

# **11.1**

## **Bill of Quantities**

### **(BoQs)**

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**Bill of Quantities(BOQ)**

Kaina Health Post, Nalgad W.N.3 Kaina

Project: Reconstruction of Public Infrastructure, Health Post Building, Nalgad Jajarkot

Location of Site: Nalgad Municipality W.N. 3, Kaina Jajarkot

**BoQ:3**

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
<b>A</b>	<b>PROVISIONAL SUM</b>						
1.00	Provide Contractor's All Risk (CAR) policy insurance for the loss of damage to works, plant, material, equipment, property and personnel injury or death as per specification and instructions of approved engineer all complete.	P.S	1.00	60,000.00	Sixty Thousand Rupees only/-	60,000.00	
2.00	Provision of laboratory tests outside the Site Laboratory ( <b>Independent Laboratory</b> ) as per the specification and approval of the engineers up to the completion of the project.	P.S	1.00	50,000.00	Fifty Thousand Rupees only/-	50,000.00	
<b>B</b>	<b>CIVIL WORKS</b>						
3.00	<b>Site Clearance Works:</b> Clearing the required area of the Site of all the top soil, vegetation, roots and other unuseful materials including leveling, removing bushes, trees; stacking the useful items in specified space and disposing other items as per drawing, specifications & instruction of site engineer all complete.	Sq.m	260.18				
4.00	<b>Hydraulic Excavation:</b> Excavation in any kind of soils at all levels for all types of structures, including shoring, strutting, pumping and bailing out water, de-watering if any so as to keep foundations in dry condition at any stage of work, drain the water away from the site through sub drain and connecting into main drain, stacking the excavated earth at proper place near site for refill using mechanical means as per drawing, specifications & instruction of site engineer all complete.	Cu.m	172.08				
5.00	<b>Manual Excavation:</b> Earthwork in excavation in all types of soil manually including timbering and shoring as per design, drawing, specification & instruction of site Engineer all complete.	Cu.m	79.30				
6.00	<b>Earth Filling Works:</b> Filling of excavated earthwork in layers of 150mm with sprinkling water and compaction in foundation, flower bed, steps etc as per drawing, specification & instruction of site Engineer all complete.	Cu.m	65.49				
7.00	Supplying and filling broken pieces of CSEB blocks in layers with proper compaction in foundation ramming and levelling as per design, drawing, specification and instruction of site engineer all complete.	Cu.m	27.05				
8.00	<b>Disposal works</b> of excessive excavated soil outside from site area including labour and transportation all complete as per specification & instruction of site Engineer all complete.	Cu.m	78.16				
9.00	<b>Stone Soling Works:</b> Supplying and Laying of Stone Soling in foundation with approved quality of stone with sand filling in joints, ramming and levelling as per design, drawing, specification and instruction of site engineer all complete.	Cu.m	62.80				

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10.00	Plain Cement Concrete (PCC) with cement, sand and crushed aggregate in 1:2:4 ratio including mixing, laying, curing and finishing all complete as per drawing, specification and instruction of site Engineer.	Cu.m	38.77				
11.00	RCC Works (M20): Structural Concrete in any form,size, shape and level for all Reinforced Cement Concrete (R.C.C) works with cement, sand and crushed aggregate in Nominal mix 1:1.5:3 ratio (M20) including mixing, laying, compacting, finishing and curing all complete as per drawing, specification and instruction of site Engineer.	Cu.m	32.48				
12.00	Reinforcement Works: Providing, straightening, cleaning, cutting, fabricating, bending and placing TMT(Fe 500) for stirrups, ties and main reinforcement bars and binding the bars with 18 gauge annealed wire for tying them at each junction and also placing vertical rebars in CSEB masonry work as per design, drawings and details for all types of R.C.C elements including all waste and cut pieces, provision for spacers, chairs, providing and placing cement mortar (1:1) cover blocks to keep the bars in the intended position at all levels as per drawing,specification, instruction and approval of engineer all complete.	Kg.	6,093.98				
13.00	Formworks: Centering and shuttering with approved 12mm waterproofing plywood for all R.C.C.works of any shape size and at any level with necessary propping scaffolding, staging supporting, cutting holes for utilization works and removal of formwork and lead upto 30 m etc as per drawing, specification, instruction and approval of engineer all complete. (For Beam)	Sq.m	114.41				
14.00	Formworks: Centering and shuttering with approved 12mm waterproofing plywood for all R.C.C.works of any shape size and at any level with necessary propping scaffolding, staging supporting, cutting holes for utilization works and removal of formwork and lead upto 30 m etc as per drawing, specification, instruction and approval of engineer all complete. (For Slab)	Sq.m	108.93				
15.00	Stone masonry work in (1:6) cement sand mortar with approved quality stone upto ground floor in perfect line and level including wetting the stone, packing the joints and curing, with necessary scaffolding work, including supplying of all materials, labour, lead and lift work as per design, drawings, specifications and instructions of the site engineer all complete.	Cu.m	147.02				
16.00	Pointing Works on stone masonry: Supplying and laying pointing works with (1:1) cement sand mortar on stone masonry wall surfaces of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	sqm	93.93				
17.00	CSEB Masonry Works Upto Ground Floor (230mm thick) : CSEB masonry work in (1:4) cement sand mortar upto ground floor with approved quality in perfect line and level including wetting the CSEB ,packing the joints and curing , with necessary scaffolding work ,including supplying of all materials , labour, lead and lift, work all complete as per design, drawing, specification and approval of site Engineer.	Cu.m	16.00				

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18.00	CSEB Masonry Works Upto Ground Floor (300mm thick) : CSEB masonry work in (1:4) cement sand mortar upto ground floor with approved quality in perfect line and level including wetting the CSEB ,packing the joints and curing , with necessary scaffolding work ,including supplying of all materials , labour, lead and lift, work all complete as per design, drawing, specification and approval of site Engineer.	Cu.m	54.07				
19.00	Salwood Chaukhat frame works for doors & windows as approved by site incharge such that the timber used must be first class kiln seasoned and preservative treated sal wood, to shape and profile as shown in the drawings with mitred joints including providing and fixing necessary MS hold fasts ( 20 X 6 mm) 300 mm long, 3 nos at each side, and concrete (1:2:4) block grouting for fixing the holdfast and anchor fasteners/ coach screws Frames must be erected in absolute plumb and level as per design, drawings, specifications and instructions of the site engineer all complete.	cum	1.45				
20.00	Agrakh Panel Door: Supplying & fitting 38mm thick panel Door of Nepali Agrakh including hardware (hinges, Mortice lock, H-Handle, Door Closer, tower bolt etc with all necessary accessories) as per drawings, specification & instruction of site Engineer all complete.	sqm	16.07				
21.00	Ready made Hard CoreTeak wood Doors: Supplying and fitting Ready made Hard CoreTeak wood Doors,special (Seasoned and Poisoned treated ,one side teak and other side water proof ply fitting) with all necessary hardware all complete as per specification, instructions and drawing and approval of engineer.	sqm	7.88				
22.00	Window Shutter: Supplying & fitting 38mmx75mm frame of Nepali Agrakh fitted with 5mm thick glass including hardware (Hinges, Towerbolt, Handle, etc with all necessary accessories) as per drawings, specification & instruction of site Engineer all complete.	sqm	22.97				
23.00	Wooden Tundal Works : Salwood works used for Tundal as approved by site incharge such that the timber used must be first class kiln seasoned and preservative treated sal wood, to shape and profile as shown in the drawings with mitred joints including providing and fixing necessary accessories as per design, drawings, specifications and instructions of the site engineer all complete.	cum	0.14				
24.00	Plaster Works (on walls): Supplying and laying 12.5 mm thick cement plastering work in (1:4) cement mortar on walls of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	Sq.m	433.29				
25.00	Plain White Putty Works (on internal Walls & ceiling): Providing and laying 2mm thick Plain White Putty on internal walls & ceiling surfaces with proper finishing , work all complete as per specification and approval of site Engineer.	Sq.m	245.39				
26.00	Plain White Putty Works (on external surfaces): Providing and laying 2mm thick Waterproof Plain White Putty on external surfaces with proper finishing , work all complete as per specification and approval of site Engineer.	Sq.m	18.87				

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27.00	<b>Painting Works (Internal Wall &amp; Ceiling):</b> Painting work with two coat plastic emulsion paint on inner wall and ceiling surfaces along with one coat of primer with approved colour as per design and proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	245.39				
28.00	<b>Painting Works (External Walls):</b> Supplying and Painting two coat weather proof paint (Apex or equivalent) with one coat primer on outer wall surfaces with approved colour and proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	51.25				
29.00	<b>Enamel Paint:</b> Two coats of Enamel paint over one coat of primer on wooden and mild steel works including railing with approved colour and proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	433.54				
30.00	<b>Chapra Polish Works:</b> Supplying and applying three coat of Chapra Polish on the Wooden Railing with proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	57.96				
31.00	<b>Drip Edge:</b> Providing Drip Edge around the edge of all pojected slabs above ground floor as per drawing, specification and instructions of approved engineer all complete.	R.m	22.80				
32.00	<b>Plain Cement Screeding works:</b> Supplying and applying 50 mm thick Plain cement screeding work in 1:2:4 with cement, sand and crushed aggregate including mixing, laying, compacting and wetting in perfect line and level also broom finish in ramps as per drawings, specifications and approval of site Engineer all complete.	Sq.m	211.80				
33.00	<b>Punning Works:</b> Provide and laying 3mm cement punning cement sand (1:1) including cleaning, watering, curing the laid surface all complete as per specification, instruction & approval of Site Engineer.	Sq.m	172.79				
34.00	<b>Porcelain Glazed Floor Tile:</b> Supplying and fixing of approved quality porcelain glazed tile on rooms, toilet etc (Somany, Kazaria or equivalent) on floor surfaces of size as per drawing and specification in 1:4 cement sand mortar with proper finish in perfect line and level works as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	91.19				
35.00	<b>Porcelain Glazed Wall Tile:</b> Supplying and fixing of approved quality porcelain glazed wall tile (Somany, Kazaria or equivalent) of size as per drawing and specification on wall surfaces with boader in 1:4 cement sand mortar in perfect line and level work as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	74.02				
36.00	<b>Tile skirting works:</b> Supplying and fixing of approved quality porcelain glazed tile (Somany, Kazaria or equivalent) skirting of height 100mm in 1:6 cement sand mortar in perfect line and level work as per design, drawings, specifications and instructions of the site engineer all complete works.	R.m	77.36				
37.00	<b>Metal Works for Truss:</b> Supplying materials, fabricating and erecting Ms pipes of different section for truss in perfect line including welding, cutting, fixing with including primer and two coats of enamel paint as per design, drawings, specifications and instructions of the approved engineer all complete.	Kg	1,645.25				

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38.00	<b>Polymer modified Waterproofing Works:</b> Providing and Applying polymer modified arcylic base two component water proofing on toilet floor or wherever required etc, flexible waterproofing coating in two layers applied in horizontal and vertical strokes, when each coat is in tacky condition, Aquafin-2K/M plus or equivalent having cTack-bridging to ASTM C836: > 2.0 mm Elongation, to ASTM D 412-16: ca. 192 o/o and Water tightness when installed: 2.5 bar meeting the ( ASTM D 412-98 a) over the prepared RCC slab and on the vertical surfaces . After 3 days ponding the area with water for 3 days to test water tightness etc. as per drawing, specification and instruction of site engineer all complete.	Sq.m	26.57				
39.00	<b>CGI Sheet Roofing Works:</b> Supplying and fitting of 0.5mm thick colour C.G.I sheet roofing including fixing in proper shape & size with all necessary rail , screws, bolts & nuts washer ,J & L hocks etc. as per drawing, specification & instructions of site engineer all complete.	Sq.m	163.09				
40.00	<b>CGI Gutter Works:</b> Supplying and fixing G.I. Gutter upto 450 mm wide from 0.5mm thick with 150 mm base width approved coloured sheet including washer and all necessary items all complete as per design, drawing, specification and instruction of Engineer.	R.m	39.30				
41.00	<b>Ridge Cover:</b> Providing all materials for fabricating ridge cover of 0.5 mm coloured GI sheet and laying it all complete as per drawing,specification and instructions.	R.m	19.65				
42.00	<b>12mm ply board base:</b> Suppling and fixing of 12mm thick waterproof plyboard as a base for roofing including all necessary accessories all complete as per drawing, specification and instructions.	Sq.m	163.09				
43.00	<b>Gypsum False Ceiling:</b> Supplying and laying of 12.5mm thick plain gypsum board false ceiling in GI frames works including connecting clips, control joint, paper & fibre tape, dry wall screws, M-6 nuts & bolts, metal-to-metal scews, edge beads, angle beads, jointing compound, rawl plugs wherever required as per design, drawing, specification and instruction of the approved engineer all complete.	Sq.m	77.39				
44.00	<b>Stainless Steel Railing Works on Ramp:</b> Making, fitting and fixing of stainless steel pipe railing with 4 rows horizontal posts of 25mm diameter and 50 mm diameter vertical post @ 1m. c/c including welding , cutting, finishing all complete as per design,specification and approval of site Engineer.	Rm	6.00				
45.00	<b>Interlocking Blocks:</b> Providing and laying 60 mm heavy duty interlocking blocks over 50 mm thick crushed stone dust as per design specifications and drawings all complete.	Sq.m	18.11				
46.00	<b>100mm Diameter HDPE pipe:</b> Supplying and laying 100 mm diameter high density poethylene pipe (1.703 Avg. wt. kg/m) staggers at 1m c/c in retaining wall and wherever required all complete as per specification, instruction and drawing and approval of engineer.	R.m	109.28				

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47.00	Geotextile Membrane: Supplying and laying Geotextile Membrane around the pipe of weep hole of Retaining wall as per design, drawings, specifications and instructions of the site engineer all complete.	Sq.m	6.35				
48.00	Provide, erect and maintain Project Site Notice Board minimum size (2mx2m) of Flex print with necessary accessories up to the completion of the project as per specifications and instructions of the engineer all complete.	Nos	1.00				
49.00	Kerb Stone : Supplying, and laying of 300 x 300x 150mm in 1:1:2 ratio in perfect line and level including packing of joints as per design, drawings, specifications, instructions & approval of the site engineer all complete works.	R.m	15.52				
C.	<b>SANITARY WORKS</b>						
50.00	Providing and fixing in position of all fixtures with all necessary work and 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. (Hindustan, Parryware, Classica, cera or equivalent.) <b>Water Closet set:</b> providing and fixing all complete as per specification and instruction of engineer all complete. White European glazed porcelain clay One Piece Floor mounted Commode, Siphonic double flush with 's'or 'p' trap and slow falling seat cover (American Standard, Parryware, Hindware, RAK, Duravit or equivalent all complete set	set	2.00				
51.00	<b>Water Closet set ( Pan type):</b> providing and fixing all complete as per specification and instruction of engineer all complete. Supplying and Fixing White glazed earthenware Indian pattern Orissa Pan with low level Pvc flushing cistern ,trap,pipe connector with complete accessories including bracket, flushing pipe,pipe connector etc. all complete set. (Somany, Tita, RAK or equivalent.)	set	4.00				
52.00	<b>Wash Basin Set:</b> providing and fixing all complete as per specification and instruction of engineer all complete. White glazed earthenware wash basin size of 400 x 500 mm, sized undercounter type with C.P. brass basin tap, longlife 28 mm ceramic cartridge and brass nuts complete as required, StarLight chrome finish, Mousseur smooth body. and pvc bottle trap all complete. Wash Basin- American Standard, Hindware, Parryware, RAK, Duravit ; Basin tap -American standard. Hindware. Parryware. Grohe.	set	4.00				

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53.00	Fittings, Valves and Bathroom accessories: providing and fixing all complete as per specification and instruction of engineer all complete. 15 mm CP commode spray with 1.2mt. Long flexiable pipe,two way angle valve (American standard, Parryware,Grohe, Schell or equivalent)	set	2.00				
54.00	Fittings, Valves and Bathroom accessories: providing and fixing all complete as per specification and instruction of engineer all complete. CP long body bib cock	set	4.00				
55.00	Supply and fixing of 24" Steel Towel Rail all complete as per specification and instruction of engineer all complete.	set	1.00				
56.00	Supply and fixing of 5 mm thick looking mirror with CP mirror screws and clips all complete as per specification and instruction of engineer all complete.	set	4.00				
57.00	Supply and fixing of CP Soap Dish heavy all complete as per specification and instruction of engineer all complete.	No.	4.00				
58.00	Supply and fixing of 20x600mm CP Towel Rail Heavy all complete as per specification and instruction of engineer all complete.	No.	1.00				
59.00	Supply and fixing of 20 mm CP Grab bar -600mm bend type all complete as per specification and instruction of engineer all complete.	Set	1.00				
60.00	Supply and fixing of 20 mm CP Grab bar - Rear all complete as per specification and instruction of engineer all complete.	Set	1.00				
61.00	Supply and fixing of PVC 110 multi port floor trap. using adhesive glue ,pvc solvent,metal clamp,nails etc. all complete as per specification and instruction of engineer all complete.	no	4.00				
62.00	Supply and fixing of 110mm cowl vent using adhesive glue ,pvc solvent,metal clamp,nails etc. all complete as per specification and instruction of engineer all complete.	no	3.00				
63.00	<b>Water storage tank with MS stand:</b> Supplying and fixing all complete. Over head storage 2000 litre water tank or equivalent brand exta heavy Plastic cyllindrical vertical water storage tank complete with inter-connection, overflow, washout and vents as per specifications and site eqineer instructions.	set	1.00				
64.00	Supplying and fixing of 1.5 m high MS stand suitable to accommodate 2000 litres PVC roof tank as per specifications and site eqineer instructions.	set	1.00				
65.00	Supplying and fixing CPVC:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK :-15 mm dia CPVC Pipe SDR 11 CTS, 28.1 kg/cm2	rm	16.00				

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66.00	Supplying and fixing CPVC:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK:-20 mm dia CPVC Pipe SDR 11 CTS, 28.1 kg/cm <sup>2</sup>	rm	30.00				
67.00	Supplying and fixing CPVC:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK:- 50 mm dia CPVC Pipe SDR 11 CTS, 28.1 kg/cm <sup>2</sup>	rm	42.00				
68.00	Valves: (Flow guard (Marvel) or ISI standard) .NSF MARK: 20 mm dia CPVC Ball Valve, CTS Socket all complete.	no	6.00				
69.00	Soil Waste a Drainage pipe line (from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smoking test rectifying the leakage if any all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent) OD :- 50mm (4 kg/cm <sup>2</sup> ) uPVC/PVC	rm	15.00				
70.00	Soil Waste a Drainage pipe line (from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smoking test rectifying the leakage if any all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent) OD :- OD 75mm (4 kg/cm <sup>2</sup> ) uPVC/PVC	rm	16.00				
71.00	Soil Waste a Drainage pipe line (from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smoking test rectifying the leakage if any all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent) OD :- OD 110mm ( 4 kg/cm <sup>2</sup> ) uPVC/PVC	rm	38.60				
72.00	Soil Waste a Drainage pipe line (from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smoking test rectifying the leakage if any all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent) OD :- OD 160mm ( 4 kg/cm <sup>2</sup> ) uPVC/PVC	rm	40.00				

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73.00	Vertical stack -Soil Waste a Drainage pipe line (from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smoking test rectifying the leakage if any all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent):- OD 110mm ( 4 kg/cm <sup>2</sup> ) uPVC/PVC	rm	16.00				
D.	Electrical Works						
74.00	Supply, installation, testing & commissioning of 36/40 Watt LED Tube Box type with reflector.	Nos.	10.00				
75.00	Supply, installation, testing and commissioning of 12 Watt surface panel down light & the luminaire shall be with system efficacy $\geq 100$ lm / W	Nos.	15.00				
76.00	Supply, installation, testing and commissioning of 42 Inch Ceiling Fan.	Nos.	4.00				
77.00	Supply, installation, testing and commissioning of 6/16A Flat universal pin type switch socket with white unbreakable faceplate with GI metal box concealed.	Nos.	15.00				
78.00	Supply, installation, testing and commissioning of 1 gang 1 way 10 A switch with pate as per the specification and instruction all complete.	Nos.	4.00				
79.00	Supply, installation, testing and commissioning of 2 gang 1 way 10 A switch with pate as per the specification and instruction all complete.	Nos.	2.00				
80.00	Supply, installation, testing and commissioning of 3 gang 1 way 10 A switch with pate as per the specification and instruction all complete.	Nos.	6.00				
81.00	Supply, installation, testing and commissioning of 6 gang 1 way 10 A switch with pate as per the specification and instruction all complete.	Nos.	1.00				
82.00	Wiring installation for Lights and fan points on Mains / Essential supplies with mains and submains running on walls and ceiling with 2 nos. 2.5 sq.mm and 1 nos. of 1.5 stranded flexible PVC insulated copper wire respectively in neatly and symmetrically well placed <b>20 mm PVC rigid conduit pipe</b> , with all required fixing accessories including minor chasing / chasing of wall and making good of the same including removing existing circuits, if necessary, to allow for light points laid out and controlled as per new space allocations. <b>Shop Drawings for routes to be followed must be submitted for Approval during execution stage.</b>	Point	29.00				
83.00	Wiring installation for Power points on Mains / Essential supplies with mains and submains running on walls and ceiling with 2 nos. 4 sq.mm and 1 nos. of 2.5 stranded flexible PVC insulated copper wire respectively in neatly and symmetrically well placed <b>25 mm PVC rigid conduit pipe</b> , with all required fixing accessories including minor chasing / chasing of wall and making good of the same including removing existing circuits, if necessary, to allow for Power points laid out and controlled as per new space allocations. <b>Shop Drawings for routes to be followed must be submitted for Approval during execution stage.</b>	Point	15.00				

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84.00	Supply, Laying, testing and commissioning of 16 sq.mm. 4 core unarmoured cable in HDPE conduit from NEA LT-Tapping Point to MDB.	Rm	100.00				
85.00	Supply, Laying, testing and commissioning of 2 core 4 sq.mm. with 1 core 2.5 sq.mm. unarmoured copper cable from MDB to DB-T and DB-TB.	Rm	60.00				
86.00	Supply, Laying, testing and commissioning of 2.5 sq.mm. 3 core copper armoured cable in HDPE conduit from DB to street lights.	Rm	100.00				
87.00	Supply, Laying, testing and commissioning of 16 sq.mm. 1 core copper flexible cable in HDPE conduit from earthpit to MDB.	Rm	60.00				
88.00	Supply and Installation of Main Distribution Board 6 Way TPN Double Door comprising of following 1 no of 32 A TP MCB, 10 kA as Incomer 1 no of 16A DP MCB, 10KA as outgoing 16 nos of 6/16 A SP MCB, 10 kA as outgoing	Set	1.00				
89.00	Typical DB-TB & DB-TG distribution board 6 way SPN double door comprising of following 1 nos of 16A DP MCB, 10KA As Incoming 4 nos of 6/16 A SP MCB, 10KA as outgoing	set	1.00				
90.00	Supply, installation, testing & commissioning of 25 Watts post-top / Garden light made of die cast base, spun aluminium top and PMMA reflector with IP-65 degree protection.	Nos.	4.00				
91.00	Supply, installation, testing & commissioning of 4 Meter Top-post pole made of cast iron with connection terminal box required civil foundation works, MCB all complete.	Nos.	4.00				
92.00	Supply, installation, testing & commissioning of Earthing system with 3 meter copper bonded earth electrode with necessary accessories such as universal clamp, earth enhancing compound and necessary civil works all complete.	Nos.	1.00				
Sub-Total Amount =							NRs
VAT (13%) =							NRs
Grand Total Amount including VAT=							NRs
Grand Total Amount including VAT (in words) :							

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**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
<b>A</b>	<b>PROVISIONAL SUM</b>						
1.0	Provide Contractor's All Risk (CAR) policy insurance for the loss of damage to works, plant, material, equipment, property and personnel injury or death as per specification and instructions of approved engineer all complete.	P.S	1.00	114,000.00	One Lakh Fourteen Thousand Rupees only/-	114,000.00	
2.0	Provision of laboratory tests outside the Site Laboratory ( <b>Independent Laboratory</b> ) as per the specification and approval of the engineers up to the completion of the project.	P.S	1.00	200,000.00	Two Lakhs Rupees only/-	200,000.00	
<b>B</b>	<b>CIVIL WORKS</b>						
3.0	<b>Site Clearance Works:</b> Clearing the required area of the Site of all the top soil, vegetation, roots and other unuseful materials including leveling, removing bushes, trees; stacking the useful items in specified space and disposing other items as per drawing, specifications & instruction of site engineer all complete.	Sq.m	367.40				
4.0	<b>Hydraulic Excavation:</b> Excavation in any kind of soils at all levels for all types of structures, including shoring, strutting, pumping and bailing out water, de-watering if any so as to keep foundations in dry condition at any stage of work, drain the water away from the site through sub drain and connecting into main drain, stacking the excavated earth at proper place near site for refill using mechanical means as per drawing, specifications & instruction of site engineer all complete.	Cu.m	228.88				
5.0	<b>Manual Excavation:</b> Earthwork in excavation in all types of soil manually including timbering and shoring as per design, drawing, specification & instruction of site Engineer all complete.	Cu.m	213.65				
6.0	<b>Earth Filling Works:</b> Filling of excavated earthwork in layers of 150mm with sprinkling water and compaction in foundation, flower bed, steps etc as per drawing, specification & instruction of site Engineer all complete.	Cu.m	90.46				
7.0	Supplying and filling broken pieces of CSEB blocks in layers with proper compaction in foundation ramming and levelling as per design, drawing, specification and instruction of site engineer all complete.	Cu.m	57.26				
8.0	<b>Disposal works</b> of excessive excavated soil outside from site area including labour and transportation all complete as per specification & instruction of site Engineer all complete.	Cu.m	153.59				
9.0	<b>Stone Soling Works:</b> Supplying and Laying of Stone Soling in foundation with approved quality of stone with sand filling in joints, ramming and levelling as per design, drawing, specification and instruction of site engineer all complete.	Cu.m	36.96				
10.0	<b>Plain Cement Concrete (PCC)</b> with cement, sand and crushed aggregate in 1:2:4 ratio including mixing, laying, curing and finishing all complete as per drawing, specification and instruction of site Engineer.	Cu.m	18.32				
11.0	<b>RCC Works (M25):</b> Structural Concrete in any form, size, shape and level for all Reinforced Cement Concrete (R.C.C) works with cement, sand and crushed aggregate in Nominal mix 1:1:2 ratio (M25) including mixing, laying, compacting, finishing and curing all complete as per drawing, specification and instruction of site Engineer.	Cu.m	123.73				

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**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
12.0	<b>RCC Works (M20):</b> Structural Concrete in any form,size, shape and level for all Reinforced Cement Concrete (R.C.C) works with cement, sand and crushed aggregate in Nominal mix 1:1.5:3 ratio (M20) including mixing, laying, compacting, finishing and curing all complete as per drawing, specification and instruction of site Engineer.	Cu.m	43.99				
13.0	<b>Reinforcement Works:</b> Providing, straightening, cleaning, cutting, fabricating, bending and placing TMT(Fe 500) for stirrups, ties and main reinforcement bars and binding the bars with 18 gauge annealed wire for tying them at each junction and also placing vertical rebars in CSEB masonry work as per design, drawings and details for all types of R.C.C elements including all waste and cut pieces, provision for spacers, chairs, providing and placing cement mortar (1:1) cover blocks to keep the bars in the intended position at all levels as per drawing,specification, instruction and approval of engineer all complete.	Kg.	26,993.54				
14.0	<b>Formworks:</b> Centering and shuttering with approved 19mm waterproofing plywood for all R.C.C.works of any shape size and at any level with necessary propping scaffolding, staging supporting, cutting holes for utilization works and removal of formwork and lead upto 30 m etc as per drawing, specification, instruction and approval of engineer all complete. <b>(For Column)</b>	Sq.m	235.20				
15.0	<b>Formworks:</b> Centering and shuttering with approved 12mm waterproofing plywood for all R.C.C.works of any shape size and at any level with necessary propping scaffolding, staging supporting, cutting holes for utilization works and removal of formwork and lead upto 30 m etc as per drawing, specification, instruction and approval of engineer all complete. <b>(For Beam)</b>	Sq.m	514.47				
16.0	<b>Formworks:</b> Centering and shuttering with approved 12mm waterproofing plywood for all R.C.C.works of any shape size and at any level with necessary propping scaffolding, staging supporting, cutting holes for utilization works and removal of formwork and lead upto 30 m etc as per drawing, specification, instruction and approval of engineer all complete. <b>(For Slab)</b>	Sq.m	546.21				
17.0	<b>Stone masonry work</b> in (1:6) cement sand mortar with approved quality stone upto ground floor in perfect line and level including wetting the stone, packing the joints and curing, with necessary scaffolding work, including supplying of all materials, labour, lead and lift work as per design, drawings, specifications and instructions of the site engineer all complete.	Cu.m	47.95				
18.0	<b>Pointing Works on stone masonry:</b> Supplying and laying pointing works with (1:1) cement sand mortar on stone masonry wall surfaces of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	sqm	37.62				

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**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
19.0	<b>CSEB Masonry Works Upto Ground Floor (230mm thick) :</b> CSEB masonry work in (1:4) cement sand mortar upto ground floor with approved quality in perfect line and level including wetting the CSEB ,packing the joints and curing , with necessary scaffolding work ,including supplying of all materials , labour, lead and lift, work all complete as per design, drawing, specification and approval of site Engineer.	Cu.m	114.39				
20.0	<b>CSEB Masonry Works above Ground Floor (230mm thick) :</b> CSEB masonry work in (1:4) cement sand mortar above ground floor with approved quality in perfect line and level including wetting the CSEB ,packing the joints and curing , with necessary scaffolding work ,including supplying of all materials , labour, lead and lift, work all complete as per design, drawing, specification and approval of site Engineer.	Cu.m	71.63				
21.0	<b>CSEB Masonry Works Upto Ground Floor (300mm thick) :</b> CSEB masonry work in (1:4) cement sand mortar upto ground floor with approved quality in perfect line and level including wetting the CSEB ,packing the joints and curing , with necessary scaffolding work ,including supplying of all materials , labour, lead and lift, work all complete as per design, drawing, specification and approval of site Engineer.	Cu.m	36.51				
22.0	<b>Salwood Chaukhat frame works</b> for doors & windows as approved by site incharge such that the timber used must be first class kiln seasoned and preservative treated sal wood, to shape and profile as shown in the drawings with mitred joints including providing and fixing necessary MS hold fasts ( 20 X 6 mm) 300 mm long, 3 nos at each side, and concrete (1:2:4) block grouting for fixing the holdfast and anchor fasteners/ coach screws Frames must be erected in absolute plumb and level as per design, drawings, specifications and instructions of the site engineer all complete.	cum	2.89				
23.0	<b>Agrakh Panel Door:</b> Supplying & fitting 38mm thick panel Door of Nepali Agrakh including hardware (hinges, Mortice lock, H-Handle, Door Closer, tower bolt etc with all necessary accessories) as per drawings, specification & instruction of site Engineer all complete.	sqm	20.16				
24.0	<b>Ready made Hard CoreTeak wood Doors:</b> Supplying and fitting Ready made Hard CoreTeak wood Doors,special (Seasoned and Poisoned treated ,one side teak and other side water proof ply fitting) with all neccessary hardware all complete as per specification, instructions and drawing and approval of engineer.	sqm	14.49				
25.0	<b>Window Shutter:</b> Supplying & fitting 38mmx75mm frame of Nepali Agrakh fitted with 5mm thick glass including hardware (Hinges, Towerbolt, Handle, etc with all necessary accessories) as per drawings, specification & instruction of site Engineer all complete.	sqm	58.80				
26.0	<b>Glass Works in wooden frame:</b> Supplying and fitting 5mm thick clear glass on the ventilation, window & door shutter including listi, glues, screws as per drawings, specification and instruction of the site engineer all complete.	sqm	3.84				

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**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
27.0	<b>Wooden Tundal Works</b> : Salwood works used for Tundal as approved by site incharge such that the timber used must be first class kiln seasoned and preservative treated sal wood, to shape and profile as shown in the drawings with mitred joints including providing and fixing necessary accessories as per design, drawings, specifications and instructions of the site engineer all complete.	cum	0.53				
28.0	<b>Plaster Works (on ceiling)</b> : Supplying and laying 12.5 mm thick cement plastering work with (1:3) cement sand mortar on Ceiling surfaces and beam of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	Sq.m	87.34				
29.0	<b>Plaster Works (on walls)</b> : Supplying and laying 12.5 mm thick cement plastering work in (1:4) cement mortar on walls of good finish including cleaning and wetting the surface and curing the work all complete as per specification and approval of site Engineer	Sq.m	1,012.70				
30.0	<b>Plain White Putty Works (on internal Walls &amp; ceiling)</b> : Providing and laying 2mm thick Plain White Putty on internal walls & ceiling surfaces with proper finishing , work all complete as per specification and approval of site Engineer.	Sq.m	35.58				
31.0	<b>Plain White Putty Works (on external surfaces)</b> : Providing and laying 2mm thick Waterproof Plain White Putty on external surfaces with proper finishing , work all complete as per specification and approval of site Engineer.	Sq.m	234.03				
32.0	<b>Painting Works (Internal Wall &amp; Ceiling)</b> : Painting work with two coat plastic emulsion paint on inner wall and ceiling surfaces along with one coat of primer with approved colour as per design and proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	679.71				
33.0	<b>Painting Works (External Walls)</b> : Supplying and Painting two coat weather proof paint (Apex or equivalent) with one coat primer on outer wall surfaces with approved colour and proper finishing , work all complete as per specification and approval of site Engineer.	Sq.m	110.76				
34.0	<b>Enamel Paint</b> : Two coats of Enamel paint over one coat of primer on wooden and mild steel works including railing with approved colour and proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	903.30				
35.0	<b>Chapra Polish Works</b> : Supplying and applying three coat of Chapra Polish on the Wooden Railing with proper finishing, work all complete as per specification and approval of site Engineer.	Sq.m	76.98				
36.0	<b>Drip Edge</b> : Providing Drip Edge around the edge of all pojected slabs above ground floor as per drawing, specification and instructions of approved engineer all complete.	R.m	87.80				
37.0	<b>Plain Cement Screeding works</b> : Supplying and applying 50 mm thick Plain cement screeding work in 1:2:4 with cement, sand and crushed aggregate including mixing, laying, compacting and wetting in perfect line and level also broom finish in ramps as per drawings, specifications and approval of site Engineer all complete.	Sq.m	531.13				

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**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
38.0	<b>Punning Works:</b> Provide and laying 3mm cement punning cement sand (1:1) including cleaning, watering, curing the laid surface all complete as per specification, instruction & approval of Site Engineer.	Sq.m	719.24				
39.0	<b>Cement Sand Skirting Works:</b> Supplying and laying 16 mm thick C/S skirting with plaster of 1:4 cement sand mortar and 3mm thick punning in perfect line and level as per drawing, specification, instruction & approval of Site Engineer all complete.	R.m	188.80				
40.0	<b>Porcelain Glazed Floor Tile:</b> Supplying and fixing of approved quality porcelain glazed tile on rooms, toilet etc (Somany, Kazaria or equivalent) on floor surfaces of size as per drawing and specification in 1:4 cement sand mortar with proper finish in perfect line and level works as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	38.64				
41.0	<b>Porcelain Glazed Wall Tile:</b> Supplying and fixing of approved quality porcelain glazed wall tile (Somany, Kazaria or equivalent) of size as per drawing and specification on wall surfaces with boader in 1:4 cement sand mortar in perfect line and level work as per design, drawings, specifications and instructions of the site engineer all complete works.	Sq.m	102.96				
42.0	<b>Metal Works for Truss:</b> Supplying materials, fabricating and erecting Ms pipes of different section for truss in perfect line including welding, cutting, fixing with including primer and two coats of enamel paint as per design, drawings, specifications and instructions of the approved engineer all complete.	Kg	2,867.40				
43.0	<b>Polymer modified Waterproofing Works:</b> Providing and Applying polymer modified arcylic base two component water proofing on toilet floor or wherever required etc, flexible waterproofing coating in two layers applied in horizontal and vertical strokes, when each coat is in tacky condition, Aquafin-2K/M plus or equivalent having cTack-bridging to ASTM C836: > 2.0 mm Elongation, to ASTM D 412-16: ca. 192 o/o and Water tightness when installed: 2.5 bar meeting the ( ASTM D 412-98 a) over the prepared RCC slab and on the vertical surfaces . After 3 days ponding the area with water for 3 days to test water tightness etc. as per drawing, specification and instruction of site engineer all complete.	Sq.m	121.93				
44.0	<b>CGI Sheet Roofing Works:</b> Supplying and fitting of 0.5mm thick colour C.G.I sheet roofing including fixing in proper shape & size with all necessary rail , screws, bolts & nuts washer ,J & L hocks etc. as per drawing, specification & instructions of site engineer all complete.	Sq.m	359.80				
45.0	<b>CGI Gutter Works:</b> Supplying and fixing G.I. Gutter upto 450 mm wide from 0.5mm thick with 150 mm base width approved coloured sheet including washer and all necessary items all complete as per design, drawing, specification and instruction of Engineer.	R.m	104.53				
46.0	<b>Ridge Cover:</b> Providing all materials for fabricating ridge cover of 0.5 mm coloured GI sheet and laying it all complete as per drawing, specification and instructions.	R.m	32.00				
47.0	<b>12mm ply board base:</b> Suppling and fixing of 12mm thick waterproof plyboard as a base for roofing including all necessary accessories all complete as per drawing, specification and instructions.	Sq.m	359.80				

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**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
48.0	<b>Stainless Steel Railing Works on Staircase/Terrace/Balcony:</b> Making, fitting and fixing of stainless steel pipe railing with 50 mm diameter handrail and main vertical post of 50 mm diameter and intermediate vertical post of 25mm diameter at spacing as per drawing including welding , cutting, finishing all complete as per design specification and approval of site Engineer.	Rm	43.50				
49.0	<b>Stainless Steel Railing Works on Ramp:</b> Making, fitting and fixing of stainless steel pipe railing with 4 rows horizontal posts of 25mm diameter and 50 mm diameter vertical post @ 1m. c/c including welding , cutting, finishing all complete as per design,specification and approval of site Engineer.	Rm	7.30				
50.0	<b>Expansion Joint for Ceiling:</b> Supply and fixing expansion joint for ceiling area with Alumunium Plate of 3mm thick with feasible movement capacity, joint width upto 4", material 5052 grade alumunium, anodised finish including necessary accessories as per drawings, specifications, instruction & approval of Site Engineer all complete. (Spring Thunder or VSIL or Bituflex or equivalent)	Rm	6.00				
51.0	<b>Expansion Joint for Floor:</b> Supply and fixing expansion joint for horizontal floor expansion joint for slab (3mm thick galvanized steel) with feasible movement capacity, joint width upto 4", with water barrier including necessary accessories as per drawings, specifications, instruction & approval of Site Engineer all complete. (Spring Thunder or VSIL or Bituflex or equivalent)	Rm	6.00				
52.0	<b>Interlocking Blocks:</b> Providing and laying 60 mm heavy duty interlocking blocks over 50 mm thick crushed stone dust as per design specifications and drawings all complete.	Sq.m	45.73				
53.0	<b>100mm Diameter HDPE pipe:</b> Supplying and laying 100 mm diameter high density polethene pipe (1.703 Avg. wt. kg/m) staggeres at 1m c/c in retaining wall and wherever required all complete as per specification, instruction and drawing and approval of engineer.	R.m	24.70				
54.0	<b>Geotextile Membrane:</b> Supplying and laying Geotextile Membrane around the pipe of weep hole of Retaining wall as per design, drawings, specifications and instructions of the site engineer all complete.	Sq.m	5.13				
55.0	Provide, erect and maintain Project Site Notice Board minimum size (2mx2m) of Flex print with necessary accessories up to the completion of the project as per specifications and instructions of the engineer all complete.	Nos	1.00				
56.0	<b>Kerb Stone :</b> Supplying, and laying of 300 x 300x 150mm in 1:1:2 ratio in perfect line and level including packing of joints as per design, drawings, specifications, instructions & approval of the site engineer all complete works.	R.m	29.41				
C.	<b>SANITARY WORKS</b>						

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**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
57.0	Providing and fixing in position of all fixtures with all necessary work and 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. (Hindustan, Parryware, Classica, cera or equivalent.) <b>Water Closet set:</b> providing and fixing all complete as per specification and instruction of engineer all complete. White European glazed porcelain clay One Piece Floor mounted Commode, Siphonic double flush with 's' or 'p' trap and slow falling seat cover (American Standard, Parryware, Hindware, RAK, Duravit or equivalent all complete set.	set	2.00				
58.0	<b>Water Closet set ( Pan type):</b> providing and fixing all complete as per specification and instruction of engineer all complete. Supplying and Fixing White glazed earthenware Indian pattern Orissa Pan with low level Pvc flushing cistern ,trap,pipe connector with complete accessories including bracket, flushing pipe,pipe connector etc. all complete set. (Somanv. Tita, RAK or equivalent.)	set	6.00				
59.0	<b>Wash Basin Set:</b> providing and fixing all complete as per specification and instruction of engineer all complete. White glazed earthenware wash basin size of 400 x 500 mm, sized undercounter type with C.P. brass basin tap, longlife 28 mm ceramic cartridge and brass nuts complete as required, StarLight chrome finish, Mousseur smooth body. and pvc bottle trap all complete. Wash Basin- American Standard, Hindware, Parryware, RAK, Duravit ; Basin tap -American standard, Hindware, Parryware, Grohe.	set	2.00				
60.0	Fittings, Valves and Bathroom accessories: providing and fixing all complete as per specification and instruction of engineer all complete. 15 mm CP commode spray with 1.2mt. Long flexible pipe, two way angle valve (American standard, Parryware, Grohe, Schell or equivalent)	set	2.00				
61.0	Fittings, Valves and Bathroom accessories: providing and fixing all complete as per specification and instruction of engineer all complete. CP long body bib cock	set	14.00				
62.0	Supply and fixing of 5 mm thick looking mirror with CP mirror screws and clips all complete as per specification and instruction of engineer all complete.	set	8.00				
63.0	Supply and fixing of CP Soap Dish heavy all complete as per specification and instruction of engineer all complete.	No.	8.00				

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**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
64.0	Supply and fixing of 20 mm CP Grab bar -600mm bend type all complete as per specification and instruction of engineer all complete.	Set	2.00				
65.0	Supply and fixing of 20 mm CP Grab bar - Rear all complete as per specification and instruction of engineer all complete.	Set	2.00				
66.0	Supply and fixing of PVC 110 multi port floor trap. using adhesive glue ,pvc solvent,metal clamp,nails etc. all complete as per specification and instruction of engineer all complete.	no	6.00				
67.0	Supply and fixing of 110mm cowl vent using adhesive glue ,pvc solvent,metal clamp,nails etc. all complete as per specification and instruction of engineer all complete.	no	4.00				
68.0	<b>Water storage tank with MS stand:</b> Supplying and fixing all complete. Over head storage 2000 litre water tank or equivalent brand exta heavy Plastic cyllindrical vertical water storage tank complete with inter-connection, overflow, washout and vents as per specifications and site egineer instructions.	set	1.00				
69.0	Supplying and fixing of 1.5 m high MS stand suitable to accommodate 2000 litres PVC roof tank as per specifications and site engineer instructions.	set	1.00				
70.0	Supplying and fixing CPVC:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK:- 15 mm dia CPVC Pipe SDR 11 CTS, 28.1 kg/cm2	rm	19.20				
71.0	Supplying and fixing CPVC:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK:- 20 mm dia CPVC Pipe SDR 11 CTS, 28.1 kg/cm2	rm	45.39				
72.0	Supplying and fixing CPVC:- Chlorinated Poly Vinyl Chloride pipe(Cold). or equivalent with CPVC fittings/specials (Tees, elbows, Unions etc) clamps(m.s plate with nut and bolt with hexagonal screws for clamp in ceiling,wall), nails, including jointing materials,installation of pipes and specials including making holes on walls or floor and repairing the same to its original finish, all complete set as per specification and instruction. (Flow guard (Marvel) or ISI standard) .NSF MARK:- 50 mm dia CPVC Pipe SDR 11 CTS, 28.1 kg/cm2	rm	30.00				

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**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
73.0	Valves: (Flow guard (Marvel) or ISI standard) .NSF MARK: 20 mm dia CPVC Ball Valve, CTS Socket all complete.	no	6.00				
74.0	Valves: (Flow guard (Marvel) or ISI standard) .NSF MARK: 50 mm dia CPVC Ball Valve, CTS Socket all complete.	no	2.00				
75.0	Soil Waste a Drainage pipe line (from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smoking test rectifying the leakage if any all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent):-OD 75mm (4 kg/cm <sup>2</sup> ) uPVC/PVC	rm	16.00				
76.0	Soil Waste a Drainage pipe line (from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smoking test rectifying the leakage if any all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent):- OD 110mm ( 4 kg/cm <sup>2</sup> ) uPVC/PVC	rm	38.60				
77.0	Soil Waste a Drainage pipe line (from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smoking test rectifying the leakage if any all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent):- OD 160mm ( 4 kg/cm <sup>2</sup> ) uPVC/PVC	rm	40.00				
78.0	Vertical stack -Soil Waste a Drainage pipe line (from toilets to the duct then to the nearest manhole): Supplying and fixing including all necessary bend, tee, y branch, socket etc as per requirement with NS testing the pipe line by the smoking test rectifying the leakage if any all complete as per the specification and instruction all complete. (Marvel, Mangalam or equivalent):- OD 110mm ( 4 kg/cm <sup>2</sup> ) uPVC/PVC	rm	16.00				
D.	<b>Electrical Works</b>						
79.0	Supply, installation, testing & commissioning of 36/40 Watt LED Tube Box type with reflector.	Nos.	48.00				
80.0	Supply, installation, testing and commissioning of 12 Watt surface panel down light & the luminaire shall be with system efficacy $\geq 100$ lm / W	Nos.	30.00				
81.0	Supply, installation, testing and commissioning of 42 Inch Ceiling Fan.	Nos.	16.00				
82.0	Supply, installation, testing and commissioning of 6/16A Flat universal pin type switch socket with white unbreakable faceplate with GI metal box concealed.	Nos.	18.00				
83.0	Supply, installation, testing and commissioning of 6 gang 1 way 10 A switch with pate as per the specification and instruction all complete.	Nos.	14.00				

Submitted By:

Checked By:



Approved By:



**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
84.0	Wiring installation for Lights and fan points on Mains / Essential supplies with mains and submains running on walls and ceiling with 2 nos. 2.5 sq.mm and 1 nos. of 1.5 stranded flexible PVC insulated copper wire respectively in neatly and symmetrically well placed <b>20 mm PVC rigid conduit pipe</b> , with all required fixing accessories including minor chasing / chasing of wall and making good of the same including removing existing circuits, if necessary, to allow for light points laid out and controlled as per new space allocations. <b>Shop Drawings for routes to be followed must be submitted for Approval during execution stage.</b>	Point	94.00				
85.0	Wiring installation for Power points on Mains / Essential supplies with mains and submains running on walls and ceiling with 2 nos. 4 sq.mm and 1 nos. of 2.5 stranded flexible PVC insulated copper wire respectively in neatly and symmetrically well placed <b>25 mm PVC rigid conduit pipe</b> , with all required fixing accessories including minor chasing / chasing of wall and making good of the same including removing existing circuits, if necessary, to allow for Power points laid out and controlled as per new space allocations. <b>Shop Drawings for routes to be followed must be submitted for Approval during execution stage.</b>	Point	18.00				
86.0	Supply, Laying, testing and commissioning of 16 sq.mm. 4 core unarmoured cable in HDPE conduit from NEA LT Tapping Point to MDB.	Rm	100.00				
87.0	Supply, Laying, testing and commissioning of 6 sq.mm. 4 core with 4 sq.mm. 1 core copper unarmoured cable in HDPE conduit from MDB to DB-1	Rm	250.00				
88.0	Supply, Laying, testing and commissioning of 2 core 4 sq.mm. with 1 core 2.5 sq.mm. unarmoured copper cable from MDB to DB-T and DB-TB.	Rm	150.00				
89.0	Supply, Laying, testing and commissioning of 2.5 sq.mm. 3 core copper armoured cable in HDPE conduit from DB to street lights.	Rm	150.00				
90.0	Supply, Laying, testing and commissioning of 16 sq.mm. 1 core copper flexible cable in HDPE conduit from earthpit to MDB.	Rm	60.00				
91.0	Supply and Installation of Main Distribution Board 6 Way TPN Double Door comprising of following 1 no of 32 A TP MCB, 10 kA as Incomer 3 no of 16 A TP MCB, 10 kA as Outgoing 2 no of 16 A DP MCB, 10 kA as Outgoing 6 nos of 6/16 A SP MCB, 10 kA as outgoing	Set	1.00				
92.0	DB-1 distribution board 4 way TPN Double Door comprising of following 1 no of 16 A TP MCB, 10 kA as Incoming 12 nos of 6/16 A SP MCB, 10 kA as outgoing	Set	3.00				

Submitted By:

Checked By:


 HELVETAS  
NEPAL

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**Bill of Quantities(BOQ)**

Srijana Basic School, Aathabiskot -14, Pipal Chour

Reconstruction of Public Infrastructure, School Building, Aathabiskot 14, Pipal Chour Rukum West

**BoQ:4**

Location : Aathabiskot Municipality W.N. 14, Pipalchour Rukum West

S.N.	Description of Works	Unit	Quantity	Rate		Amount	Remarks
				In Figure	In Words		
93.0	Typical DB-TB & DB-TG distribution board 6 way SPN double door comprising of following 1 nos of 16A DP MCB, 10KA As Incoming 4 nos of 6/16 A SP MCB, 10KA as outgoing	set	2.00				
94.0	Supply, installation, testing & commissioning of 25 Watts post-top / Garden light made of die cast base, spun aluminium top and PMMA reflector with IP-65 degree protection.	Nos.	6.00				
95.0	Supply, installation, testing & commissioning of 4 Meter Top-post pole made of cast iron with connection terminal box required civil foundation works, MCB all complete.	Nos.	6.00				
96.0	Supply, installation, testing & commissioning of Earthing system with 3 meter copper bonded earth electrode with necessary accessories such as universal clamp, earth enhancing compound and necessary civil works all complete.	Nos.	1.00				
Sub-Total Amount =							NRs
VAT (13%) =							NRs
Grand Total Amount including VAT=							NRs
Grand Total Amount including VAT (in words) :							


**HELVETAS**  
NEPAL



Submitted By:

Checked By:

Approved By: