

Estimate for Construction of New Swimming Pool in Existing Swimming Pool Campus, Sandy's Compound, Bhagalpur

Sr. No.	Ref. Code	Description of Item	Unit	Qty.	Rate (In Rs.)	Amount (In Rs.)
1	2	3	4	5	6	7
	Civil Work					
1	BCD_SOR_2022_2.6.1, Page No. 98	Earth work in excavation over areas (exceeding 30 cm in depth. 1.5 m in width as well es 10 sqm on plan) including disposal of excavated earth , lead upto 50 m and lift upto 1.5 m; disposed earth to be levelled and neatly dressed. All Kinds of soil	Cum	555.53	₹ 314.90	₹ 1,74,937.84
2	BCD_SOR_2022_2.25(A), Page No. 101	Excavating, supplying and filling of local earth (including royalty but excluding cairriage cost) by mechanical transport upto a lead of 3km also including ramming and watering of the earth in layers not exceeding 20 cm in trenches, plinth, sides of foundation etc. complete. If local earth is available at more than 3 km lead the actual lead must be approved by compitent authority. cairraiage of material will be paid seperately and calculated after deducting initial lead.	Cum	166.66	₹ 411.70	₹ 68,614.08
3	BCD_SOR_2022_2.28, Page No. 101	Supplying and filling in plinth with local sand and under floors including, watering, ramming, consolidating and dressing complete.	Cum	25.41	₹ 287.30	₹ 7,299.01
4	BCD_SOR_2022_11.72, Page No. 192	Providing designation 100 A one brick flat soling joints filled with local sand including cost of watering, taxes, royalty all complete as per building specification and direction of E/l.	Sqm	401.77	₹ 283.30	₹ 1,13,821.61
5	BCD_SOR_2022_4.1.3, Page No. 104	Providing and laying in position cement concrete of specified grade exluding the cost of centring and shuttering- all work upto plinth level. 1:2:4 (1 Cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size)	Cum	33.50	₹ 3,998.10	₹ 1,33,919.40
6	BCD_SOR_2022_5.33.1, Page No. 114	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 of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. All works up to plinth level	Cum	0.00	₹ 0.00	₹ 0.00
7	BCD_SOR_2022_5.33.1.1, Page No. 114	Concrete of M-25 grade with minimum cement content of 330 kg/cum RCC in Pool bottom raft & Pool wall - M25 Concrete of M-25 grade with minimum cement content of 330 kg/cum (All workk upto Plinth Level)	Cum	82.80	₹ 5,063.40	₹ 4,19,242.68
8	BCD_SOR_2022_5.33.1.2, Page No. 114	Concrete of M-30 grade with minimum cement content of 350 kg/cum RCC in Pool bottom Raft M30	Cum	30.00	₹ 5,189.10	₹ 1,55,673.00
9	BCD_SOR_2022_5.9.2, Page No. 110	Centring and shuttering including strutting, propping etc. and removal of form for. Walls (any thickness) including attached pilasters. Butteresses, plinth and string courses etc.	Sqm	200.00	₹ 375.10	₹ 75,020.00
10	BCD_SOR_2022_5.22.7B, Page No. 112	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete: Thermo-Mechanically Treated bars TMTC-500-10mm dia.	Kg	18055.00	₹ 92.60	₹ 16,71,893.00
11	BCD_SOR_2022_6.18.3A, Page No. 120	Half brick masonry with bricks of class designation 100A in foundations and plinth in: Cement mortar 1:3 (1 cement: 3 coarse sand)	Sqm	84.50	₹ 621.50	₹ 52,514.76

Estimate for Construction of New Swimming Pool in Existing Swimming Pool Campus, Sandy's Compound, Bhagalpur						
Sr. No.	Ref. Code	Description of Item	Unit	Qty.	Rate (In Rs.)	Amount (In Rs.)
1	2	3	4	5	6	7
12	BCD_SOR_2022_13.19, Page No. 208	18 mm cement plaster in two coat under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6mm thick cement plaster 1:3(1 cement: 3 coarse sand finished rough with sponge	Sqm	161.00	₹ 218.20	₹ 35,130.20
13	BCD_SOR_2022_22.8.1, Page No. 311	Providing and laying integral cement based water proofing treatment including prepatation of surface as required for treatment of roofs, balconies , terraces etc, consisting of following operations. (a) Applying and grouting a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with proprietary water -proofing compound cleaning the surface before treatment, (b) Laying cement concrete using broken bricks / brick bats 25 mm to 100 mm size with 50 % of cement mortar 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement: 5 coarse sand) admixed with proprietary water proofing compound conforming to IS 2545 to reuires slope and treating similary the adjoining walls upto 300 mm height including rounding of junctions, or walls ad slabs. (c) After two days of proper curing applying a secoung coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement: 4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300 x 300 mm square. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test, All above operations to be done in order and as directed and specified by the Engineer-in-Charge. With average thickness of 120 mm and minimum thickness at khurras point to be 65	Sqm	336.13	₹ 850.70	₹ 2,85,945.79
14	BCD_SOR_2022_11.53, Page No. 190	Providing and fixing Glass mosaaic tiles at finished plain wall surface of size 20 mm x 20 mm x 4 mm in all colour, design , fixing in customize design as per direction of Engineer-in- Charge. The glass mosaic tiles to be fixed on the wall surface with the help of approved adhesive applied at the rate of 2.5 kg per sqm and grouting of the same. The rate is inclusive of all operation, material and required pattern approved by Engineer-in-Charge.	Sqm	406.36	₹ 3,095.70	₹ 12,57,974.84
15		Carriage of Materials	-	-	-	₹ 1,14,264.04
16		Cost Difference	-	-	-	₹ 5,760.71
17		Total Cost of Civil Works including 12% GST (A)	-	-	-	₹ 45,72,010.97
18		Impact of Differenial GST on Civil Works (A)	-	-	-	₹ 2,45,059.79
19		Total Cost of Civil Works (A) including 18% GST (B)	-	-	-	₹ 48,17,070.75
	Plumbing Work	Pool Electro-mechanical works with Plumbing inculding construction of Filtration Plant Room+ Balancing Tank etc with all GFC Dwaring required for the work (C)	Job	-	-	₹ 10,47,348.90
20		Total Construction Cost [D=B+C]	-	-	-	₹ 58,64,419.65
21		Add: Seigniorage @ 2% of Civil Work (E)	-	-	-	₹ 96,341.42
		Total Project Cost [F=D+E]				₹ 59,60,761

