

Nepal Electricity Authority
Electricity Distribution Department
Maharajganj Distribution Center
Basundhara, Kathmandu

Bill of Quantity

JOB:- CONSTRUCTION OF BUDHANILKANTH OFFICE BUILDING

F/Y: 2073/074

Site: CHAPALI , KATHMANDU.

S.No.	Description	Quantity	Unit	Rate excluding VAT		Total Amount	Remarks
				In Figure	In word		
A. CIVIL WORKS							
1	Clearing, grubbing and removing top soil including bushes, small trees, levelling of undulated ground, sorting etc., ready for layout all complete as per drawings, specifications and instructions of the Engineer.	1.00	Job				
2	Excavation in any kind of soils at all levels by using mechanical means, 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, backfilling with proper compaction at all sides of foundation and filling inside and outside the buildings as required with mechanical compaction and disposal of the surplus earth out of the Site, as per specification, drawings and instruction of Site Engineer, all complete.	455.13	cum				
3	Earth Back Filling in foundation trenches & Floor in 15,15 c.m. layers with water sprinkling & manual compaction as per specification and instruction all complete.	307.89	cum				
4	Supplying and applying of Dry Brick flat soling with approved line and level all complete.	310.40	sqm				
5	Plain cement Concrete (PCC) in 1:3:6 ratio for foundations, flooring and walls with approved quality of cement, sand and crushed stone aggregate including mixing, laying, curing etc all complete in approval of site engineer.	28.88	cum				

6	Providing and laying Plain cement Concrete (PCC) for RCC works (1:1.5:3) for column, foundation & beam with approved quality of cement, sand and crushed stone aggregate including mixing, laying, curing etc all complete in approval of site engineer	195.24	cum				
7	Supplying and placing of Tor steel reinforcement bar of Fe 415 grade including straightening, cleaning, cutting, binding & fixing in position with annealed tying binding wire as per drawing, design & instruction all complete.	29.95	MT				
8	Form Works: Providing, fabricating, erecting and fixing in position, centering and shuttering of 19 mm thick waterproof plywood, true to the line and level, including steel props propping, staging, applying emulsion oil as approved, required bracing, chamfering corners (of exposed edges) of as mentioned making leak proof joints etc. complete. Also include removing and dismantling the below mentioned assembly after specified or as approved period from the day of casting of concrete include leads as per drawing, specification and instructions.	1112.52	sqm				
9	Providing and laying Chimney made best quality (first class) 9" thick brick masonry (1:4) including the cost of single or multi-stage scaffolding, soaking bricks, curing for at least 7 days, raking joints, provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer	152.84	cum				
10	Providing and laying Chimney made best quality (first class) 4" thick brick masonry including the cost of single or multi-stage scaffolding, soaking bricks, curing for at least 7 days, raking joints, provision for recesses, openings, toothing etc., all complete as per drawing, specifications and instructions of the Engineer	107.08	sqm				
11	Providing and applying 12.5 mm thick external plaster 1:4 (1 cement : 2 coarse sand : 2 fine sand) to external / internal walls complete in line and levelling and finishing in regular and even surface including all necessary single or multi-stage scaffolding, wetting, curing, protection etc all complete as per drawing, specification and instructions of the Engineer.	1071.09	sqm				

12	Providing and applying 12.5 mm thick external plaster 1:4 (1 cement : 2 coarse sand : 2 fine sand) to ceiling complete in line and levelling and finishing in regular and even surface including all necessary single or multi-stage scaffolding, wetting, curing, protection etc all complete as per drawing, specification and instructions of the Engineer.	317.34	sqm				
13	Supplying and applying two coats or more asian paint white putty or equivalent to get wave free surface by using sand paper as per requirement on ceiling and wall with line and level as per instruction of site engineer all complete	1030.62	sqm				
14	Providing and applying Painting lead free hygiene coats emulsion paint of approved shade over the internal plaster surface with 2 coats of the paints over primer including of scraping, washing the surface with water,surface preparation, scaffolding etc. all complete.	1030.62	sqm				
15	Providing and applying Exterior paint over the external plastered surface with 2 coats of the paints over primer including for scraping, washing the surface with water, surface preparation, scaffolding etc. all complete.	472.87	sqm				
16	38mm thick (1:2:4) P.C.C. for flooring with approved quality of O.P. cement & sand and crushed stone aggregate including mixing, laying, punning, rubbing in hard surface curing etc all complete.	570.01	sqm				
17	Applying of 3mm thick cement punning flooring over 38mm thick screeding in dead level in cement sand mortar (1:4) ratio with approved colour all complete.	595.09	sqm				
18	Supplying and laying of glazed or non glazed tiles Kazzaria,somany or equ.of 600mmX600mm or large size on floor over 38mm thick screeding in dead level with 4mm open joints and including filling joints with epoxy of approved colour with different patterns of multicolour and different shapes. in cement sand mortar (1:4) ratio with approved colour all complete.	13.44	sqm				
19	Supplying and laying of glazed or non glazed tiles Kazzaria,somany or equ.of 600mmX600mm or large size on walls over 38mm thick screeding in dead level with 4mm open joints and including filling joints with epoxy of approved colour with different patterns of multicolour and different shapes. in cement sand mortar (1:4) ratio with approved colour all complete.	35.62	sqm				

20	Supplying & fitting Ready made Teak wood doors, special(Seasoned and poisoned treated, one side teak and other side water proof ply fitting) with all necessary hardware all complete.	6.75	sqm				
21	Supplying and fitting Aluminium sliding windowwithout ventilator from section (101 x45x1.5)mm & 5mm glass.	69.75	sqm				
22	Supplying and fitting Aluminium casement door section of (101 x45 x1.3)mm sash 40x45x1.3mm & 5mm glass.	26.46	sqm				
B. ELECTRICAL WORK							
1	Supply, delivery, installation, testing and commissioning of main control panel, DB, SDB as per specification and plan;						
a	Main Panel	1.00	set				
	60 A TP MCCB no 1						
	40 A TP MCB no 3						
	busbar of 25mm x 3mm size set 4						
	20 x 3 size earth bus bar no 1						
	indicator lamps and fuse no 3						
b	DB Grd FI / SDB 1st FI	2.00	set				
	40 A, TP MCB , 10 kA no 1						
	20 A, DP MCB , 10 kA no 3						
	16 A, SP MCB , 10 kA no 9						
	6 A, SP MCB , 10 kA no 9						
	busbar of 25mm x 3mm size set 4						
	20 x 3 size earth bus bar no 1						
	indicator lamps and fuse no 1						
c	DB Top FI	1.00	set				
	40 A, TP MCB , 10 kA no 1						
	20 A, DP MCB , 10 kA no 3						
	16 A, SP MCB , 10 kA no 9						
	6 A, SP MCB , 10 kA no 9						
	busbar of 25mm x 3mm size set 4						
	20 x 3 size earth bus bar no 1						
	indicator lamps and fuse no 1						

2	Supply and installation of tray/ cable riser made of 3/4" MS angle with strips spacers at 8" distance, down rod all complete with epoxy (double quote) paint with following width sizes;					
a	6 " size	RO	rmt			
b	12 " size	12.00	rmt			
3	Supply, Installation, testing and commissioning of Mains cable connection from various DB's to SDB's SDB's to switch with following Cu conductor through cable trays/ ladders as per drawing and specification including cable shoe at both ends (cost of cable riser/cable tray not included).					
a	4 c 16 sq mm cu unarm cable though cable tray/ riser	64.00	rm			
b	4 c 10 sq mm cu unarm cable though cable tray/ riser	24.00	rm			
c	4 c 6 sq mm cu unarm cable though cable tray /riser	14.00	rm			
d	1 C of 4 sq mm cu unarm	88.00	rm			
e	1 C of 2.5 sq mm cu unarm cable	14.00	rm			
f	2 x 4 sq mm multistranded FR cable + 1 x 1.5 sq mm multistranded FR cable in in 20 mm FR Grade PVC conduit.	108.00	rm			
g	2 x 2.5 sq mm multistranded FR cable + 1 x 1.5 sq mm multistranded FR cable in in 20 mm FR Grade PVC conduit.	108.00	rm			
	Light point Wiring					
4	Supply and installation of Light Point & Fan Point Wiring from Switch Box to various points with 2 X 2.5 sq mm + 1 x 1.5 FRLS copper Multistrain Cu wire through FR Grade 20 mm dia PVC Conduit, concealed via switch as per drawing and specification including the cost of junction box and switch .	52.00	pts			
5	Power point Wiring					
	Supply and installation of Point Wiring from Junction Box to various points with 2 X4 sq mm + 1 x 1.5 FRLS copper Multistrain Cu wire through FR Grade 20 mm dia PVC Conduit, concealed via switch as per drawing and specification including the cost of junction box and switch .	29.00	pts			
6	Supply & installation of light fixtures with required accessories and fittings, complete set as specification and instruction. (Reference: Legero, Pharox, Phillips)					
a	8" dia ceiling dome with 1 x9 W LED	16.00	nos			
b	Recessed Downlighter with 3 W LED Focus Lights	7.00	nos			
c	Normal Box Type 1x40 W FTL, 40 W	9.00	nos			
d	Normal Box Type 2x40 W FTL, 80 W	9.00	nos			
e	Wall Light 1 x 9W PL	5.00	nos			
f	2 x 6 W LED Lamp Candle light in Bathroom Mirror Light	6.00	nos			
g	Bulk head light with 1 x 9 W LED Lamp	RO	nos			
h	Gate Post Light 1 x 14 W LED Lamp	RO	nos			
i	Street Light with 2 x 70 W LED with lamp post	RO	nos			
j	Street Light with 1 x 70 W LED with lamp post	RO	nos			
7	Supply & Installation of switch sockets (MAKE : wilco/Clipsal - vivace./Myrious / NW)					
a	1 gang 1 way	1.00	nos			

b	2 gang 1 way	8.00	nos				
c	3 gang 1 way	3.00	nos				
d	4 gang 1 way	1.00	nos				
e	6 gang 1 way	5.00	nos				
f	1 gang 2 way	5.00	nos				
8	Supply & Delivery of Sockets (MAKE : wilco/Clipsal -vivace./Myrious)						
a	5 A, 2 pin sockets	0.00	nos				
b	15 A, 3/5 pin Round pin power socket with control switch and indicator light .	9.00	nos.				
c	13 A, 3 pin Flat pin power socket with control switch and indicator light .	20.00	nos.				
9	FAN						
a	18" dia Heavy duty metal body exhaust fan with complete canopy work	0.00	set				
b	8/10" dia Heavy duty metal body exhaust fan with complete canopy work	5.00	set				
c	48" dia ceilling fan with complete installation materials	11.00	set				
10	LT EARTHING						
	Supply, Installation, Testing & commissioning of earthing stations using 600*600*3.15 mm CU plate as earth electrodes buried in layer of coke & salt at 2 meter depth below ground level. The scope also includes excavation 0.9*0.9*2 mtr. In all type of soil and back filling including preparing brick masonry chamber 200 mm thick and 450 mm deep with 1:4 cement mortar with 1:3 plaster from inside the chamber 20 mm thick fixing of 300 mm* 300mm CI cover (cover shall be of medium duty with weight not less than 10 Kg), funnel etc. as per IS 3043/1966 revised up to date.	3.00	Nos				
11	Supply & laying of hot dipped GI/pure copper earthing strip to connect to the DBS,Poles and equipments in outdoor yard and also in indoor portion of substation.						
a	25*3 mm CU strip	10.00	Mtr				
12	Lightning Protection System:						
13	Supply & installation of Early Streamer Emission Lightning Conductor Air Terminal (ESELCT) to protect the Builidngs and other structures from direct Lighting Strikes which inlcudes :-						
a)	1 m Long Arrester made of pure Cupper with spikes on Top and base plate complete	1.00	set				
b)	ESE air terminal, Make :- Delta /Indelec / ABB./Bakiral	RO	Nos.				
c)	2 Meter GI mast with base plate & baseplate foundation bolts.	RO	Nos.				
d)	Guying Kit sets.	RO	Set				
14	Supply of 70 Sq.mmPVC insulated stranded flexible copper cable through 2"dia 4 mm wall thickness FRP tube with saddles and fxing.	RO	RM				
15	TELEPHONE WORK						
a	RJ11, faceplate with jack	14.00	nos				
b	Cabling job	14.00	pts				

16	LAN networking point						
a	Supply, Laying, Installation Testing & Commissioning of Cat 6 cable	144.00	rm				
b	Cat 6 face plate with jack	12.00	no				
c	Conduit laying	144.00	rm				
17	CCTV WORK						
a	Indoor IR D/N CS Mount Camera.	4.00	Nos.				
	1/3" SONY CCD COLOR IR CS MOUNT CAMERA, 540 TVL OR HIGHER, 30 MTRS WITH 34 IR LEDS or HIGHER , SUN SHIELD, 0 LUX , DUST PROOF, AWB, AGC, BLC, 6 / 12MM LENS.						
b	16 CHANNEL VIDEO RECORDER,	1.00	Nos.				
	400 fps Dis. & Recording H.264 compression 200 ips (100 fps) Rec, Embedded Linux, MPEG-4+ H.264 Compression , withLan/TCPIP/Network, Pentaplex Operation, IR Remote control (upto 99 DVRs), Schedule, Motion, Sensor Recording, 4x Digital Zoom, 8 Alarm In/ 4 Alarm out, Alarm Notification						
c	Supply Installation Testing & Commissioning of below mentioned cables in Trays/Conduit/ Ladder						
i	1.5 X 2 Core Armoured Cable For Power Supply	30.00	Mtr.				
ii	RG-11 Armoured Cable for Video Data trasmission	30.00	Mtr.				
	C.Sanitary, Plumbing & Water Supply 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: Hindware/ Parryware/ Somany/ Duravit / Americal standard						
	CP Fixtures: Grohe/ Jaquar						
	SWR Pipes: Nepatop / Marvel / Supreme PVC						
	Cold Water Supply Pipe and fittings: Marvel/ Mangalam/ Hilltake CPVC						
	Gun Metal Gate Valve: LEADER/SANT						
	Ball Valve: Marvel/ Mangalam/ Hilltake						
1.	SANITARY INSTALLATION						
a	White glazed earthenware close coupled European Water Closet set with standard bakelite seat cover, bracket, CP angular cock, PVC connector pipe complete with testing and ready for operation	6.00	Set				
b	White glazed earthenware under-counter Hand wash basin with 15 mm CP/PVC connector with both ends couplings, 15mm CP angular cock -1 no, 15mm CP Single lever Pillar Cock, 32mm PVC bottle trap, waste coupling with testing and ready for operation	6.00	Set				

c	White glazed earthenware Wall-hung Large Flat back Urinal complete with CP push cock, flushing pipe and spreader set, testing and ready for operation	0.00	Set			
d	White glazed earthenware Division Plate for Urinal	0.00	Set			
e	CP Toilet Paper Holder heavy	6.00	No.			
f	CP Soap Dish heavy	6.00	No.			
g	15mm CP Commode Spray with plastic head	6.00	No.			
h	20x600mm CP Towel Rail Heavy	6.00	No.			
i	5 mm thick looking mirror of Modi or approved make with CP mirror screws and clips. 3'x2'	6.00	No.			
j	PVC Multi-floor trap with cover	6.00	No.			
k	110 mm PVC cowl vent	3.00	No.			
l	110 mm PVC Rain Inlet with cover	4.00	No.			
2.	WATER SUPPLY INSTALLATION					
a	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 feet, fittings etc not payable seperately.					
	- 40 mm	52.00	Rm			
	- 32 mm	30.00	Rm			
	- 25 mm	46.00	Rm			
	- 20 mm	98.00	Rm			
b	CPVC Ball Valve					
	- 40 mm	2.00	No.			
	- 32 mm	6.00	No.			
	- 25 mm	2.00	No.			
	- 20 mm	16.00	No.			
c	2000 litres capacity Nepatop or Rooftop or equivalent brand Plastic cyllindrical vertical water storage tank complete with inter-connection, overflow, washout and vents	1.00	No.			
d	2 HP Water Pump	2.00	Set			
3.	SEWER, VENT, RAIN AND WASTE WATER INSTALLATION					

a	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 or hung to ceilings 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 feet, fittings etc not payable seperately.						
	- 110 mm ED 6 kg/sqcm	54.00	Rm				
	- 75 mm ED 6 kg/sqcm	89.00	Rm				
	- 50 mm ED 6 kg/sqcm	25.00	Rm				
					Sub Total		
					Vat@13%		
	Total				Total		

Total amount in words

Name of Contractor :

Address :

Date :

Signature of Contractor :

E-mail:

Fax:

Phone No.