

BILL OF QUANTITY

Name of Work : Construction of Rithakhani (Katpatiya) to Dobans Motor road (Stage - I) (Km 11.00) under PMGSY.

Block : Munakot

District : Pithoragarh

S.No.	Chapter Name	Item of Work	Quantity	Unit	Rate in ₹	Amount in ₹
A	HILL SIDE CUTTING					
1		Earth work in hill road (hill side cutting/filling):- Excavation in hilly area for construction of road in all types of soils & rocks with E&B and B&B as met at site true to lines as per plan, X section, L section camber, super elevation as required also including uprooting & cutting of bushes dressing of road surface to the required level and slopes with all lead, lifts and safe disposal of surplus excavated material at suitable dumping places by mechanical means/ manual means indicated in the drawing without damaging forest and forest land including slip clearance during hill side cutting as directed by Engineer-in-charge.				
A	77629	8-3-2-A Soil	98662.69	Cum	107.80	10635837.98
B	77633	8-3-4 Ordinary Rock	31560.12	Cum	160.10	5052775.21
C	77634	8-3-5-A Hard Rock	7044.36	Cum	292.00	2056953.12
		Sub-Total	137267.17	Cum	Total	17745566.31
2	75529	16-28-1 Clearance of land slides in soil and ordinary rock by a bull-dozer D 80 A-12, 180 HP and disposal of the same on the valley side.	19732.54	Cum	71.00	1401010.34
					Total	19146576.65
B	PROTECTION WORK					
3	77629	11-1-1-1 Excavation in foundation for retaining & breast walls in all types of soils and rocks including lead, lift and disposal of surplus material as per direction of engineer - in charge.	8061.48	Cum	237.30	1912989.2
4	77638	8-4-3 Construction of retaining walls/breast walls in cement mortar 1:5 as per drawing and technical specifications Clause 1604. Stone masonry in cement mortar 1:5.	1789.94	Cum	3064.80	5485808.11
5	75478	16-3 Random Rubble Masonry laid dry in breast wall, retaining wall, parapets, scupper etc. Including supply of all materials, labour, t & p & royalty etc, required for proper completion of work. (As per PWD Uttarakhand specifications).	7585.78	Cum	1532.90	11628242.16

Junior Engineer
Irr. Div., P.W.D., Pithoragarh

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सिंचाई खण्ड लो०नि०वि०
पिथौरागढ़
Assistant Engineer
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पिथौरागढ़

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S.No.	Chapter Name		Item of Work	Quantity	Unit	Rate in ₹	Amount in ₹
6	77642	8-4-7	Back filling behind retaining wall/breast wall	5647.15	Cum	590.20	3332947.93
7	Analysis attached		Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia PVC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specification Clauses 614, 709, 1204.3.7.	2076	Nos	169.90	352712.40
8	77664	8-9	Providing edge stones on valley side of formation as per drawing and Technical Specification Clause 1608.2.6.	2475.00	Rm	116.00	287100.00
9	Analysis attached		Construction of parapet in cement plum concrete with 40% stone & 60% 1:2:4 cement concrete including supply of all material, labour, T&P etc. required for proper completion of the work.(As per drawing sanctioned by CE Kumaon zone, PWD).	261	Nos	4391.49	1146178.89
10	75487	16-9-2-1	Providing and laying of wire crates 3.00x1.50x1.50 in size with a 8 gauge BWG GI wire conforming to IS: 280 & IS:4826 in 150mm x 150mm mesh laid with stone boulders weighing not less than 25 kg each.(As per PWD Uttarakhand Specification).	607.50	Cum	1483.20	901044.00
11	75150	8-2-(2)	Construction of back pillars, of length 300mm, width 300mm and height 400mm of which 100 mm shall be below ground level as per Fig. 1600.1 (b) and Technical Specification Clause 1602.3 of MORD specifications for rural roads.	11.00	Km	23595.90	259554.90
12	75151	8-2-(3)	Construction of Job pillars of length 400mm, width 400mm and height 600mm of which 100 mm shall be below ground level as per Fig. 1600.1 (d) and Technical Specification Clause 1602.4 of MORD specifications for rural roads.	11.00	Km	596.10	6557.10

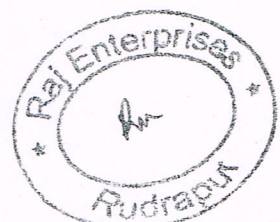
Checked & Corrected
Junior Engineer (Technical)

Photo copy Attached

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Executive Engineer
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पिथौरागढ़

S.No.	Chapter Name	Item of Work	Quantity	Unit	Rate in ₹	Amount in ₹
13	75149	8-2-(1) Construction of reference pillars (totally under ground) of length 200mm, width 200mm and height 300mm) as per Fig. 1600.1 (b) and Technical Specification Clause 1602.1 of MORD specifications for rural roads.	11.00	Km	6347.60	69823.60
14	77482	16-6 Granular sub-base/base/surface course with local materials (Table 400.13) by mix in place method normal Construction of granular sub-base by providing local material spreading in uniform layers with motor grader on prepared surface, mixing by mix in place method with rotavator at once and compacting with smooth wheel roller to achieve the desired density complete as per Clause 401.4 as per Technical Specification Clause 408. Using naturally occurring gravel.	5639.12	Cum	500.70	2823507.38
15	75481	16-6 Random Rubble stone masonry in Coolie walling including supply of all material, labour, T&P etc. required for proper completion of the work.(As per PWD Uttarakhand specifications).	1980.00	Cum	1159.10	2295018.00
					Total	30501483.67
C	Hill Side Drain					
16	75506	16-14-a Longitudinal katcha drain. C/O of katcha drain per m.	8074.40	m	92.40	746074.56
17	75502	16-13-1-a Longitudinal Pucca Drains. Construction of pucca drain as per drawing including supply of all material, labour, T&P etc. required for proper completion of the work. C/O of pucca drain with CC per m.	2700.00	m	2137.00	5769900.00
					Total	6515974.56
D	CROSS DRAINAGE WORKS					
i)	Scupper					
18	75497	16-12-2 C/O 1 m span scupper with CC base . Construction of 1 m span scupper with cc base of RR 1: 6 abutment ,RCC slab as per attached drawing including supply of all material, labour, T&P etc. required for proper completion of the work.	414.90	m	21791.90	9041459.31
ii)	Causeway					
19	77749	11-1-1-1 Excavation in foundation for retaining & brest walls in all types of soils and rocks including lead, lift and disposal of surplus material as per direction of engineer in charge	63.36	Cum	237.30	15035.33

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Executive Engineer
Irr. Div., P.W.D., Pithoragarh

S.No.	Chapter Name		Item of Work	Quantity	Unit	Rate in ₹	Amount in ₹
20	77758	11-4-1-1	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203. P.C.C grade M 10. Nominal mix 1:3:6.	31.68	Cum	5420.60	171724.61
21	77765	11-4-5	Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203. R.C.C. grade M 25.	15.84	Cum	7321.10	115966.22
22	77765	12-6	Supplying, fitting and placing HYSD bar reinforcement (Fe 415) in substructure complete as per drawings and technical specification Clauses 1002, 1005, 1010 & 1202.	0.62	MT	63647.90	39461.70
23	77638	8-4-3	Construction of retaining walls/breast walls in cement mortar 1:5 as per drawing and technical specifications Clause 1604. Stone masonry in cement mortar 1:5.	159.10	Cum	3064.80	487609.68
24	75478	16-3	Random Rubble Masonary laid dry in breast wall, retaining wall, parapets, scupper etc. Including supply of all materials, labour, t & p & royalty etc, required for proper completion of work. (As per PWD Uttarakhand specifications)	31.68	Cum	1532.90	48562.27
E ROAD FURNITURE						Total	9919819.12
25			Reinforced cement concrete M15 grade kilometre stone/local stone of standard design as per IRC:8 fixing in position including painting and printing, etc as per drawing and Technical Specification Clause 1703				
(i)	77735	10-10-(i)	5th Kilometer Stone (precast)	2	Nos	3806.20	7612.40
(ii)	77736	10-10-(ii)	Ordinary Kilometer Stone (Precast)	9	Nos	2332.90	20996.10
(iii)	77737	10-10-(iii)	200 m stone (precast)	44	Nos	603.90	26571.60

Photo copy Attached

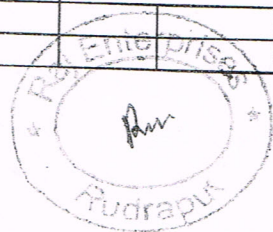
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S.No.	Chapter Name	Item of Work	Quantity	Unit	Rate in ₹	Amount in ₹
28	Analysis attached	Providing & fixing of PMGSY Logo Board at starting point, end point and at every 2 Km distance of road length as per attached standard drawing duly painted and written as per MORD specification and direction by Engineer in charge.	7	Nos	2967.96	20775.72
29	Analysis attached	Providing & fixing of Citizen Information Board with PMGSY Logo at starting or prominent location (where maximum no. of citizens can view the detail of the road) as per attached standard drawing duly painted and written as per the MORD specification and direction of Engineer-in-charge.	2	Nos	12719.06	25438.12
30	77726 10-3-B	Direction and place indentification signs up to 0.9 sqm size board. Providing and erecting direction and place identifications of semi reflective sign boards as per IRC:67 made of 2 mm thick M.S. Sheet duly stove enameled paint in white colour in front and grey colour on back with red reflective border of 70 mm width and required message, letters, figures with reflective engineering grade tape as per MORD specifications of required shade and colour. Supported and welded on 47 mm x 47mm of 12 SWG Square tube of 3050 mm height duly strengthened by 25 mm x 5 mm M/s flat iron on edges on back firmly fixed to the ground by means of properly designed foundations with M-15 grade cement concrete 450 mm x 450 mm x 600 mm, 600 mm below ground level as per approved drawing and Technical Specification Clause 1701.	9.90	m	3007.30	29772.27
					Total	333517.31
F	OTHER WORKS					
31	URRDA Rates dated 7 June 2012	Preparation of detailed project report (D.P.R) including preliminary & detail survey work, preparation of proposal of forest & private land etc. as directed by Engineer in charge for proper completion of work.	11.00	Km	46440.00	510840.00
					Total	510840.00
G/Total			(A+B+C+D+E+F)=			66928211.31



Checked & Corrected
Junior Engineer (Technical)

Junior Engineer
Irr. Div., P.W.D., Pithoragarh

Assistant Engineer
Irr. Div., P.W.D., Pithoragarh

Say ₹ 669.28 Lac
Cost of Environment Protection Works ₹ 108.62 Lac
Grand Total ₹ 777.90 Lac
Grand Total for Format F-6 ₹ 678.70 Lac
Grand Total for Format F-7 ₹ 99.20 Lac
Grand Total for Format (F-6 + F-7) ₹ 777.90 Lac

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