Muck Disposal Index

Muck Disposal Plan for Up-gradation to two lane with paved shoulders from Km 0.000 (Dharasu) to Km 24.300 (Silkyara bend) section of NH-94 under EPC Mode.

- Calculation of Muck quantity and available dumping Yards
- Nature of Land choosen for Muck Disposal
- Cross section of Muck Disposal Plan

अधिशासी अभियन्ता
रा0मा0 खण्ड, लो0नि0वि0
बड़कोट (उत्तरकाशी)

S. No.	Particulars	Quantity (Cum)
1	Total Disposal in dumping zone(348997.846*60/100)	209398.70
Total		**209398.70**

Location and Capacity of dumping Yards

Sr. no.	Location	Size	Type of Land	Capacity of Dumping Yard (Cum)
1	Km 2(1+	(105 m x 116 m x 60 m_*1/3	Reserve Forest	243600.00
2	Km 14(13+530)	(71.5 m x 77 m x 40 m)*1/3	Reserve forest,Civil & Naap land	73406.66
3	Km 14 (13+790)	(50 m x 90 m x 25 m)*1/3	Civil & Naap land	37500.00
	Total			**354506.66**

Sr. No.	Total Debris	Reuse material for road construction	Total disposal in Dumping Zone	Capacity of the Dumping Zone	Balance Debris
1	209398.70	-	209398,70	354506.66	(-) 145107.96

❖ **The Total Muck generated is less than the capacity of Dumping Yards Proposed.**

अधिशासी अभियंता
रा0मा0 खण्ड, लो0नि0वि0
बड़कोट, उत्तरकाशी

वन क्षेत्राधिकारी
उत्तरकाशी वन प्रभाग

प्रभागीय वनाधिकारी,
उत्तरकाशी वन प्रभाग,
उत्तरकाशी

उप प्रभागीय वनाधिकारी
उत्तरकाशी उप वन प्रभाग
उत्तरकाशी

ABSTRACT OF COST

NAME OF WORK – REHABILITATION AND UPGRADATION 2-LANE/2-LANE WITH PAVED SHOULDER CONFIGURATION & STRENGTHENING OF NATIONAL HIGHWAYS - NO. 94 FROM KM 0.00 (DHARASU BAND) TO KM 24.300(SILKYARA BAND) IN THE STATE OF UTTARAKHAND.

SL NO.	ITEM OF WORK	AMOUNT
1	2	3
1	REHABILITATION AND UPGRADATION 2-LANE/2-LANE WITH PAVED SHOULDER CONFIGURATION & STRENGTHENING OF NATIONAL HIGHWAYS NO. 94	Rs. 7676108.80
	Add 12 % G.S.T on item No-1	921133.06
	Total	**Rs. 8597241.86**

Junior Engineer

Assistant Engineer
N. H. Division , P.W.D.
Barkot (Uttarkashi)

Executive Engineer
N. H. Division , P.W.D.
Barkot (Uttarkashi)

BILL OF QUANTITY

NAME OF WORK – REHABILITATION AND UPGRADATION 2-LANE/2-LANE WITH PAVED SHOULDER CONFIGURATION & STRENGTHENING OF NATIONAL HIGHWAYS NO. 94 FROM KM 0.00 (DHARASU BAND) TO KM 24.300(SILKYARA BAND) IN THE STATE OF UTTARAKHAND.

Sl. No.	ITEMS OF WORK	QTY.	UNIT	RATE	UNIT	AMOUNT
1	2	3	4	5	6	7
1	Providing and Laying of Mechanically Woven Double Twisted Hexagonal shaped Gabions of galvanized steel, of size 3mX1mX1m with two diaphragms at 1m interval, having mesh opening 100mmx120 mm, mesh wire diameter 3 mm for gabions, edge/selvedge wire diameter 3.9 mm and lacing wire diameter 2.2 mm. (The work includes filling boulders in the gabions).					
		1013.00	Nos	7577.60	Sqm	7676108.80
				Total		**7676108.80**

JE

AE

EE

DETAIL OF MEASURMENT

NAME OF WORK – REHABILITATION AND UPGRADATION 2-LANE/2-LANE WITH PAVED SHOULDER CONFIGURATION & STRENGTHENING OF NATIONAL HIGHWAYS NO. 94 FROM KM 0.00 (DHARASU BAND) TO KM 24.300(SILKYARA BAND) IN THE STATE OF UTTARAKHAND.

Sl. No.	Item of Work	No.	Length	Width	Hight/Depth	Qtty.	Unit
1	2	3	4	5	6		
1	Providing and Laying of Mechanically Woven Double Twisted Hexagonal shaped Gabions of galvanized steel, of size 3mX1mX1m with two diaphragms at 1m interval, having mesh opening 100mmx120 mm, mesh wire diameter 3 mm for gabions, edge/selvedge wire diameter 3.9 mm and lacing wire diameter 2.2 mm. (The work includes filling boulders in the gabions).						
	Gabions for protection of Dumping yard						
	Chainage- 2+00 (105.00 m)	1x5	105			525.00	Nos
	Chainage- 13+530 (72.00 m)	1x4	72			288.00	Nos
	Chainage- 13+730 (50.00 m)	1x4	50			200.00	Nos
				TOTAL		**1013.00**	**Nos**

JE

AE

Sl. No.	Description	Rate	Unit
1-7	Providing and laying of wire crates 3.00x1.50x1.50 in size with GI wire conforming to IS: 280 & IS:4826 in 150mm x 150mm mesh laid with stone boulders. as per direction of Engineer-in- charge. (As per PWD Uttarakhand specifications)		
1-7-1	GI wire 10 gauge BWG	1,508.10	Cum
1-7-2	GI wire 8 gauge BWG	1,689.90	Cum
1-8	Providing and Laying of Mechanically Woven Double Twisted Hexagonal shaped Gabions (Zinc plus PVC coated), of size 3mX1mX1m with two diaphragms at 1m interval, having mesh opening 100mmx120 mm, mesh wire diameter 2.7mm/3.7mm, edge/selvedge wire diameter 3.4/4.4 mm and lacing wire diameter 2.2/3.2 mm. (The work includes filling boulders in the gabions).	7,395.80	No.
1-9	Providing and Laying of Mechanically Woven Double Twisted Hexagonal shaped Gabions of galvanized steel, of size 3mX1mX1m with two diaphragms at 1m interval, having mesh opening 100mmx120 mm, mesh wire diameter 3 mm for gabions, edge/selvedge wire diameter 3.9 mm and lacing wire diameter 2.2 mm. (The work includes filling boulders in the gabions).	7,577.60	No.
1-10	Clearance of land slides (Slip Clearance)		
1-10-1	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 complete as directed by the Engineer-in-charge.	69.40	Cum
1-10-2	Clearing of land slide in hard rock requiring blasting for 50 per cent of the boulders and disposal of the same on the valley side (Using bull-dozer) complete as directed by the Engineer-in-charge.	111.60	Cum
1-10-3	Slip clearance (by manual means) of loose earth and other small loose materials including disposal complete as directed by the Engineer-in-charge.	183.50	Cum
1-10-4	Slip clearance (by manual means) of earth and boulders including disposal complete as directed by the Engineer-in-charge.	184.20	Cum
1-10-5	Slip clearance (by manual means) of boulders only including disposal complete as directed by the Engineer-in-charge.	197.20	Cum
1-11	Setting Out (Construction of Reference Pillars, Back Pillars and Job Pillars)		
1-11-1	Construction of reference pillars with RR 1:6 stone masonary and Plastered with 1:4 Mortar, (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.	53.70	No.

JE

KM-2

HILL SIDE

ROAD

60 M

HEIGHT OF GABION INCREASES AS PER HEIGHT OF DUMPPING QUANTITIES AND PLANED AT OPEN FACE OF DUMPING MATERIALS

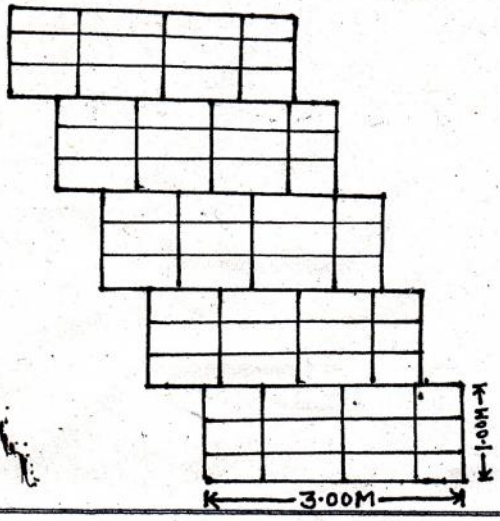
LENGTH - 105 MT

IN ONE ROW - $\frac{105\ MT}{1\ MT}$

- 105 NO

SO IN 5 ROW - 5X105

- 525 NOS



KM (13+530)

HILL SIDE

ROAD

116m

40 M

HEIGHT OF GABION INCREASES AS PER HEIGHT OF DUMPPING QUANTITIES AND PLACED AT OPEN FACE OF DUMPING MATERIALS

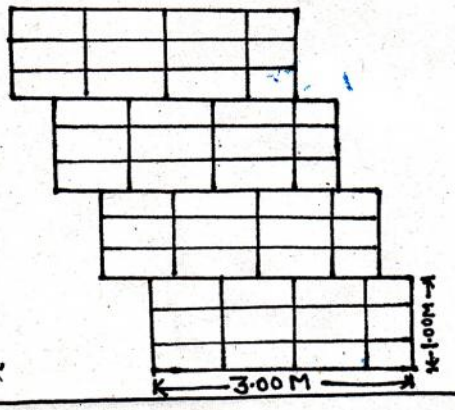
LENGTH - 72 MT

IN ONE ROW - $\frac{72\ MT}{1\ MT}$

- 72 NO

SO IN 4 ROW - 4X72

- 288 NOS



KM (13+730)

HILL SIDE

ROAD

25 M

HEIGHT OF GABION INCREASES AS PER HEIGHT OF DUMPPING QUANTITIES AND PLACED AT OPEN FACE OF DUMPING MATERIALS

LENGTH - 50 MT

IN ONE ROW - $\frac{50\ MT}{1\ MT}$

- 50 NO

SO IN 4 ROW - 4X50

- 200 NOS