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BILL OF QUANTITY

Name of Work : Construction of Didihat to Jamtari (Stage - I) Motor road in K.M. 10.525 under PMGSY.

Block : Kanalichhina

District : Pithoragarh

242

S/No	Reference to MORD Specification	Item of Work	Qty	Unit	Rate	Amount
		HILL SIDE CUTTING				
1	1603.1	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 BLB 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 with out damaging forest and forest land including slip clearance during hill side cutting as directed by Engineer-in-charge.				
A	8-3-2-A	Soil	107412.23	Cum	105.30	11310507.82
B	8-3-4	Ordinary Rock	46158.42	Cum	157.00	7246871.94
C	8-3-5-A	Hard Rock	5822.62	Cum	288.10	1677496.82
		Sub-Total	159393.27	Cum		20234876.58
2	As per PWD specification	Cartage for excavated materials (Soil) at a suitable dumping places for environmental protection of Khud side land of the road and as directed by Engineer-in-Charge & as per P.W.D. specification.	22049.54			996639.21
3	As per PWD specification	Slip Clearance after hill side cutting during rainy seasons including supply of all materials, labour, T&P etc required for proper completion of work and as directed by Engineer-in-Charge & as per P.W.D. specification.	31878.65	Cum	45.20	1440914.98
			21482.45	Cum	68.60	1473696.07
					Total	23149487.63
		PROTECTION WORK				22705211.86
4	305	Excavation for Structures:- Earth work in Excavation foundation for cross drainage structures, retaining walls, breast walls & other similar structures in all types of soils and rocks as met at site with all leads, lifts and disposal of surplus earth as directed by engineer in charge including supply of all material labour, T&P etc. required for proper completion of work in accordance with the MORD specification.				

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S/No	Reference to MORD Specification	Item of Work	Qty	Unit	Rate	Amount
A	2-4-1	For R/Wall & B/Wall	3688.83	Cum	243.30	897492.95
5	1604.3	Random Rubble stone masonry for structures laid in 1:5 cement & sand mortar by locally available approved stone and sand from approved quarry including supply of all materials, labour, T&P etc required for proper completion of work as per drawing & as per MORD specification for cross drainage structures, retaining walls, breast walls & other similar structures etc. as directed by Engineer-in-Charge.				897492.95 243
A	2-4-3	For R/Wall & B/Wall	2874.50	Cum	3105.60	8927047.2
6	704.6, 1604.3 16-3	Random Rubble stone masonry for structure laid dry by locally available approved stone, including supply of all materials, labour, T&P etc required for proper completion of work as per drawing & as per MORD specification for retaining walls, breast walls & other similar structures as directed by Engineer-in-Charge.	8595.67	Cum	1557.70	13389475.16
7	1204.3.8	Providing & laying filter media as Hand packed stone filling in the back of retaining walls, abutments, wing walls etc. by locally available approved stone including supply of all material, labour, T&P etc. required for proper completion of the work as directed by Engineer in charge.				
A	2-4-7	For R/Wall	5268.26	Cum	597.80	3149365.83
8	1608.2.6	Providing Edge stone on valley side of formation as per drawing including supply of all materials, labour, T&P etc. required for proper completion of the work as per MORD Specification and as directed Engineer-in-charge.	0.00	Per No.	52.97	0.00
9 (a)	700, 1208.4	Construction of parapet in RR stone masonry laid in 1:5, C/S mortar providing M10 cement concrete in top, plaster in 1:4 C/S mortar & flush pointing in 1:3 C/S mortar as required and specified in detailed drawing with white washing complete as per the direction of Engineer in charge. (without base concrete)				
9 (b)		Construction of parapet in RR stone masonry laid in 1:5, C/S mortar providing M10 cement concrete in top, plaster in 1:4 C/S mortar & flush pointing in 1:3 C/S mortar as required and specified in detailed drawing with white washing complete as per the direction of Engineer in charge. (with base CC M10)	284.00 92.00	Rmt Rmt	1107.91 1630.33	314646.44 149989.992 149990.36

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S/No	Reference to MORD Specification	Item of Work	Qty	Unit	Rate	Amount
10	1301.4.3 14-2	Providing and laying of boulder apron laid in wire crates with 4 mm dia G.I. Wire conforming to IS: 280 & IS: 4826 in 100mm x 100mm mesh (woven diagonally) including 10% extra for laps and joints laid with stone boulders weighting not less than 25 Kg each as per drawing and technical specification of MORD and as directed by Engineer in charge.	883.13	Cum	2017.60	1781793.00 1781805.09
11	1602.1,1602.2,1602.3 16-32-2	Providing and fixing of cutting/back pillars of RR stone masonry with Mud mortar of soze 30x30x40 including top & three face plaster & material as directed by below ground, disposal of surplus material as directed by Engineer in charge for proper completion of work duly painted and written as per of Er-in-charge (40 No/Km) as per MORD specification Clause No. 1602.1, 1602.2, 1602.3	421.00	Per No.	231.70	97545.70
12	1602.1,1602.2,1602.3 16-32-3	Providing and fixing of job pillar of RR stone masonry with Mud mortar of size 40x40x60 in depth including top & three face plaster & excavation 10 cm below ground, disposal of surplus material as directed by Engineer in charge for proper completion of work duly painted and written as per of Er-in-charge (4 No/Km) as per MORD specification Clause No. 1602.1, 1602.2, 1602.3	2.00	Per No.	582.50	1165.00
13	1602.1,1602.2,1602.3 16-32-1	Providing and fixing of reference pillar of RR stone masonry with Mud mortar of soze 20x20x30 including top & three face plaster & top edge reference pillar shall be at ground level and disposal of surplus material as directed by Engineer in charge for proper completion of work duly painted and written as per of Er-in-charge (40 No/Km) as per MORD specification Clause No. 1602.1, 1602.2, 1602.3	421.00	Per No.	64.20	27028.20
14	408	Granular sub-base/base/surface course with local materials 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 wheeled roller to achieve the desired density complete as per Clause 401.4 and as per Technical Specification Clause 408. SI No 4.11 (1) (ii)	5117.36	Cum	492.90	2522345.27

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S/No	Reference to MORD Specification	Item of Work	Qty	Unit	Rate	Amount
		Side Drain				
15	307.2 16-14-a	Construction of Hill side Kutcha drain (0.50mX 0.45m) size as per drawing excluding in gaps for C/D structures including excavation in all type of soil and rock as met at site with all material, labour, T&P lead, lift & disposal of excavated material etc. as directed by Engineer in charge.				245
16	1606.1 16-13-3-a	Construction of Hill side Pucca KC drain in accordance with the requirement of specification true to line and grades. Dimensions and other particulars as per drawing including all material labour T&P. etc. required for proper completion of the work as directed by Engineer in charge.	9000.00	Rmt	92.60	833400.00
			499.00	Rmt.	695.10	346854.90
		CROSS DRAINAGE WORKS			Total	1180254.90
17	1606.5 16-12-2	Construction of Pucca scupper including catch pit, including supply of all materials, labour, T&P etc required for proper completion of work as per drawing & MORD specification as directed by Engineer-in-Charge.				
18		Providing & Laying M10 grade plain cement concrete in open foundation as per MORD specification including all material labour T&P etc. as directed by Engineer in charge. (Causeway/Culvert/Bridge)	469.80	Mtr	21936.90	10305955.62
19	800 704.4 12-4-1-2	C.R. Stone masonry laid in 1:4 cement/sand mortar for abutment of minor bridges, culverts etc. including all material labour T&P etc. required for proper completion of work as directed by Engineer in charge. (for Culvert/Bridge)	133.78	Cum	5499.10	735669.60
20	704.5 12-4-1-3	C.R. Stone masonry laid in 1:5 cement/sand mortar for abutment of minor bridges, culverts etc. including all material labour T&P etc. required for proper completion of work as directed by Engineer in charge. (for Culvert/Bridge)	207.06	Cum	4428.90	917048.03
21	13-1-2 1200	P/L M25 grade R.C.C in slab of culvert and minor bridges as per MORD Specification including all material labour T&P etc. as directed by Engineer in charge.	218.43	Cum	4003.80	874550.03
22	13-4 1202	Sply, fitting and placing MS bar reinforcement in superstructure complete as per drawing and technical specification Clauses 1002,1010 and 1202	198.29	Cum	8393.30	1664307.46
			138.87	Qtl.	5723.94	794803.55
					Total	15292439.76
23	1703	ROAD FURNITURE Providing and fixing of Kilometer stone as per standard drawing made of precast R.C.C. M15 grade fixed with P.C.C. M10 grade, including excavation of pit, painting and printing letters on kilometer stone with two coat of synthetic enamel paint of approved quality as directed by Engineer in charge.	10.00	Nos		2243.50

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S/No	Reference to MORD Specification	Item of Work	Qty	Unit	Rate	Amount
24	1703	Providing and fixing of 5th Kilometer stone as per standard drawing made of precast R.C.C. M15 grade fixed with P.C.C. M10 grade, including excavation of pit, painting and printing letters on kilometer stone with two coat of synthetic enamel paint of approved quality as directed by Engineer in charge.				246
25	1703	Providing and fixing of Hectometer stone as per standard drawing made of precast R.C.C. M15 grade fixed with P.C.C. M10 grade, including excavation of pit, painting and printing letters on kilometer stone with two coat of synthetic enamel paint of approved quality as directed by Engineer in charge.	2.00	Nos	3687.20	7374.40
26	1701.2.6 & 1701.2.7	Providing fixing of Title Information Board with PMGSY Logo at suitable place in the starting of the road as per attached standard drawing duly painted and written as per the MORD specification and direction given by Engineer in charge.	42.00	Nos	587.50	24675.00
27	1701.2.2 10-2-B-(ii)	Providing & fixing of Semi reflective Traffic Sign Boards (cautionary, mandatory & informatory) as per attached drawing duly painted and written as per the MORD specification and as directed by Engineer-in-charge.	1.00	Nos	12707.80	12707.80
28	1701.2.7	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.	105.00	Nos	3327.10	349345.50
29	1701.2.7 & Annexure 1700.1	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.	6.00	Nos	2556.60	15339.60
30	1701 10-3-A-(i)	Providing & fixing of Semi reflective Direction and Place Identification Sign Boards up to 0.90 sqm size as per attached drawing and as per the MORD Specification and as directed by Engineer in charge.	3.00	Nos	17595.40	52786.20
			9.473	Sqm	4442.40	42080.63
		Total				526744.13

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S/No	Reference to MORD Specification	Item of Work	Qty	Unit	Rate	Amount
		OTHER WORKS				
31	As per PWD specification	Surveying & preparation of detailed Project Report (DPR).	10.525	Kms	40460.00	425841.50
		Total	71672256.14			425841.50
		G/Total	78438806.54			71832662.67
		Say			716.72 Rs.	784.39 718.32
		Cost of Environment Protection Works				Lac
						57.58
						73.27
		Grand Total			774.30	841.97 791.59
						Lac
		Grand Total for Format F - 6			621.30	689.04 638.67
		Grand Total for Format F - 7				152.92
		Grand Total for Format (F - 6 + F - 7)			774.30	841.96 791.59

A.A.E. Jr. Engineer
R.E.S., P.I.U. - II, PMGSY
Pithoragarh

Asst. Engineer
R.E.S., P.I.U. - II, PMGSY
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Checked

Ex. Engineer
R.E.S., P.I.U. - II, PMGSY
Pithoragarh



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