

Schedule of Quantity

Name of Work : Repair of Internal road & Main Gate repair at IVRI Office Complex Palampur Kangra (HP).

S.No.	Description of item	Qty	Unit	Rate i/c Cost Index 16.82% Cost Index	Amount
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
1.1	All kinds of soil.	20.00	Cum	295.87	5,917.00
2	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.				
2.1	All kinds of soil	417.00	Sqm	38.82	16,188.00
3	Excavating holes more than 0.10 cum & upto 0.5 cum including getting out the excavated soil, then returning the soil as required in layers not exceeding 20cm in depth, including consolidating each deposited layer by ramming, watering etc, disposing of surplus excavated soil, as directed within a lead of 50 m and lift upto 1.5 m.				
3.1	All kinds of soil	45.00	Each	93.71	4,217.00
4	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
4.1	1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources)	98.00	Cum	7409.43	7,26,124.00
5	Centering and shuttering including strutting, propping etc. and removal of form work for:				
5.1	Foundations, footings, bases for columns	32.00	Sqm	445.74	14,264.00
5.2	Columns, piers, abutments, pillars, posts and struts	11.00	Sqm	1092.66	12,019.00
6	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
6.1	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	8.00	Cum	10281.92	82,255.00
7	Providing and laying cement concrete in retaining walls, return walls,walls (any thickness) including attached pilasters, columns, piers,abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets,sunken floor etc., up to floor five level, excluding the cost of centering,shuttering and finishing:				
7.1	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	0.50	Cum	12336.10	6,168.00

S.No.	Description of item	Qty	Unit	Rate i/c Cost Index 16.82% Cost Index	Amount
8	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
8.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	638.00	Kg	122.59	78,212.00
9	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
9.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	16.00	Cum	8106.93	1,29,711.00
10	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing of edges to give high gloss finish etc. complete at all levels.				
10.1	Granite stone slab of colour black, Cherry/Ruby red				
10.1.1	Area of slab upto 0.50 sqm	2.00	sqm	6153.31	12,307.00
10.1.2	Area of slab over 0.50 sqm	25.00	sqm	5838.22	1,45,956.00
11	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete.	351.00	Kg	151.97	53,341.00
12	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
12.1	Hot finished welded type tubes	1623.00	Kg	220.97	3,58,634.00
13	Providing and fixing mild steel round holding down bolts with nuts and washer plates complete.	450.00	Kg	110.49	49,721.00
14	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
14	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	1500.00	Kg	196.19	2,94,285.00

S.No.	Description of item	Qty	Unit	Rate i/c Cost Index 16.82% Cost Index	Amount
15	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	269.00	Sqm	839.60	2,25,852.00
16	12 mm cement plaster of mix :				
16.1	1:4 (1 cement: 4 coarse sand)	164.00	Sqm	406.18	66,614.00
17	Neat cement punning.	57.00	Sqm	90.87	5,180.00
18	Finishing walls with Acrylic Smooth exterior paint of required shade :				
18.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	109.00	Sqm	182.54	19,897.00
19	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
19.1	Two or more coats on new work	143.00	Sqm	177.20	25,340.00
20	Providing and applying white cement based putty of average thickness 1mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	109.00	Sqm	177.38	19,334.00
21	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
21.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	62.00	Cum	2766.92	1,71,549.00
21.1.1	Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	62.00	Cum	1709.08	1,05,963.00
22	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-charge.	4.00	Cum	4036.67	16,147.00
23	Dismantling steel work in built up sections in angles, tees, flats and channels including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 metres lead.	1000.00	Kg	6.43	6,430.00

S.No.	Description of item	Qty	Unit	Rate i/c Cost Index 16.82% Cost Index	Amount
24	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 :				
24.1	bituminous road	214.00	Sqm	487.06	1,04,231.00
25	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved	50.00	Cum	300.02	15,001.00
26	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-charge (Item of joint fillers, sealants, dowel bars with sleeve/ tie bars to be paid separately).				
26.1	Note:- Cement content considered in M-30 is @ 340 kg/cum. Excess/ less cement used as per design mix is payable/ recoverable separately.				
26.1.1	Cement concrete prepared with batch mixing machine	114.00	Cum	11968.28	13,64,384.00
27	Providing and filling in position rubberized bitumen hot sealing compound for sealing of expansion joints in roads / pavements all complete as per direction of the Engineer-in-Charge.				
27.1	Using grade 'A' sealing compound conforming to IS: 1834.	593.00	per cm depth per cm width per metre length	9.84	5,835.00
28	Taking away G.I C.I pipe G.S sheet, M.S. items and other dismantled unserviceable materials steel fittings complete as per direction of Engineer-in-Charge.	1200.00	Kg	-30.00	-36,000.00
				Total	41,05,076.00

Note: If the quoted rates comes below the estimated rate, the contractors abatement will not be applicable on item No.28

**Executive Engineer (Civil)
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