

AZISTA BHUTAN HEALTHCARE LTD

COMPARATIVE STATEMENT FOR CIVIL WORKS - ADMIN BLOCK (PHASE-I)

BILL OF QUANTITIES

S No	DESCRIPTION	UNIT	QTY	QUOTED PRICE	TOTAL	FINAL PRICE	TOTAL
A	FRAMED STRUCTURE						
1	EARTH WORK EXCAVATION						
1.1	EXCAVATION for the demarcated area and for the foundations of columns footings, walls, steps, ramps, etc. as per the drawings and instructions up to a depth of 2M in all types of soil and murum by mechanical means such as bulldozer, JCB, porcelain etc. including recording levels, shoring, strutting, refilling & compacting around walls, and footings,. The rate to include dewatering / bailing of water spreading the material in layers not exceeding 450 MM inside the premises wherever directed including compacting upto 98% proctor density with vibro roller.						
	a) -Do- for depth of excavation exceeding 2 M upto 3.0 M.	Cum	209.50				
	c) -Do- for extra over above for excavation more than depth 3 M for each 0.5 M additional depth.	Cum					
	d) -Do- for soft rock and boulders up to a depth of 1.50 M.	Cum					
	e) -Do- for depth of excavation exceeding 1.50 M upto 3.0 M.	Cum					
1.2	EXCAVATION IN HARD ROCK for required size and to required depth by chiseling or any other mechanical means including dewatering sub soil and rainwater by pump or bailing out water if needed, rate to include breaking pieces to max 300 MM Dia and spreading the material in layers not exceeding 450 MM inside the premises wherever directed including compaction, also carting away unwanted stuff outside the premises etc. complete.	Cum					
1.3	BACK FILLING in foundation and plinth with approved selected murum available at site in layers each not exceeding 300 MM thick including watering, consolidating each layer with 8/10 ton vibro roller / mechanical compactor upto proctor density of 95%, filling, leveling etc. complete. (Consolidated material shall be measured for payment.)						
	a) With approved quality earth brought from outside	Cum	143.16				
	b) With excavated earth available within the site	Cum					

1.4	PRE CONSTRUCTION ANTI-TERMITE TREATMENT at the bottom of foundation pits and walls on either side up to a height of 300mm from bottom of the excavation made for column plinth beam, wall, trenches etc. by applying the emulsion @ 5 (five) litres per square meter of the surface area before starting construction work (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.						
	a) With aqueous emulsion (Measurement will be plinth area only)	Sqm	159.07				
1.5	Providing and laying dry rubble stone hard core SOLING OF 230 MM THK to required levels and lines with best quality rubble of granite or other approved variety of stone hand set well packed, including filling the interstices with stone chips of large size possible, supplying and finishing/blinding the surface with murrum including rumming & compacting and rolling with 1.5 T hand roller including watering to run down gravel inserters at ramps etc..., complete as per specifications and as directed	Sqm	36.64				
1.6	Providing and constructing RANDOM RUBBLE STONE MASONRY Walls (second sort) of various thicknesses in CM 1:8 proportion using hard granite stones with bond stones equal to the thickness of the wall spaced at least 1.80 m apart in alternate courses, filling and packing of voids with 40 mm HBG metal, including cost of all materials, labour, raking out joints, cleaning the visible surface of stone, scaffolding and all incidental and operational charge, curing, etc., complete.	Cum	47.11				
1.7	Providing and laying 25MM THK DAMP PROOF COURSE with cement concrete in prop 1:2:4 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.(Cement supplied by Client).	Sqm					
2.0	PLAN CEMENT CONCRETE						

2.1	PLAIN CEMENT CONCRETE works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).(Cement supplied by Client).						
	in sub structure up to plinth level						
	I) In prop. 1:4:8	Cum	17.29				
	II) In prop. 1:3:6	Cum	15.91				
3.0	REINFORCED CEMENT CONCRETE						
	Site Mix Concrete						
3.1	Providing and laying REINFORCED CEMENT CONCRETE of the following grade using river sand, 20mm and down size coarse aggregates, including vibrating, scaffolding wherever necessary, curing and hacking as directed, etc., complete. Rate to exclude cost of reinforcement and shuttering works. (Cement supplied by Client).						
	a) Footings (M25 Grade)	Cum	36.02				
	b) Pedestals & Columns Up to Plinth Level (M25 Grade)	Cum	8.96				
	i) Ground Floor	Cum	8.71				
	c) Plinth Beams (M25 Grade)	Cum	16.92				
	d) Below Plinth Internal Flooring (M20 Grade)	Cum					
	e) Lintels & Chajjas (75mm thk)						
	i) Ground Floor	Sqm	55.00				
	Ready Mix Concrete						
3.2	Providing and laying RMC in position conforming to specified grade (IS 456-2000) at the levels given below using river sand with 20mm and down size. aggregate of granite basalt or trap, as per specification excluding the cost of steel reinforcement and form work at all levels and places wherever needed/ specified as per drawing. etc., complete, as per drawing and specifications.						
	b) Roof Slab & Beams & Stair Case(M25)						
	i) Ground Floor	Cum	40.22				

4.0	SHUTTERING WORKS						
4.1	Providing FORM WORK of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work .						
	a) Footings	Sqm	64.56				
	b) Plinth Beams	Sqm	78.23				
	c) Columns						
	i) Ground Floor	Sqm	157.61				
	d) Roof Beams,Slab & Staircase						
	i) Ground Floor	Sqm	311.21				
	e) Lintels & Chajja						
	i) Ground Floor	Sqm	30.00				
5.0	REINFORCEMENT STEEL WORK						
5.1	Providing and fabricating at all levels and heights, REINFORCEMENT STEEL for RCC works with high yield strength ribbed cold twisted tor steel (HSD) bar of various diameters and grade of steel as specified below conforming to IS specification including cutting, bending, hoisting, fabricating and placing in position according to drawings and binding the reinforcement with galvanised annealed binding wire of double fold of 18 gauge and providing PVC cover blocks for placing the reinforcement steel in position and for maintaining the cover specified and or according to relevant IS code.						
	REINFORCEMENT STEEL FOR ALL	Mt	11.25				
B	SUPER STRUCTURE						

6.1	Providing and constructing 230 MM BLOCK MASONRY / AAC BLOCKS wall of approved quality and of crushing strength not less than 75kg/sq cm in CM 1:8 prop in staggered bond including cost of all materials, labour charges, scaffolding, raking out joints, curing, all operational & incidental charges, etc., at any level at any floor complete.(Cement supplied by Client).						
	i) Ground Floor	Cum	50.30				
6.1a	Providing & Constructing 200 mm thick light weight AAC block work (Aerocon/siporex/equalent) 600mmx200mmx200mm in super structure laid in CM (1:6) mix joints finished flush raked to 10mm depth including jointing with concrete where required and as per specifications and drawings including cost and conveyance and all material cost of RCC bands(Steel will be measured Separately) and bed blocks labour charges other incidental charges etc. Complete as per standard drawings, specification and as directed by Project manager(the Basic prices of Aerocon blocks as mentioned in the Special Conditions of the Tender Document)-(Cement supplied by Client).						
	i) Ground Floor	Cum	130.52				
6.2	Providing and constructing BRICK MASONRY 115MM thick as per specifications, bedding, jointing and pointing in cement mortar 1:5 and striking and raking out joints with all lead, lift and depth, with 50mm thick cement concrete in 1:2:4 grade (cement : fine aggregate : coarse aggregate) laid, stiffener reinforcement steel 2 numbers of 6mm diameter at every 4th layer, including scaffolding, finishing, cutting, curing and such other works that are required to make it complete at all floors and heights as per specification and as directed by the Engineer.(Cement supplied by Client).						
	i) Ground Floor	Sqm	140.16				
7.0	PLASTERING WORK						

7.1	INTERNAL PLASTER MINIMUM 20 MM thick in 1:5 proportion and Neena or equivalent fibers including to the internal surface of walls, columns, beams, etc., finished smooth with neeru including providing and fixing G.I. chicken mesh 300 MM wide on the joints of masonry and RCC beams or columns before plastering, bands, corners, edges, etc. scaffolding, curing and touching up after scaffolding, etc. complete (Cement supplied by Client).						
	i) Ground Floor	Sqm	598.00				
	Providing & fixing in position non slip(anti skid) ceramic tiles of Kajaria or equivalent approved brand 300 X 300 MM in size of approved shade and design including 1:3 proportions cement mortar with white cement pointing to joints as per Architect's instructions, cleaning acid washing, P.O.P protection if required etc. complete.(Cement supplied by Client).	Sqm	311.00				
	Providing & applying of approved make & shade of Tractor Emulsion for Internal ceilings, walls with Two coats premium emulsion paint and one coat primary and two coat putty as per instruction of Engineer in charge. including cost and conveyance of all materials to site, labour charges, such as preparation of wall surface, scaffolding etc., complete for all floors at all heights.	Sqm	598.00				
	Providing and fixing Hilux Calcium Silicate false ceiling using powder coated aluminium L and T sections and 6mm thick, 250mm wide multi champhered Panels, suspension will be copper butterfly clip system with 3 to 4mm GI rods.	Sqm	318.00				
J	Grand Total			-			-
AZISTA SCOPE							
Cement		Bag	1820				
Steel		MT	11.25				
Total Cost							
Slab Area (Sft) 16.57 X 9.6 X 2 No's= 3423.23							
Construction Cost per SFT							