

Abstract for Bill of Quantities (BoQ)

Name of work : Renovation and remodeling of ROEA Building (Three Storeyed) at Old Service Centre

Project Location : Changzamtog, Thimphu

Sl. No.	SubWork	Amount (Nu.)	Remarks
1	Civil Works		BoQ pages 1 to 7
2	Electrical Works		BoQ pages 1 to 6
	Grand Total		
	Rebate (if any)		
	Grand Total after Rebate		

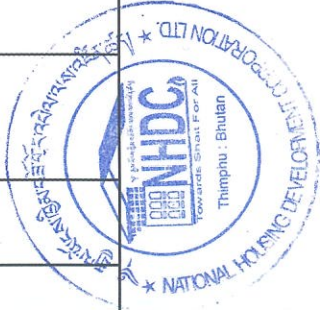
Grant Total in words : Nu. _____



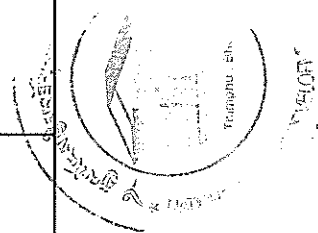
Abstract of Cost (Revision 2)

Name of Work: DCSI- Re- Development of Parking at Old Service Center, Changzamtok.
Subwork : Civil

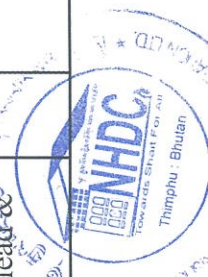
Sl. No	Description of Work Items	Unit	Qty.	Rate in Figures (Nu.)	Rate in Words (Nu.)	Amount in Figures (Nu.)	Remarks
1	Demolishing stone rubble masonry including stacking useful materials & disposal of rubbish within 50m lead - In cement mortar	cu.m	18.05				
2	Earth work in excavation over areas using Excavator, exceeding 300mm in depth, 1.5m in width as well as 10 sq.m in area on plan, including dressing, levelling and disposal of excavated earth, lead up to 50m and lift up to 1.5m-All types of soil	cu.m	754.59				
3	Preparation of sub grade with proper camber by excavating earth to depth equal to pavement thickness, consolidation with roller, disposal of surplus earth up to 50m- All kinds of soil	cu.m	240.53				
4	Providing and laying Granular sub-base course (GSB) to required degree of compaction with proper formation of cross fall using motor grader for laying and compacted to required density as per material gradation and aggregate quality specified -150mm	cu.m	360.80				



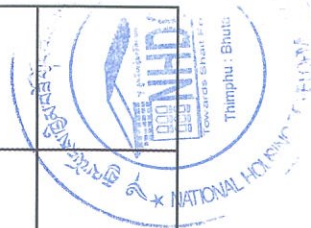
5	Providing and laying wet mix macadam graded aggregate base course to required degree of compaction with proper formation of cross fall by using well graded crushed aggregates premixed with OMC using suitable mixer, motor grader as per material gradation and a aggregates quality specified - 100mm	cu.m	240.53			
6	Providing and Laying Asphalt/Bituminous Concrete to required degree of compaction based on the job mixture design approved by the supervising engineer using asphalt plant, paver, steel roller, tyre roller etc. as per material gradation and aggregate quality specified-30 mm	sq.m	391.44			
7	Scarifying metalled (water bound) road surface disposal of rubbish up to 50m and consolidation of the aggregate received from scarifying complete	sq.m	391.44			
8	Providing seal coat of premixed sand with bitumen emulsion-Using 5.3 kg of emulsion and 0.045 cu.m coarse sand per 10 sq.m of road surface complete	sq.m	391.44			
9	Providing & laying sand bedding, including watering, ramming, dressing complete as required	cu.m	28.52			



10	Providing and laying factory made Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand. complete all as per direction of Engineer-in-Charge.-Interlocking Paver Block (I Paver) 65mm Thk. Coloured	sq.m	950.98			
11	Providing and laying factory made kerb stone (Edging) in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (Length & Depth/height of finished kerb edging shall be measured for payment)- 100mm thick	sq.m	47.07			
12	Excavation in foundation trenches or drains not exceeding 1.5m in width or area 10 sq.m on plan, including dressing & ramming, disposal of surplus soil within 50m lead & 1.5m lift - All types of Soil	cum	17.60			



13	Providing and laying Hand packed stone filling or soling with stones 150mm	cu.m	20.23			
14	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering - All work upto plinth level.-1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size)	cu.m	1.65			
15	Providing and laying Chequered precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles, including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand).-Chequered tiles, Paver tiles. 25mm Thk. Colour	sq.m	21.96			
16	Constructing second class brick masonry open surface drain in cement mortar 1:4 including earth work in excavation 100 mm thick concrete bed 1:5:10, 40mm aggregate and 25mm thick cement concrete 1:2:4, 12 mm aggregate for filling haunches including 12mm cement plastering 1:4 with a floating coat of neat cement and disposal of surplus earth etc. complete-250mm wide x 300mm depth	m	154.13			
17	Providing & laying Second-Class Half-brick Masonry (125 mm) in superstructure below floor 2 level- In cement mortar 1:4	sq.m	52.30			



18	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth-In cement mortar 1:4 Extra for random rubble masonry with hard stone in superstructure above plinth, below & including floor 2 level	cu.m	14.67				
19	Providing & laying cement plaster, finished with floating coat of neat cement-20mm plaster in C.M 1:3	sq.m	169.64				
20	Providing & laying H.D.P.E Pipes, 6 PN, including H.D.P.E fittings (excluding trenching, refilling & thrust block)-250mm	m	154.13				
21	Providing & fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C work including cutting, bending, binding and placing in position complete	kg	292.22				
22	Providing & fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork- Foundation and plinth etc.	sq.m	46.24				
23	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement - all work upto plinth level- 1:2:4 (1 cement : 2 sand : 4 graded crushed rock 20 mm nominal size) cu.m	cu.m	3.85				



24	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. priming coat of red lead paint - In Tees, angles, flats and channels as per the sample/instruction	kg	566.4				
25	Providing and applying finishing coats- Synthetic enamel, for steel & wood work, two coats on new work	sq.m	27.36				
26	Excavation /dismantling, stacking, loading/unloading, disposal including leveling of rubbish within 10km lead- 10 cu.m truck	Trips	60				
27	Incorporation of Occupational Health and Safety measures at construction sites as per the attached requirements list. The standards and specifications for the Insurance, OHS materials and (or) equipment shall be in compliance with the Labour and Employment Act - 2007, Regulation on Occupational Health, Safety and Welfare - 2012, and other relevant national documents. All OHS items will remain as the property of the bidder upon completion of the project.	L/Su m	1				



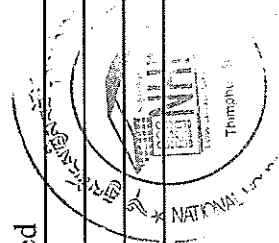
28	Providing Transportation/ temporary living accommodation which includes bed room, kitchen, and toilet cum bathroom including proper water supply and electricity as per the drawing and temporary living accommodation standards. The accommodation facilities must be dismantled and cleaned upon the completion of project. All reusable materials of the accommodation facilities will remain as the property of the bidder upon completion of the project.	L/Su m	1			
				Total		
					Rebate if any Nu. / %	
					Grand Total after Rebate	

Grand Total in words :

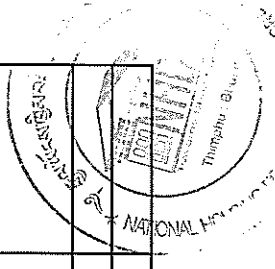


Abstract of Cost
Name Of Work:-Providing and fixing of compound lighting at old service centre ,DCSI, MoEA, Thimphu

Sub Work :- Electrical Works							
Sl. No.	Description of the items	Qty.	Unit	Rate in Figures (Nu.)	Amount in Words (Nu.)	Amount in Figures (Nu.)	Remarks
1	Provide & Draw Multistrand 1.1KV grade PVC insulated copper conductor cable in existing conduit 1 2x1.5 sq.mm	54	m				
	Supplying of 2- Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables 2 16 sq.mm	294.00	m				
	Laying of one number PVC insulated and sheathed power cable copper/ aluminium, armoured/un-armoured 1.1KV single core to four core direct in the ground including excavation, sand cushioning, protective covering and refilling the trenches etc. as required						
3	Above 6sq.mm to 25sq.mm	314.00	m				
	Supplying and fixing of HDPE pipe on recessed including all accessories such as screws, bends, elbows, Tees, corners, etc. complete as required 4 20mm	200.00	m				



	Supplying of compound light steel tubular pole 50/60mm outer dia having a base plate 250x250x5.4mm, entry hole of 20mm dia 1.1m from bottom and strude bolt as earth terminal complete as required	9.0C	each					
5	3m, 4.5mm thick							
	Erection of compound light steel tubular pole 3 m length 50/60mm dia. with 20mm dia MS sleeve as inlet of power cable in cement concrete 1:3:6, 40mm stone aggregate foundation with cement concrete base 0.47mx0.47mx75mm thick 1:4:8 including excavation, centering & shuttering, and refilling, providing props for pole etc. complete as required							
6	At dead end	2.0C	each					
7	At middle	7.0C	each					
	Supplying & fixing of junction box fabricated with 14SWG MS sheet, removal cover plate with gasket for dust and vermine proof, 2 earthing terminals with nut, bolts and spring washer, 2 entry holes 16mm dia at bottom, 32mm dia for cable entry at back, including 4 way terminal block & HRC fuse unit with fuse of 6A with locking arrangement and finish coat painting complete with all accessories as required as per standard drawing							
8	MS junction box out door duty	9.0C	each					



	Providing and installation of street/compound light pole earthing including connections, testing etc. complete as required including excavation and refilling - With G.I earth spike 1.8m including G.I wire(8SWG)	9.00	each						
9									
	Providing & laying concrete block brick in foundation and plinth in cement mortar 1:4, finishing with 12 mm cement plaster in cement mortar 1:5 for post top lantern light pole and mini pillar feeder/ control box as per the details drawing provided and instruction of site engineer to complete the job as required.								
10	In cement mortar 1:4	2.00	cu.m						
	Aluminium paint(silver), two coats on -								
11	Compound light pole	7.20	sq.m						
	Supply & Installation, testing & commissioning of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a din bar etc. as required								
12	6A	10.00	each						



	Supply & Installation, testing & commissioning of miniature circuit breaker (MCB) double pole, 230 volt A.C complete with all accessories suitable to fix on a din bar etc. as required								
13	25A	2.00	each						
14	63A	1.00	each						
	Supply & Installation, testing & commissioning of Digital electronic timer switch double pole, 50Hz, sensitivity 30mA, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required								
15	7days/24hrs	1.00	each						
	Incorporation of occupational Health and Safety measures at construction sites as per the attached requirements list. The standards and specifications for the Insurance, OHS materials and (or) equipment shall be in compliance with the labour and Employment Act-2007, Regulation on Occupational Health, Safety and Welfare-2012, and other relevant national documents. All OHS items will remain as the property of the bidder upon completion of the project.	1.00	Lum psum						
16									
	Supplying of 2- Core 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables-25sq.mm	20	m						
17									



