FT.	81.47			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
3.2	P.C.C. FOR R.C.C. WORKS					
	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, all complete as per drawings, specifications and instructions of the Engineer.	CU.FT.	304.06			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
3.3	STEEL REINFORCEMENT					
	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 lapping for the bar length exceeding 10 meter in length shall be measured for the payment, except to column).	TON	1.012			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
3.4	FORM WORKS					
	Supplying and Fixing in position centering, shuttering of various pattern formworks with 19/12 mm thick water proof ply wood with 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.FT.	797.91			
4.0	BRICK MASONRY WORKS					
4.1	BRICK MASONRY WORKS (1 : 4 C/S)					
	Providing and laying first class chimney fired brick one or more brick thick wall in cement mortar 1:4 (1 cement : 4 coarse sand) in foundation up to plinth, 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.FT.	260.15			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
4.2	HALF BRICK WORKS (1:4 C/S)					
	Providing and laying non-fairfaced half brick work masonry in cement mortar 1:4 (1 cement:4 sand) in superstructure with approved first class fired bricks in perfect line & level, required size and shape at any height and level, including the cost of single or multi stage scaffolding, cleaning, soaking of the bricks, packing of the joints, raking joints, provision for recesses, openings, curing, providing 25x3mm GI Straps Fixed to columns at every 5th course of brick and 60mm width 14 gauge welded GI mesh anchored to GI strap, all complete as per design, drawing, specifications instructions of the Engineer.	SQ.FT.	650.44			
4.3	HONEY COMB BRICK WORKS (1:3 C/S)					
	Providing and laying honey comb brick one or more brick thick wall in cement mortar 1:3 (1 cement : 3 coarse sand) insoak pit in all heights and level including the cost of soaking bricks, curing, raking joints, provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer.	CU.FT.	21.21			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
5.0	DOORS & WINDOWS WORKS					
5.1	WOODEN DOOR					
5.1.1	DOOR FRAME (SALWOOD)					
	Supply and installation of Sal wood door frames of approved quality, seasoned and free from defects such as knots, cracks, or decay; Frame sections to be minimum 100 mm × 75 mm (or as per design/drawing); All joints to be properly mortised and tenoned, glued, and pinned for strength; Frame to include necessary holdfasts (MS flat, 25 mm × 6 mm) embedded in walls with cement mortar; Surface to be smoothly dressed and sanded, ready for painting or polishing, all complete as detailed in drawing, specification and instructions of the Engineer.	CU.FT.	5.45			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
5.1.2	FLUSH DOOR SHUTTER (32MM)					
	Providing & fixing 32mm thick solid core flush door shutters, in single leaf or double leaf as per detailed drawing. The flush doors shall be factory made solid core block board shutters bonded with phenol formaldehyde resin. The lipping shall be of teakwood all-round the flush door with a minimum thickness of 12mm. The following C.P. fittings shall be used: (a) - 2-150 mm Handles in each leaf; (b) Tower-bolt – 300 mm long at top 1 in each leaf and 200 at bottom in each leaf; (c) 1 no. 300 mm long C.P. Aldrops with Godrej made padlock; (d) 125 mm heavy duty GI But Hinges 3 nos. in each leaf (rate shall include all required door hardware), all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.FT.	84.00			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
5.2	Aluminum Louvre Ventilation					
	Supply and installation of Aluminum louvre (90mm) ventilation unit, size 600 mm × 900 mm (2' × 3'), powder-coated finish, complete with frame, blades, and necessary fixing accessories. Install in toilet wall as per approved drawings, ensuring proper alignment, airtight sealing around frame, and adequate provision for drainage and airflow. All work shall conform to manufacturer's recommendations and relevant standards, all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.FT.	24.00			
5.3	WINDOW GRILL					
	Providing, MS solid bars of required size 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 Zinc Rich Primer base coat, etc., all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.FT.	24.00			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6.0	FLOORING WORKS					
6.1	HARDENED CEMENT CONCRETE FLOOR					
	Providing, laying in required line, level and pattern 40 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) laid in alternate panel or providing Glass dividing strips and finished with approved floor hardener applied as per manufacturer's instructions 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.FT.	147.18			
6.2	NEAT CEMENT SKIRTING					
	- do - as above, but for 100 mm high skirting.	R.FT.	16.32			
7.0	TILE WORKS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
7.1	WALL TILE					
	Providing and laying 8 mm Kajaria DuraTech ceramic wall tiles or equivalent of approved shade and design, size 300×300 mm (or as required), laid on a 12 mm thick cement mortar (1:4) bedding, including surface preparation, curing, mixing, laying in required proportions and slope, finishing using appropriate power trowelling equipment, joints filled with white cement mixed with pigment to match tile shade, all necessary materials, labor, and equipment complete as per specifications, drawings and instructions of the Engineer.	SQ.FT.	462.40			
7.2	FLOOR TILE					
	Providing and laying (9-10) mm Kajaria vitrified floor tiles or equivalent of approved shade and design, size 300×300 mm (or as specified), with water absorption less than 0.5%, anti-skid matte finish, suitable for wet areas, laid on a 20 mm thick cement mortar (1:4) bedding, including surface preparation, curing, mixing, laying in required proportions and slope, finishing using appropriate power trowelling equipment, joints filled with epoxy grout, all necessary materials, labor, and equipment complete as per , drawings and instructions of the Engineer.	SQ.FT.	76.68			
8.0	PLASTER WORKS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
8.1	INTERNAL PLASTER (1:3)					
	Providing and applying at all levels and shape 20 mm thick cement plaster in building inside in specified cement mortar in two layers as 8 mm thick final coat with 1:3 (1 cement :3 fine sand) cement mortar over the 14 mm thick 1:3 (1 cement : 3 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.FT.	836.42			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
8.2	EXTERNAL PLASTER (1:3)					
	Providing and applying at all levels and shape 20 mm thick cement plaster in building exterior in specified cement mortar with 1:3 (1 cement :3 fine sand) 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.FT.	725.07			
9.0	PAINT WORKS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
9.1	DISTEMPER PAINTS					
	Providing and applying two or more coats of washable 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.FT.	836.42			
9.2	EXTERIOR WEATHER COAT PAINT					
	Providing and applying two or more coats of first quality hundred percent acrylic paint of approved shade and pattern to the exterior walls of buildings etc., The rates shall include for scrapping , washing the surface with water, applying a coat of approved quality water base cement primer, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.	SQ.FT.	725.07			
10.0	MISCELLANEOUS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
10.1	SS RAILING					
	Providing, fabrication as per design drawings and installation in position 50mm ø SS handrail with 50mm ø post in 2m interval with 25mm ø 3 no.s SS pipe in horizontal with 3' height, in staircase, verandah and other areas including cutting to required shape and size, welding joints, installation of base anchor plates of appropriate size with required numbers of expansion bolts of required size, providing required size bends, finishing weld joints to produce smooth surface, applying one coat of metal primer and two or more coats of enamel paint of required shade, etc., all complete as per drawings, specifications and instruction of the Engineer.	R.FT.	6.00			
10.2	HAND PUMP					
	Supply, transport, and install hand pump set complete with pump head, riser pipes, connecting rods, cylinder assembly, strainer, platform construction, and necessary fittings; including excavation, placing, alignment, testing, and commissioning; all materials, labor, and tools included; work completed as per technical specifications and engineer's instructions.	SET	1.00			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
10.3	WATER PUMP (1 HP)					
	Supply, deliver, and install 1 HP electric water pump (indian brand) complete with motor, pump set, base plate, foot valve, non-return valve, suction and delivery pipes, electrical wiring, switchgear, testing, and commissioning; including all accessories, fittings, labor, and tools; work completed in all respects as per technical specifications and engineer's instructions.	SET	1.00			
	A. TOTAL OF CIVIL AND ARCHITECTURE WORKS					

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			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
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 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			

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	7			

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 6W LED electric bulb (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.	7			
	B. TOTAL OF ELECTRICAL WORKS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
C.	SANITARY AND PLUMBING WORKS					
	Providing and fixing in position of all work items with all necessary fittings complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below.					
	Sanitaryware: Local brands with minimum 2 years warranty					
	CP Fixtures: Parryware or equivalent with minimum 3 years warranty					
	SWR Pipes: Nepatop / Marvel / Supreme PVC or equivalent with minimum 1 year warranty					
	Cold Water Supply Pipe and fittings: Marvel/ Mangalam/ Hilltake CPVC or equivalent with minimum 10 years warranty					
	Gun Metal Gate Valve: LEADER/SANT or equivalent with minimum 2 year warranty					
	Ball Valve: Marvel/ Mangalam/ Hilltake or equivalent with minimum 2 year warranty					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
I. SANITARY INSTALLATION						
1.0	580*480mm Porcelain clay white glazed Orissa Pan with low level cistern (6 litre flush) with complete set all accessories fittings complete with testing and ready for operation	NO.	3.00			
2.0	White glazed earthenware wall-hung Hand wash basin of size 550x400mm with 15 mm PVC connector with both ends couplings, 15mm CP angular cock -1 no, 15mm CP Pillar Cock, 32mm PVC P-trap, waste coupling with testing and ready for operation	NO.	1.00			
3.0	Providing and fixing brass bib tap of approved make and quality, size 15 mm (½"), weight not less than 400 grams, with chromium-plated finish, including necessary fittings, Teflon tape, and making good the wall surface, complete as per specification and Engineer's instruction.	NO.	4.00			
4.0	Providing and fixing Stainless Steel (SS) soap tray of approved design and quality, made from 304 grade stainless steel, size approximately 100 mm x 75 mm, with wall mounting arrangement, including all necessary screws, rawl plugs, and installation accessories, complete as per manufacturer's specification and Engineer's instruction.	NO.	2.00			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
5.0	Providing and fixing PVC floor trap of approved make and quality, size 75 mm (or 100 mm as required), with deep water seal (minimum 50 mm), including grating, trap body, and necessary solvent cement joints, complete with testing and ready for operation, as per drawing and specification.	NO.	2.00			
II. WATER SUPPLY INSTALLATION						
6.0	CPVC pipes SDR-11 including MS clamps and brackets, nails and hooks, and all necessary CPVC/Brass specials required for complete installation, cutting, jointing, sealing of joints etc, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications and instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately.					
	- 25 mm	R M	20.00			
	- 20 mm	R M	20.00			
	- 15 mm	R M	2.00			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
7.0	Galvanised Iron Pipe of Medium Class including MS clamps and brackets, nails and hooks, and all necessary GI specials required for complete installation, cutting, jointing, sealing of joints etc, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications and instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately.					
	- 50 mm	R M	20.00			
	- 40 mm	R M	20.00			
8.0	CPVC Ball Valve					
	- 40 mm	NO.	1.00			
	- 25 mm	NO.	2.00			
9.0	1000 litres capacity Nepatop or Rooftop or equivalent brand Plastic cyllindrical vertical water storage tank complete with inter-connection, overflow, washout and vents	NO.	1.00			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
III.	SEWER, RAIN AND WASTE WATER INSTALLATION					
10.0	PVC SWR (Soil, Waste, Rain) pipes with all necessary ring gaskets, PVC fittings, including MS clamps, hangers, cutting, jointing, sealing, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications, manufacturer's recommendations, instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately.					
	- 110 mm ED 6 kg/sqcm	R M	20.00			
	- 75 mm ED 6 kg/sqcm	R M	20.00			
	- 50 mm ED 6 kg/sqcm	R M	2.00			
	C. SANITARY AND PLUMBING WORKS					
	D. TOTAL OF CIVIL AND ARCHITECTURE WORKS, ELECTRICAL WORKS AND SANITARY AND PLUMBING WORKS					

PROJECT: SOS CHILDREN'S VILLAGES NEPAL - COMMUNITY BASED FAMILY STRENGTHENING PROGRAM (CBFSP): CONSTRUCTION WORKS, KARJAHNA

CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Kholatole, Ward No.5, Karjahna

TYPE OF BUILDING: Public Toilet (1 no.)

ABSTRACT OF COST- PRELIMINARY WORKS- <u>KHOLATOLE</u>						
S. N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE (NPR)	AMOUNT IN FIGURE (NPR)	AMOUNT IN WORDS (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			
3.0	PROJECT INFORMATION BOARD					
	Providing and fixing of Project Information board with approved Text in appropriate location including all required fixing accessories as per drawing all complete.	NO.	1			

4.0	SAFETY SIGN BOARD					
	Providing and Fixing of Safety Sign Board with approved Text and Sinage including required fixing accessories as per drawing all complete.	NO.	1			
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.	20.00			
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			
		TOTAL				

PROJECT: SOS CHILDREN'S VILLAGES NEPAL - COMMUNITY BASED FAMILY STRENGTHENING PROGRAM (CBFSP): CONSTRUCTION WORKS, KARJAHNA

CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Kholatole, Ward No.5, Karjahna

TYPE OF STRUCTURE: Public Toilet Building

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>KHOLATOLE</u>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
A.	CIVIL WORKS					
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.FT.	737.91			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
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.FT.	1,733.33			
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.FT.	1,373.69			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
2.0	FLAT BRICK SOLING					
	Providing and laying one layer of flat brick soling using well-burnt brick of approved quality, laid strictly in line and level on the prepared sub-base; bricks to be laid flat, close-packed, with joints filled with local sand; including all labor, materials, hand packing, watering, dressing, leveling, and all necessary tools and equipment; complete as per drawings, specifications, and instructions of the Engineer.	SQ.FT.	658.57			
3.0	CONCRETE WORKS					
3.1	P.C.C					
3.1.1	P.C.C (1:3:6) Works					
	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:3:6 (1 cement : 3 sand : 6 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.FT.	164.64			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
3.2	P.C.C. FOR R.C.C. WORKS					
	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, all complete as per drawings, specifications and instructions	CU.FT.	413.67			
3.3	STEEL REINFORCEMENT					
	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 lapping for the bar length exceeding 10 meter in length shall be measured for the payment, except to column).	TON	1.477			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>KHOLATOLE</u>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
3.4	FORM WORKS					
	Supplying and Fixing in position centering, shuttering of various pattern formworks with 19/12 mm thick water proof ply wood with 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.FT.	1,202.60			
4.0	BRICK MASONRY WORKS					
4.1	BRICK MASONRY WORKS (1 : 4 C/S)					
	Providing and laying first class chimney fired brick one or more brick thick wall in cement mortar 1:4 (1 cement : 4 coarse sand) in foundation up to plinth, 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.FT.	397.08			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>KHOLATOLE</u>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
4.2	HALF BRICK WORKS (1 : 4 C/S)					
	Providing and laying non-fairfaced half brick work masonry in cement mortar 1:4 (1 cement:4 sand) in superstructure with approved first class fired bricks in perfect line & level, required size and shape at any height and level, including the cost of single or multi stage scaffolding, cleaning, soaking of the bricks, packing of the joints, raking joints, provision for recesses, openings, curing, providing 25x3mm GI Straps Fixed to columns at every 5th course of brick and 60mm width 14 gauge welded GI mesh anchored to GI strap, all complete as per design, drawing, specifications instructions of the Engineer.	SQ.FT.	711.21			
4.3	HONEY COMB BRICK WORKS (1:3 C/S)					
	Providing and laying honey comb brick one or more brick thick wall in cement mortar 1:3 (1 cement : 3 coarse sand) insoak pit in all heights and level including the cost of soaking bricks, curing, raking joints, provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer.	CU.FT.	21.21			
5.0	DOORS & WINDOWS WORKS					
5.1	WOODEN DOOR					

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
5.1.1	DOOR FRAME (SALWOOD)					
	Supply and installation of Sal wood door frames of approved quality, seasoned and free from defects such as knots, cracks, or decay; Frame sections to be minimum 100 mm × 75 mm (or as per design/drawing); All joints to be properly mortised and tenoned, glued, and pinned for strength; Frame to include necessary holdfasts (MS flat, 25 mm × 6 mm) embedded in walls with cement mortar; Surface to be smoothly dressed and sanded, ready for painting or polishing, all complete as detailed in drawing, specification and instructions of the Engineer.	CU.FT.	5.51			
5.1.2	FLUSH DOOR SHUTTER (32MM)					
	Providing & fixing 32mm thick solid core flush door shutters, in single leaf or double leaf as per detailed drawing. The flush doors shall be factory made solid core block board shutters bonded with phenol formaldehyde resin. The lipping shall be of teakwood all-round the flush door with a minimum thickness of 12mm. The following C.P. fittings shall be used: (a) - 2-150 mm Handles in each leaf; (b) Tower-bolt – 300 mm long at top 1 in each leaf and 200 at bottom in each leaf; (c) 1 no. 300 mm long C.P. Aldrops with Godrej made padlock; (d) 125 mm heavy duty GI But Hinges 3 nos. in each leaf (rate shall include all required door hardware), all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.FT.	87.50			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
5.2	Aluminum Louvre Ventilation					
	Supply and installation of Aluminum louvre ventilation unit, size 600 mm × 900 mm (2' × 3'), powder-coated finish, complete with frame, blades, and necessary fixing accessories. Install in toilet wall as per approved drawings, ensuring proper alignment, airtight sealing around frame, and adequate provision for drainage and airflow. All work shall conform to manufacturer's recommendations and relevant standards, all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.FT.	24.00			
5.3	WINDOW GRILL					
	Providing, MS solid bars of required size 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 Zinc Rich Primer base coat, etc., all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.FT.	24.00			
6.0	FLOORING WORKS					

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6.1	HARDENED CEMENT CONCRETE FLOOR					
	Providing, laying in required line, level and pattern 40 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) laid in alternate panel or providing Glass dividing strips and finished with approved floor hardener applied as per manufacturer's instructions including mixing laying in required slope, intrical finishing using appropriate power trowelling equipment, etc. all complete as per drawing, specification and instructions of the Engineer.	SQ.FT.	334.97			
6.2	NEAT CEMENT SKIRTING					
	- do - as above, but for 100 mm high skirting.	R.FT.	23.08			
7.0	TILE WORKS					
7.1	WALL TILE					
	Providing and laying 8 mm Kajaria DuraTech ceramic wall tiles or equivalent of approved shade and design, size 300×300 mm (or as required), laid on a 12 mm thick cement mortar (1:4) bedding, including surface preparation, curing, mixing, laying in required proportions and slope, finishing using appropriate power trowelling equipment, joints filled with white cement mixed with pigment to match tile shade, all necessary materials, labor, and equipment complete as per specifications, drawings and instructions of the Engineer.	SQ.FT.	535.24			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
7.2	FLOOR TILE					
	Providing and laying (9-10) mm Kajaria vitrified floor tiles or equivalent of approved shade and design, size 300×300 mm (or as specified), with water absorption less than 0.5%, anti-skid matte finish, suitable for wet areas, laid on a 20 mm thick cement mortar (1:4) bedding, including surface preparation, curing, mixing, laying in required proportions and slope, finishing using appropriate power trowelling equipment, joints filled with epoxy grout, all necessary materials, labor, and equipment complete as per , drawings and instructions of the Engineer.	SQ.FT.	110.25			
8.0	PLASTER WORKS					
8.1	INTERNAL PLASTER (1:3 C:S)					
	Providing and applying at all levels and shape 20 mm thick cement plaster in building inside in specified cement mortar in two layers as 8mm thick final coat with 1:3 (1 cement :3 fine sand) cement mortar over the 14 mm thick 1:6 (1 cement : 3 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.FT.	1,110.00			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>KHOLATOLE</u>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
8.2	EXTERNAL PLASTER (1:3 C:S)					
	Providing and applying at all levels and shape 20 mm thick cement plaster in building exterior in specified cement mortar with 1:3 (1 cement :3 fine sand) 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.FT.	1,013.90			
9.0	PAINT WORKS					
9.1	DISTEMPER PAINTS					
	Providing and applying two or more coats of washable 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.FT.	406.50			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
9.2	EXTERIOR WEATHER COAT PAINT					
	Providing and applying two or more coats of first quality hundred percent acrylic paint of approved shade and pattern to the exterior walls of buildings etc., The rates shall include for scrapping , washing the surface with water, applying a coat of approved quality water base cement primer, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.	SQ.FT.	1,013.90			
10.0	MISCELLANEOUS					
10.1	SS RAILING					
	Providing, fabrication as per design drawings and installation in position 50mm ø SS handrail with 50mm ø post in 2m interval with 25mm ø 3 no.s SS pipe in horizontal with 3' height, in staircase, verandah and other areas including cutting to required shape and size, welding joints, installation of base anchor plates of appropriate size with required numbers of expansion bolts of required size, providing required size bends, finishing weld joints to produce smooth surface, applying one coat of metal primer and two or more coats of enamel paint of required shade, etc., all complete as per drawings, specifications and instruction of the Engineer.	R.FT.	52.14			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
10.2	HAND PUMP					
	Supply, transport, and install hand pump set complete with pump head, riser pipes, connecting rods, cylinder assembly, strainer, platform construction, and necessary fittings; including excavation, placing, alignment, testing, and commissioning; all materials, labor, and tools included; work completed as per technical specifications and engineer's instructions.	SET	1.00			
10.3	WATER PUMP (1 HP)					
	Supply, deliver, and install 1 HP electric water pump (indian brand) complete with motor, pump set, base plate, foot valve, non-return valve, suction and delivery pipes, electrical wiring, switchgear, testing, and commissioning; including all accessories, fittings, labor, and tools; work completed in all respects as per technical specifications and engineer's instructions.	SET	1.00			
	A. TOTAL OF CIVIL AND ARCHITECTURE WORKS					

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i><u>KHOLATOLE</u></i>						
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			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>KHOLATOLE</u>						
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 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.					

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>KHOLATOLE</u>						
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 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			
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 deginated 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	7			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i><u>KHOLATOLE</u></i>						
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 6W LED electric bulb (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.	7			
	B. TOTAL OF ELECTRICAL WORKS					

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
C.	SANITARY AND PLUMBING WORKS					
	Providing and fixing in position of all work items with all necessary fittings complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below.					
	Sanitaryware: Local brands with minimum 2 years warranty					
	CP Fixtures: Parryware or equivalent with minimum 3 years warranty					
	SWR Pipes: Nepatop / Marvel / Supreme PVC or equivalent with minimum 1 year warranty					
	Cold Water Supply Pipe and fittings: Marvel/ Mangalam/ Hilltake CPVC or equivalent with minimum 10 years warranty					
	Gun Metal Gate Valve: LEADER/SANT or equivalent with minimum 2 year warranty					
	Ball Valve: Marvel/ Mangalam/ Hilltake or equivalent with minimum 2 year warranty					

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>KHOLATOLE</u>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
I.	SANITARY INSTALLATION					
1.0	White glazed earthenware Indian Pattern Water Closet set with standard bakelite seat cover, PVC low level flushing cistern (dual flush (3 liters half flush/6 liters full flush) with flush pipe and cistern accessories, bracket, CP angular cock, PVC connector pipe complete with testing and ready for operation	SET	1.00			
2.0	580*480mm Porcelain clay white glazed Orissa Pan with low level cistern (6 litre flush) with complete set all accessories fittings complete with testing and ready for operation	NO.	2.00			
3.0	White glazed earthenware wall-hung Hand wash basin of size 550x400mm with 15 mm PVC connector with both ends couplings, 15mm CP angular cock -1 no, 15mm CP Pillar Cock, 32mm PVC P-trap, waste coupling with testing and ready for operation	NO.	2.00			
4.0	Providing and fixing brass bib tap of approved make and quality, size 15 mm (½"), weight not less than 400 grams, with chromium-plated finish, including necessary fittings, Teflon tape, and making good the wall surface, complete as per specification and Engineer's instruction.	NO.	3.00			
5.0	Providing and fixing Stainless Steel (SS) soap tray of approved design and quality, made from 304 grade stainless steel, size approximately 100 mm x 75 mm, with wall mounting arrangement, including all necessary screws, rawl plugs, and installation accessories, complete as per manufacturer's specification and Engineer's instruction.	NO.	3.00			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6.0	Providing and fixing PVC floor trap of approved make and quality, size 75 mm (or 100 mm as required), with deep water seal (minimum 50 mm), including grating, trap body, and necessary solvent cement joints, complete with testing and ready for operation, as per drawing and specification.	NO.	3.00			
7.0	Providing and fixing CP/satin-finish foldable (flip-up) support bar for accessible WC, economy model, fabricated in Aluminium alloy or SS201, 700–750 mm long, Ø 32 mm, with concealed wall mounting plate (min. 4 anchors) and parking clip, capable of minimum 120 kg safe working load, complete with SS304 fasteners, chemical anchors, escutcheon covers and all accessories; installed at 680–700 mm from finished floor level, as per NBC Barrier-Free guidelines and as directed by the Engineer; including transportation, overheads, finishing, installation, testing and making good the wall surface	SET	1.00			
8.0	Providing and fixing straight grab bar of 40 mm diameter, fabricated from Stainless Steel (SS201 or SS304 economy grade), length 450–600 mm, with CP (Chrome Plated) or satin finish, complete with concealed wall flanges, corrosion-resistant fasteners, and escutcheon covers; installed at appropriate height as per NBC Barrier-Free guidelines and as directed by Engineer-in-Charge; including transportation, overheads, finishing, installation, testing and making good the wall surface	NO.	1.00			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
9.0	Providing and fixing 15 mm dia CP (Chrome Plated) commode spray with plastic head and flexible PVC hose (minimum 1.0 m length), complete with wall-mounted CP holder, brass coupling, and necessary CP brass stop cock; including all accessories, corrosion-resistant fasteners, testing for leak-proof performance, transportation, overheads, finishing, installation and making good the wall surface (excluding VAT), all complete as directed by Engineer	NO.	1.00			
II.	WATER SUPPLY INSTALLATION					
10.0	CPVC pipes SDR-11 including MS clamps and brackets, nails and hooks, and all necessary CPVC/Brass specials required for complete installation, cutting, jointing, sealing of joints etc, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications and instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately.					
	- 25 mm	R M	20.00			
	- 20 mm	R M	20.00			
	- 15 mm	R M	2.00			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
11.0	Galvanised Iron Pipe of Medium Class including MS clamps and brackets, nails and hooks, and all necessary GI specials required for complete installation, cutting, jointing, sealing of joints etc, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications and instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately.					
	- 50 mm	R M	20.00			
	- 40 mm	R M	20.00			
12.0	CPVC Ball Valve					
	- 40 mm	NO.	1.00			
	- 25 mm	NO.	2.00			
13.0	1000 litres capacity Nepatop or Rooftop or equivalent brand Plastic cyllindrical vertical water storage tank complete with inter-connection, overflow, washout and vents	NO.	1.00			

ABSTRACT OF COSTS- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>KHOLATOLE</i>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
III.	SEWER, RAIN AND WASTE WATER INSTALLATION					
14.0	PVC SWR (Soil, Waste, Rain) pipes with all necessary ring gaskets, PVC fittings, including MS clamps, hangers, cutting, jointing, sealing, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications, manufacturer's recommendations, instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately.					
	- 110 mm ED 6 kg/sqcm	R M	20.00			
	- 75 mm ED 6 kg/sqcm	R M	20.00			
	- 50 mm ED 6 kg/sqcm	R M	2.00			
	C. SANITARY AND PLUMBING WORKS					
	D. TOTAL OF CIVIL AND ARCHITECTURE WORKS, ELECTRICAL WORKS AND SANITARY AND PLUMBING WORKS					

PROJECT: SOS CHILDREN'S VILLAGES NEPAL - COMMUNITY BASED FAMILY STRENGTHENING PROGRAM (CBFSP): CONSTRUCTION WORKS, KARJAHNA

CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Badaraamaal, Ward No.5, Karjahna

TYPE OF BUILDING: School Toilet Building (1 no.)

ABSTRACT OF COST- PRELIMINARY WORKS- <u>SCHOOL TOILET BUILDING</u>						
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 accommodation for labours and site staff with required suitable facilities and keeping the same in good hygienic 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 accommodation to the Contractor's team, the Contractor shall quote an amount, deemed reasonable for temporary accommodation 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			

3.0	PROJECT INFORMATION BOARD					
	Providing and fixing of Project Information board with approved Text in appropriate location including all required fixing accessories as per drawing all complete.	NO.	1			
4.0	SAFETY SIGN BOARD					
	Providing and Fixing of Safety Sign Board with approved Text and Sinage including required fixing accessories as per drawing all complete.	NO.	1			
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.	35.00			
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			
		TOTAL				

PROJECT: SOS CHILDREN'S VILLAGES NEPAL - COMMUNITY BASED FAMILY STRENGHTENING PROGRAM (CBFSP): CONSTRUCTION WORKS, KARJAHNA

CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Badaraamaal, Ward No.5, Karjahna

TYPE OF STRUCTURE: School Toilet Building

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>SCHOOL TOILET BUILDING</u>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
A.	CIVIL WORKS					
1	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.FT.	506.52			
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.FT.	1,408.17			

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- SCHOOL TOILET BUILDING

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.FT.	1,219.25			
2	FLAT BRICK SOLING					
	Providing and laying one layer of flat brick soling using well-burnt brick of approved quality, laid strictly in line and level on the prepared sub-base; bricks to be laid flat, close-packed, with joints filled with local sand; including all labor, materials, hand packing, watering, dressing, leveling, and all necessary tools and equipment; complete as per drawings, specifications, and instructions of the Engineer.	SQ.FT.	366.22			
3	CONCRETE WORKS					
3.1	P.C.C					
3.1.1	P.C.C (1:3:6) Works					
	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:3:6 (1 cement : 3 sand : 6 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.FT.	91.55			

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- SCHOOL TOILET BUILDING

3.2	P.C.C. FOR R.C.C. WORKS					
	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, all complete as per drawings, specifications and instructions of the Engineer.	CU.FT.	506.75			
3.3	STEEL REINFORCEMENT					
	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 lapping for the bar length exceeding 10 meter in length shall be measured for the payment, except to column).	TON	1.423			
3.4	FORM WORKS					
	Supplying and Fixing in position centering, shuttering of various pattern formworks with 19/12 mm thick water proof ply wood with 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.FT.	1,148.09			
4	BRICK MASONRY WORKS					

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- SCHOOL TOILET BUILDING

4.1	BRICK MASONRY WORKS (1 : 4 C/S)					
	Providing and laying first class chimney fired brick one or more brick thick wall in cement mortar 1:4 (1 cement : 4 coarse sand) in foundation up to plinth, 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.FT.	347.98			
4.2	HALF BRICK WORKS (1 : 4 C/S)					
	Providing and laying non-fairfaced half brick work masonry in cement mortar 1:4 (1 cement:4 sand) in superstructure with approved first class fired bricks in perfect line & level, required size and shape at any height and level, including the cost of single or multi stage scaffolding, cleaning, soaking of the bricks, packing of the joints, raking joints, provision for recesses, openings, curing, providing 25x3mm GI Straps Fixed to columns at every 5th course of brick and 60mm width 14 gauge welded GI mesh anchored to GI strap, all complete as per design, drawing, specifications instructions of the Engineer.	SQ.FT.	759.42			
4.3	HONEY COMB BRICK WORKS (1:3 C/S)					
	Providing and laying honey comb brick one or more brick thick wall in cement mortar 1:3 (1 cement : 3 coarse sand) insoak pit in all heights and level including the cost of soaking bricks, curing, raking joints, provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer.	CU.FT.	21.21			
5	DOORS & WINDOWS WORKS					
5.1	WOODEN DOOR					

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- SCHOOL TOILET BUILDING

5.1.1	DOOR FRAME (SALWOOD)					
	Supply and installation of Malaysian Sal wood door frames of approved quality, seasoned and free from defects such as knots, cracks, or decay; Frame sections to be minimum 100 mm × 75 mm (or as per design/drawing); All joints to be properly mortised and tenoned, glued, and pinned for strength; Frame to include necessary holdfasts (MS flat, 25 mm × 6 mm) embedded in walls with cement mortar; Surface to be smoothly dressed and sanded, ready for painting or polishing, all complete as detailed in drawing, specification and instructions of the Engineer.	CU.FT.	8.31			
5.1.2	FLUSH DOOR SHUTTER (32MM)					
	Providing & fixing 32mm thick solid core flush door shutters, in single leaf or double leaf as per detailed drawing. The flush doors shall be factory made solid core block board shutters bonded with phenol formaldehyde resin. The lipping shall be of teakwood all-round the flush door with a minimum thickness of 12mm. The following C.P. fittings shall be used: (a) - 2-150 mm Handles in each leaf; (b) Tower-bolt – 300 mm long at top 1 in each leaf and 200 at bottom in each leaf; (c) 1 no. 300 mm long C.P. Aldrops with Godrej made padlock; (d) 125 mm heavy duty GI But Hinges 3 nos. in each leaf (rate shall include all required door hardware), all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.FT.	117.25			
5.2	Aluminum Louvre Ventilation					
	Supply and installation of Aluminum louvre ventilation unit, size 600 mm × 900 mm (2' × 3'), powder-coated finish, complete with frame, blades, and necessary fixing accessories. Install in toilet wall as per approved drawings, ensuring proper alignment, airtight sealing around frame, and adequate provision for drainage and airflow. All work shall conform to manufacturer's recommendations and relevant standards, all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.FT.	48.00			

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>SCHOOL TOILET BUILDING</u>					
5.3	MS Grill (only at Girls' Toilet)				
	Providing, MS solid bars of required size 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 Zinc Rich Primer base coat, etc., all complete as detailed in drawing, specification and instructions of the Engineer.	SQ.FT.	18.00		
6	FLOORING WORKS				
6.1	HARDENED CEMENT CONCRETE FLOOR				
	Providing, laying in required line, level and pattern 40 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) laid in alternate panel or providing Glass dividing strips and finished with approved floor hardener applied as per manufacturer's instructions 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.FT.	329.73		
6.2	NEAT CEMENT SKIRTING				
	- do - as above, but for 100 mm high skirting.	R.FT.	180.70		
7	TILE WORKS				
7.1	WALL TILE				
	Providing and laying 8 mm Kajaria DuraTech ceramic wall tiles or equivalent of approved shade and design, size 300×300 mm (or as required), laid on a 12 mm thick cement mortar (1:4) bedding, including surface preparation, curing, mixing, laying in required proportions and slope, finishing using appropriate power trowelling equipment, joints filled with white cement mixed with pigment to match tile shade, all necessary materials, labor, and equipment complete as per specifications, drawings and instructions of the Engineer.	SQ.FT.	184.80		

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- SCHOOL TOILET BUILDING

7.2	FLOOR TILE					
	Providing and laying (9-10) mm Kajaria vitrified floor tiles or equivalent of approved shade and design, size 300×300 mm (or as specified), with water absorption less than 0.5%, anti-skid matte finish, suitable for wet areas, laid on a 20 mm thick cement mortar (1:4) bedding, including surface preparation, curing, mixing, laying in required proportions and slope, finishing using appropriate power trowelling equipment, joints filled with epoxy grout, all necessary materials, labor, and equipment complete as per , drawings and instructions of the Engineer.	SQ.FT.	151.20			
8	PLASTER WORKS					
8.1	INTERNAL PLASTER (1:3 C:S)					
	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.FT.	1,393.17			

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- SCHOOL TOILET BUILDING

8.2	EXTERNAL PLASTER (1:3 C:S)					
	Providing and applying at all levels and shape 20 mm thick cement plaster in building exterior in specified cement mortar with 1:6 (1 cement :6 fine sand) 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.FT.	962.47			
9	PAINTING WORKS					
9.1	DISTEMPER PAINT					
	Providing and applying two or more coats of washable 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.FT.	1,393.17			
9.2	EXTERIOR WEATHER COAT PAINT					
	Providing and applying two or more coats of first quality hundred percent acrylic paint of approved shade and pattern to the exterior walls of buildings etc., The rates shall include for scrapping , washing the surface with water, applying a coat of approved quality water base cement primer, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.	SQ.FT.	962.47			
10	MISCELLANEOUS					

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <i>SCHOOL TOILET BUILDING</i>						
10.1	RAILING					
	Providing, fabrication as per design drawings and installation in position 50mm ø SS handrail with 50mm ø post in 2m interval with 25mm ø 3 no.s SS pipe in horizontal with 3' height, in staircase, verandah and other areas including cutting to required shape and size, welding joints, installation of base anchor plates of appropriate size with required numbers of expansion bolts of required size, providing required size bends, finishing weld joints to produce smooth surface, applying one coat of metal primer and two or more coats of enamel paint of required shade, etc., all complete as per drawings, specifications and instruction of the Engineer.	R.F.T.	7.50			
	A. TOTAL OF CIVIL AND ARCHITECTURE WORKS					

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>SCHOOL TOILET BUILDING</u>					
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 accommodate stand alone 40 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		
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 accommodate 6 A Din Bar mounted DP MCB as a stand alone protection breaker required at Admin or Main 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.				
2.1	2 Nos 10 Sq mm Multistranded Cu Wire + 1 No 6 Sq mm Multistranded Cu wire	RM	25		
2.2	2 Nos 2.5 Sq mm Multistranded Cu Wire + 1 No 1.5 Sq mm Multistranded Cu wire	RM	25		

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- SCHOOL TOILET BUILDING

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.					
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.	13			
4.2	Exhaust Fan Point Wiring	PTS.	2			

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- SCHOOL TOILET BUILDING

5.0 Exhaust Fans					
Supply, installation, interconnection, testing and commissioning and putting into operation of 300 mm ø exhaust fans, full copper motor with silent operation, as per drawing specification including the extended hanging rod as deemed. Exhaust fan shall have operational louver and switching shall be made by modular switch and fan terminals shall be connected via ceiling rose. Make: Finolex/Usha/Bajaj or equivalent with minimum 1 year warranty .					
5.1 300 mm dia M/D exhaust fan	NO.	2			
6.0 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.					
6.1 Supplying and fixing 6W LED electric bulb (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.	13			
B. TOTAL OF ELECTRICAL WORKS					

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>SCHOOL TOILET BUILDING</u>					
C. SANITARY AND PLUMBING WORKS					
Providing and fixing in position of all work items with all necessary fittings complete with testing and ready for operation as per drawings, specifications, manufacturer's recommendations and instructions. The rate shall include for position marking, maintain line, level or grade wherever required, sand filling/compaction, earth cutting and backfilling, cutting, chasing of walls, plasters or tiles etc. and making good and touching up to restore to original conditions wherever instructed and applicable for any of the items below.					
Sanitaryware: Local brands with minimum 2 years warranty					
CP Fixtures: Parryware or equivalent with minimum 3 years warranty					
SWR Pipes: Nepatop / Marvel / Supreme PVC or equivalent with minimum 1 year warranty					
Cold Water Supply Pipe and fittings: Marvel/ Mangalam/ Hilltake CPVC or equivalent with minimum 10 years warranty					
Gun Metal Gate Valve: LEADER/SANT or equivalent with minimum 2 year warranty					
Ball Valve: Marvel/ Mangalam/ Hilltake or equivalent with minimum 2 year warranty					
I. SANITARY INSTALLATION					
1.0 White glazed earthenware Indian Pattern Water Closet set with standard bakelite seat cover, PVC low level flushing cistern (dual flush (3 liters half flush/6 liters full flush) with flush pipe and cistern accessories, bracket, CP angular cock, PVC connector pipe complete with testing and ready for operation	SET	1.00			
2.0 580*480mm Porcelain clay white glazed Orissa Pan with low level cistern (6 litre flush) with complete set all accessories fittings complete with testing and ready for operation	NO.	3.00			
3.0 White glazed earthenware wall-hung Hand wash basin of size 550x400mm with 15 mm PVC connector with both ends couplings, 15mm CP angular cock -1 no, 15mm CP Pillar Cock, 32mm PVC P-trap, waste coupling with testing and ready for operation	NO.	4.00			
4.0 Providing and fixing brass bib tap of approved make and quality, size 15 mm (½"), weight not less than 400 grams, with chromium-plated finish, including necessary fittings, Teflon tape, and making good the wall surface, complete as per specification and Engineer's instruction.	NO.	3.00			

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- SCHOOL TOILET BUILDING

5.0	Providing and fixing Stainless Steel (SS) soap tray of approved design and quality, made from 304 grade stainless steel, size approximately 100 mm x 75 mm, with wall mounting arrangement, including all necessary screws, rawl plugs, and installation accessories, complete as per manufacturer's specification and Engineer's instruction.	NO.	4.00			
6.0	Providing and fixing PVC floor trap of approved make and quality, size 75 mm (or 100 mm as required), with deep water seal (minimum 50 mm), including grating, trap body, and necessary solvent cement joints, complete with testing and ready for operation, as per drawing and specification.	NO.	5.00			
7.0	Providing and fixing CP/satin-finish foldable (flip-up) support bar for accessible WC, economy model, fabricated in Aluminium alloy or SS201, 700–750 mm long, Ø 32 mm, with concealed wall mounting plate (min. 4 anchors) and parking clip, capable of minimum 120 kg safe working load, complete with SS304 fasteners, chemical anchors, escutcheon covers and all accessories; installed at 680–700 mm from finished floor level, as per NBC Barrier-Free guidelines and as directed by the Engineer; including transportation, overheads, finishing, installation, testing and making good the wall surface	SET	1.00			
8.0	Providing and fixing straight grab bar of 40 mm diameter, fabricated from Stainless Steel (SS201 or SS304 economy grade), length 450–600 mm, with CP (Chrome Plated) or satin finish, complete with concealed wall flanges, corrosion-resistant fasteners, and escutcheon covers; installed at appropriate height as per NBC Barrier-Free guidelines and as directed by Engineer-in-Charge; including transportation, overheads, finishing, installation, testing and making good the wall surface	NO.	1.00			
9.0	Providing and fixing 15 mm dia CP (Chrome Plated) commode spray with plastic head and flexible PVC hose (minimum 1.0 m length), complete with wall-mounted CP holder, brass coupling, and necessary CP brass stop cock; including all accessories, corrosion-resistant fasteners, testing for leak-proof performance, transportation, overheads, finishing, installation and making good the wall surface (excluding VAT), all complete as directed by Engineer	NO.	1.00			

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- SCHOOL TOILET BUILDING

10.0	Proving and fixing urinal partition made of PVC-coated board or equivalent composite material, size 675 mm × 400 mm, with rounded edges, mounted on stainless steel/aluminum brackets, including all necessary screws, wall plugs, and sealant, complete with making good the wall surface.	NO.	2.00			
II. WATER SUPPLY INSTALLATION						
11.0	CPVC pipes SDR-11 including MS clamps and brackets, nails and hooks, and all necessary CPVC/Brass specials required for complete installation, cutting, jointing, sealing of joints etc, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications and instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately.					
	- 25 mm	R M	20.00			
	- 20 mm	R M	20.00			
	- 15 mm	R M	5.00			
12.0	Galvanised Iron Pipe of Medium Class including MS clamps and brackets, nails and hooks, and all necessary GI specials required for complete installation, cutting, jointing, sealing of joints etc, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications and instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately.					
	- 50 mm	R M	6.00			
	- 40 mm	R M	6.00			
13.0	CPVC Ball Valve					
	- 40 mm	NO.	1.00			
	- 25 mm	NO.	2.00			

BILL OF QUANTITIES- CIVIL, ELECTRIC, SANITARY AND PLUMBING WORKS- <u>SCHOOL TOILET BUILDING</u>						
14.0	1000 litres capacity Nepatop or Rooftop or equivalent brand Plastic cylindrical vertical water storage tank complete with inter-connection, overflow, washout and vents	NO.	1.00			
III. SEWER, RAIN AND WASTE WATER INSTALLATION						
15.0	PVC SWR (Soil, Waste, Rain) pipes with all necessary ring gaskets, PVC fittings, including MS clamps, hangers, cutting, jointing, sealing, installation of pipes and specials including making holes and cutting grooves on walls or floor and repairing the same to its original finish. Pipes to be installed on trenches or walls or floor or duct as per drawings, specifications, manufacturer's recommendations, instructions, cleaning of the system, testing and ready for operation. The rate shall include for all labour and materials required. The measurement shall be done for running meters, fittings etc not payable seperately.					
	- 110 mm ED 6 kg/sqcm	R M	10.00			
	- 75 mm ED 6 kg/sqcm	R M	10.00			
	- 50 mm ED 6 kg/sqcm	R M	2.00			
C. SANITARY AND PLUMBING WORKS						
D. TOTAL OF CIVIL AND ARCHITECTURE WORKS, ELECTRICAL WORKS AND SANITARY AND PLUMBING WORKS						

PROJECT: SOS CHILDREN'S VILLAGES NEPAL - COMMUNITY BASED FAMILY STRENGTHENING PROGRAM (CBFSP): CONSTRUCTION WORKS, KARJAHNA

CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Bhulke, Ward No.4, Karjahna

TYPE OF STRUCTURE: Site Development Works

ABSTRACT OF COST- PRELIMINARY WORKS- <u>BHULKE</u>						
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			
3.0	PROJECT INFORMATION BOARD					
	Providing and fixing of Project Information board with approved Text in appropriate location including all required fixing accessories as per drawing all complete.	NO.	1			
4.0	SAFETY SIGN BOARD					
	Providing and Fixing of Safety Sign Board with approved Text and Sinage including required fixing accessories as per drawing all complete.	NO.	1			

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.	20.00			
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			
		TOTAL				

PROJECT: SOS CHILDREN'S VILLAGES NEPAL - COMMUNITY BASED FAMILY STRENGTHENING PROGRAM (CBFSP): CONSTRUCTION WORKS, KARJAHNA

CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Bhulke, Ward No.4, Karjahna

TYPE OF STRUCTURE: Boundary wall with Chain Link Fencing

BILL OF QUANTITIES- SITE DEVELOPMENT WORKS- <u>BHULKE</u>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT
A.	CIVIL WORKS					
1	EARTH WORKS					
1.1	SITE CLEARANCE					
	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.FT.	3,388.90			
1.2	EARTHWORKS 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.FT.	333.55			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT
1.3	EARTHWORKS IN BACKFILL					
	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.FT.	2,703.64			
2	FLAT BRICK SOLING					
	Providing and laying one layer of flat brick soling using well-burnt brick of approved quality, laid strictly in line and level on the prepared sub-base; bricks to be laid flat, close-packed, with joints filled with local sand; including all labor, materials, hand packing, watering, dressing, leveling, and all necessary tools and equipment; complete as per drawings, specifications, and instructions of the Engineer.	SQ.FT.	125.04			
3	CONCRETE WORKS					
3.1	PCC WORKS (1:3:6)					
	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:3:6 (1 cement : 3 sand : 6 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.FT.	42.04			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT
3.2	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, all complete as per drawings, specifications and instructions of the Engineer.	CU.FT.	14.38			
3.3	STEEL REINFORCEMENT					
	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 lapping for the bar length exceeding 10 meter in length shall be measured for the payment, except to column).	TON	0.10			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT
3.4	FORMWORKS					
	Supplying and Fixing in position centering, shuttering of various pattern formworks with 19/12 mm thick water proof ply wood with 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.FT.	255.31			
4	BRICK WORKS					
4.1	FULL BRICKWORKS (1:4)					
	Providing and laying first class chimney fired brick one or more brick thick wall in cement mortar 1:4 (1 cement : 4 coarse sand) in foundation up to plinth, 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.FT.	271.45			
5	PLASTER WORKS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT
5.1	EXTERNAL PLASTER					
	Providing and applying at all levels and shape 20 mm thick cement plaster in building exterior in specified cement mortar with 1:6 (1 cement :6 fine sand) 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.FT.	510.67			
6	PAINT WORKS					
6.1	EXTERIOR WEATHER COAT PAINT					
	Providing and applying two or more coats of first quality hundred percent acrylic paint of approved shade and pattern to the exterior walls of buildings etc., The rates shall include for scrapping , washing the surface with water, applying a coat of approved quality water base cement primer, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.	SQ.FT.	510.67			
7	METAL WORKS FOR FENCE					
	Providing and installation in position MS angles of required sizes as shown in drawings for line, corner, end, bracing post, top and bottom rail including applying one coat Zinc Rich Primer and painting with two coat of zinc paint, etc., all complete as per drawings, specification and instruction of the Engineer.	KG	297.56			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT
8	CHAIN LINK FENCE (50 x 50 MESH)					
	Providing 1.2 meter high chain link fence having mesh size 50mm x 50mm woven with SWG 10 heavy GI coated wire with 40x40x5 mm ISA line post spaced at 3.0 meter center to center, 40x40x5 mm corner and end post , 40x40x5 mm ISA bracing post at every 30 meter straight run and at every change in direction more than 15 degree and at end and corner post, 40x6 mm Flat Bar as top rail and Tension wire 4mm/8SWG as bottom rail including installation of all post by excavating hole and filling with concrete 1:3:6 (1 cement : 3 sand : 6 stone aggregate 20 mm and down grade), rails, stretching chain link fabric, fixing chain link fabric securely in all post, top and bottom rail, etc., all complete as per drawings, specification and instruction of the Engineer. MS work, excavation for foundation and concreting shall be paid separately.	SQ.FT.	651.80			
9	MISCELLANEOUS					
9.1	MS LOCKABLE MANHOLE COVER FRAME					
	Providing, fabricating, and installing Mild Steel (MS) lockable manhole cover with frame, manufactured from approved quality MS plates and angles; cover plate thickness not less than 6 mm (or project requirement), with supporting stiffeners as required; frame fabricated from MS angle/flat of approved size; including provision of locking arrangement, lifting hooks, proper seating to ensure smooth opening and closing; applying one coat of anti-corrosive primer and two coats of enamel paint; fixing in position over manhole chamber with necessary mortar/bolts; complete in all respects as per drawings, specifications, and Engineer's instruction.	SET	1.00			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT
9.2	SUBMERSIBLE WATER PUMP (1 HP)					
	Supplying, delivering, installing, testing, and commissioning a 1 HP submersible water pump of approved make; suitable for three-phase; pump constructed with corrosion-resistant impeller and body, designed for continuous duty; including necessary accessories such as HDPE/UPVC/GI delivery pipe, cable (flat submersible cable), non-return valve, clamps, lowering rope, starter/control panel, earthing arrangement; complete with all electrical connections, fittings, labour, equipment, and incidentals; installed as per manufacturer's recommendation and Engineer's instruction.	SET	1.00			
	A. TOTAL OF SITE DEVELOPMENT WORKS					

PROJECT: SOS CHILDREN'S VILLAGES NEPAL - COMMUNITY BASED FAMILY STRENGTHENING PROGRAM (CBFSP): CONSTRUCTION WORKS, KARJAHNA

CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Badaraamaal, Ward No.5, Karjahna

TYPE OF STRUCTURE: Site Development Works

ABSTRACT OF COST- PRELIMINARY WORKS- <u>BADARAAMAAL</u>						
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			

3.0	PROJECT INFORMATION BOARD					
	Providing and fixing of Project Information board with approved Text in appropriate location including all required fixing accessories as per drawing all complete.	NO.	1			
4.0	SAFETY SIGN BOARD					
	Providing and Fixing of Safety Sign Board with approved Text and Sinage including required fixing accessories as per drawing all complete.	NO.	1			
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.	40.00			
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			
		TOTAL				

PROJECT: SOS CHILDREN'S VILLAGES NEPAL - COMMUNITY BASED FAMILY STRENGTHENING PROGRAM (CBFSP): CONSTRUCTION WORKS, KARJAHNA

CLIENT: SOS CHILDREN'S VILLAGES NEPAL

LOCATION: Badaraamaal, Ward No.5, Karjahna

TYPE OF STRUCTURE: Boundary wall with Chain Link Fencing

BILL OF QUANTITIES- SITE DEVELOPMENT WORKS- <u>BADARAAMAAL</u>						
S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
A.	CIVIL WORKS					
1	EARTH WORKS					
1.1	SITE CLEARANCE					
	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.FT.	1,161.91			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
1.2	EARTHWORKS 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.FT.	293.26			
1.3	EARTHWORKS IN BACKFILL					
	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.FT.	205.28			
2	FLAT BRICK SOLING					
	Providing and laying one layer of flat brick soling using well-burnt brick of approved quality, laid strictly in line and level on the prepared sub-base; bricks to be laid flat, close-packed, with joints filled with local sand; including all labor, materials, hand packing, watering, dressing, leveling, and all necessary tools and equipment; complete as per drawings, specifications, and instructions of the Engineer.	SQ.FT.	110.28			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
3	CONCRETE WORKS					
3.1	PCC WORKS (1:3:6)					
	Providing and laying machine mixed Plain Cement Concrete of nominal mix 1:3:6 (1 cement : 3 sand : 6 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.FT.	57.36			
3.2	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, all complete as per drawings, specifications and instructions of the Engineer.	CU.FT.	11.24			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
3.3	STEEL REINFORCEMENT					
	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 lapping for the bar length exceeding 10 meter in length shall be measured for the payment, except to column).	TON	0.08			
3.4	FORMWORKS					
	Supplying and Fixing in position centering, shuttering of various pattern formworks with 19/12 mm thick water proof ply wood with 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.FT.	217.49			
4	BRICK WORKS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
4.1	FULL BRICKWORKS (1:4)					
	Providing and laying first class chimney fired brick one or more brick thick wall in cement mortar 1:4 (1 cement : 4 coarse sand) in foundation up to plinth, 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.FT.	155.96			
5	PLASTER WORKS					
5.1	EXTERNAL PLASTER					
	Providing and applying at all levels and shape 20 mm thick cement plaster in building exterior in specified cement mortar with 1:6 (1 cement :6 fine sand) 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.FT.	433.20			
6	PAINT WORKS					

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
6.1	EXTERIOR WEATHER COAT PAINT					
	Providing and applying two or more coats of first quality hundred percent acrylic paint of approved shade and pattern to the exterior walls of buildings etc., The rates shall include for scrapping , washing the surface with water, applying a coat of approved quality water base cement primer, surface preparation, scaffolding etc., all complete as per the manufacturer's recommendations and as approved by the Engineer.	SQ.FT.	433.20			
7	METAL WORKS FOR FENCE					
	Providing and installation in position MS angles of required sizes as shown in drawings for line, corner, end, bracing post, top and bottom rail including applying one coat Zinc Rich Primer and painting with two coat of zinc paint, etc., all complete as per drawings, specification and instruction of the Engineer.	KG	253.48			

S.N.	DESCRIPTION OF WORKS	UNIT	QUANTITY	RATE IN FIGURE (NPR)	RATE IN WORDS (NPR)	AMOUNT (NPR)
8	CHAIN LINK FENCE (50 x 50 MESH)					
	Providing 1.2 meter high chain link fence having mesh size 50mm x 50mm woven with SWG 10 heavy GI coated wire with 40x40x5 mm ISA line post spaced at 3.0 meter center to center, 40x40x5 mm corner and end post , 40x40x5 mm ISA bracing post at every 30 meter straight run and at every change in direction more than 15 degree and at end and corner post, 40x6 mm Flat Bar as top rail and Tension wire 4mm/8SWG as bottom rail including installation of all post by excavating hole and filling with concrete 1:3:6 (1 cement : 3 sand : 6 stone aggregate 20 mm and down grade), rails, stretching chain link fabric, fixing chain link fabric securely in all post, top and bottom rail, etc., all complete as per drawings, specification and instruction of the Engineer. MS work, excavation for foundation and concreting shall be paid separately.	SQ.FT.	555.24			
	A. TOTAL OF SITE DEVELOPMENT WORKS					