

BILL OF QUANTITIES FOR RAW WATER RESERVOIR

S.NO	DESCRIPTION
A	EARTH WORK
A1	Earthwork in all types of soils, viz, sand, clay, soft and hard murram, WBM but but other than rock (soft and hard) requiring blasting at all depths for foundations in foundations of Structures, Pipe Trenches, Tunnels, Sewer lines, Drains, Compound walls, etc. as per drawing (Trapezoidal Section) to required levels, grade and dressing complete as per Specifications and Directions of Engineer in both Dry and Wet condition including necessary Shoring, Pumping out of water, Slush removal etc and disposal of the surplus excavated material in spoil dumps/ fill areas at all heights and descents including levelling as directed by the Engineer, all material, tools plant and labour complete upto a lead of 1km.
a	0 to 1.50m below GL
b	1.50m to 3.0m below GL
c	3.0m to 4.50m below GL
d	4.50m to 6.50m below GL
e	6.50m to 7.00m below GL
B	SAND / SAND GRAVEL MIX
B1	Supplying and filling of coarse sand in foundations, plinth, underneath flooring and in soaking pits etc as shown in the drawing and as directed the Engineer, complete in all respects.
B2	Supplying and filling of sand gravel mix (1:1) in foundations, plinth, underneath flooring and in side walls etc as shown in the drawing and as directed by the Engineer, complete in all respects.
C	PLAIN AND REINFORCED CONCRETE
C1	Supplying, laying and compacting plain cement concrete (1:2:4) as defined by IS: 456 in all mudmats / leveling courses including filling of loose pockets etc under foundations, Pipelines, Tunnels, Floors, etc., at all depths below Plinth
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	level as per drawings, Specifications and instruction of the Engineer including curing but excluding the cost of Shuttering all materials tools, plants and labour complete.
C2	Supplying, laying and compacting plain cement concrete (1:5:10) as defined by IS: 456 in all mudmats / leveling courses including filling of loose pockets etc under foundations, Pipelines, Tunnels, Floors, etc., at all depths below Plinth level as per drawings, Specifications and instruction of the Engineer including curing but excluding the cost of Shuttering all materials tools, plants and labour complete.

D	BRICK WORK
D1	Random rubble masonry with hard blue GRANITE STONE with cement mortar 1:6 (1 Cement : 6 Coarse river sand) as per drawing, Technical Specification or as directed at site including providing necessary bound stones as per relevant IS including Transportaion, Placing, Centering with all Lead, Lift, Labours, Tools, Plant, Equipment etc all complete. During placing of stone proper care has to be taken for the LDPE sheet andy damage to the sheet the contractor should replace it at his cost and risk.
E	LDPE SHEETS
E1	Taking delivery from stores and laying in position 500 micron LDPE of specified thickness of approved make and quality below grade slab, side walls and embankments paving etc. with necessary pressure adhesive tapes or with serrated joints made by an electric rod complete as directed and instructed by Engineer/Owner (Minimum lap of sheets be 50 to 75mm unless noted otherwise) Note : Two Layers
	TOTAL
NOTE :	
	1.Cement and LDPE sheets will be supplied free of cost.
	2 Any extra earthwork due to mistake should be filled with PCC only at contractors cost and
	3 Only approved material to be used.

