

ABSTRACT OF COST

NAME OF WORK: CONSTRUCTION OF CENTER OF EXCELLENCE (COE) FOR GREEN HYDROGEN AT GANDHIDHAM

Sr. no.	Item Description	TOTAL QTY.	Rate		Unit		Amount
			In Fig.	In Words	In Fig.	In Words	
	PART-D : EXTERNAL DEVELOPMENT - RCC ROAD WORK						
1	Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m in All kinds of soil, as directed by Engineer-in-Charge.	6,167.000			SQM	One Sqaure Meter	
2	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, in All kinds of soil, as directed by Engineer-in-Charge.	899.000			CUM	One Cubic Meter	
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	556.000			CUM	One Cubic Meter	
4	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	432.000			CUM	One Cubic Meter	
5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 40 mm nominal size).	163.000			CUM	One Cubic Meter	
6	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction	1,048.000			CUM	One Cubic Meter	
7	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.						
(A)	Thermo-Mechanically Treated bars of grade Fe-500D or more.	1,96,430.000			KG	One Kilogram	
8	Centering and shuttering including strutting, propping etc. and removal of form for all heights :						
(A)	Footings	596.000			SQM	One Sqaure Meter	
(B)	Plinth Beams	807.000			SQM	One Sqaure Meter	
(C)	Walls	200.000			SQM	One Sqaure Meter	
(D)	Slabs	300.000			SQM	One Sqaure Meter	
(E)	RCC columns	1,349.400			SQM	One Sqaure Meter	
9	Providing and laying autoclaved aerated cement blocks masonry with 150mm/ 230mm/300 mm thick AAC blocks in super structure above plinth level up to floor V level with RCC band at sill level and lintel level with approved block laying polymer modified adhesive mortar all complete as per direction of Engineer-in-Charge. (The payment of RCC band and reinforcement shall be made for separately).	139.000			CUM	One Cubic Meter	
10	15 mm cement plaster on the rough side of single or half brick wall of mix :						
(A)	1:6 (1 cement: 6 fine sand)	1,435.000			SQM	One Sqaure Meter	

11	Rough cast plaster upto 10 m height above ground level with a mixture of sand and gravel or crushed stone from 6 mm to 10 mm nominal size, dashed over and including the fresh plaster in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand) and top layer 10 mm cement plaster 1:3 (1 cement : 3 fine sand) mixed with 10% finely ground hydrated lime by volume of						
(A)	Ordinary cement finish using ordinary cement	1,710.000			SQM	One Sqaure Meter	
12	P/L Dholpur stone 25mm thk. As shown in drawings, including, fixing, material, carting etc.complete.	280.000			SQM	One Sqaure Meter	
13	Structural steel work in single section, fixed with or without connecting plate, including cutting,hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	52,491.000			KG	One Kilogram	
14	Finishing walls with Acrylic Smooth exterior paint of required shade :	1,435.000			SQM	One Sqaure Meter	
15	Dismantling manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge .						
(A)	Water bound macadam road	630.000			CUM	One Cubic Meter	
16	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5 cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth with lead upto 50 metres.	3,872.000			SQM	One Sqaure Meter	
17	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level .						
(A)	1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	315.000			CUM	One Cubic Meter	
18	"Providing and laying design mix cement concrete of M 30 grade, in roads/ taxi tracks/ runways, using cement content as per design mix, using coarse sand and graded stone aggregate of 40 mm nominal size in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/ camber, finishing with required texture, including steel form work with sturdy M.S. channel sections, curing, making provision for contraction/expansion, construction & longitudinal joints (10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, complete all as per direction of Engineer-in						
(A)	Cement concrete prepared with batch mixing machine	630.000			CUM	One Cubic Meter	
19	Proving & fixing Dowel bars 25mm dia. & 600m long with necessary sleeve as directed by Engineer in charge	3,706.000			KG	One Kilogram	
20	Providing and fixing in position pre-moulded joint filler in expansion joints.	630.000			per cm depth per cm width per m length	per cm depth per cm width per m length	

21	<p>Providing and placing in position precast reinforced cement concrete waffle units, square or rectangular, as per design and shape for floors and roofs in 1:1½:3 (1 Cement : 1½ coarse sand : 3 graded stone aggregate 10 mm nominal size), including flush or deep ruled pointing at joints with Cement mortar 1:2 (1 Cement : 2 Fine sand)making necessary holes of required sizes for carrying through service lines etc., providing steel hooks for lifting etc, form work in precasting,handling, hoisting, centering and erection complete for all floor levels but, excluding the cost of reinforcement.</p>	13.000			CUM	One Cubic Meter	
----	--	--------	--	--	-----	-----------------	--

[illegible]