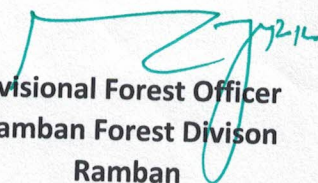


Name of Project:-4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir
Proposal No. :-FP/JK/ROAD/145108/2021

ABSTRACT OF THE BIOLOGICAL MEASURES OF MUCK DUMPING SITES

S.No.	DUMPING SITE	Area	Fencing	Afforestation					Geo-textile Mat	Amount (in Lacs)
				Plantation	Agave	Grass slips	Cuttings	Seed Balls		
1	MDS1a Marog	2.7519	4000	4200	11000	11000	2800	2800	5000	28.12583
2	MDS1b Marog	2.0535	3000	3100	8300	8300	2100	2100	5000	25.21232
3	MDS2 Marog	15.7285	8000	24000	62000	62000	15800	15800	20000	115.7098
4	MDS3 Digdole	3.1997	4000	4800	12800	12800	3200	3200	1000	16.05127
5	MDS 4a Digdole	4.6953	5000	6800	18000	18000	4500	4500	3000	27.17141
6	MDS 4b Digdole	3.47	4600	5300	14000	14000	3500	3500	1000	17.52
TOTAL		31.8989	28600	48200	126100	126100	31900	31900	35000	229.7906


Range Officer
Forest Range Ramban


Divisional Forest Officer
Ramban Forest Division
Ramban


**Biological measures for stabilization of muck dumping site MDS1a Marog
(Area=2.7519 ha)**

Name of Project:-4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

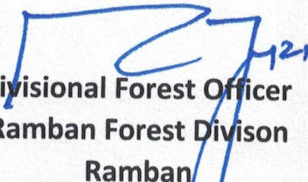
Proposal No. :-FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	4000	100	400000
2	Afforestation (1st year)				
i.	Plantation:- Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	4200	29.34	123228
ii.	Agave:- Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	11000	15.45	169950
iii	Grass slips:- (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	11000	6.35	69850
iv	Cutting:- Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	2800	6	16800
v	Seed ball:- Broad casting/ dibbling of seed balls	Nos.	2800	2.35	6580
	Total 2				386408
3	Maintenance for 9 years: 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			270485.6
4	Geo Textile Mat etc	Sq.M.	5000	300	1500000
	Total (1+2+3+4)				2556893.6
5	Overhead 10% of total				255689
	Grand Total				2812583

Say **28.13**
Lacs


Block Officer
Forest Block Ramban


Range Officer
Forest Range Ramban


Divisional Forest Officer
Ramban Forest Division
Ramban

**Biological measures for stabilization of muck dumping site MDS1b Marog
(Area=2.0535 ha)**

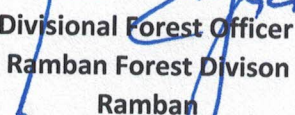
Name of Project:- 4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

Proposal No. :- FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	3000	100	300000
2	Afforestation (1st year)				
i.	Plantation:- Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	3100	29.34	90954
ii.	Agave:- Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	8300	15.45	128235
iii	Grass slips:- (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	8300	6.35	52705
iv	Cutting:- Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	2100	6	12600
v	Seed ball:- Broad casting/ dibbling of seed balls	Nos.	2100	2.35	4935
	Total 2				289429
3	Maintenance for 9 years: 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			202600.3
4	Geo Textile Mat etc	Sq.M.	5000	300	1500000
	Total (1+2+3+4)				2292029
5	Overhead 10% of total				229203
	Grand Total				2521232

Say **25.21**
Lacs


Range Officer
Forest Range, Ramban


Divisional Forest Officer
Ramban Forest Division
Ramban


Block Officer
Forest Block Ramban

Biological measures for stabilizatoin of muck dumping site MDS2 Marog
(Area=15.7285 ha)

Name of Project:-4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

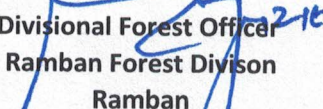
Proposal No. :-FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	8000	100	800000
2	Afforestation (1st year)				
i.	Plantation:- Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	24000	29.34	704160
ii.	Agave:- Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	62000	15.45	957900
iii	Grass slips:- (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	62000	6.35	393700
iv	Cutting:- Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	15800	6	94800
v	Seed ball:- Broad casting/ dibbling of seed balls	Nos.	15800	2.35	37130
	Total 2				2187690
3	Maintenance for 9 years: 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			1531383
4	Geo Textile Mat etc	Sq.M.	20000	300	6000000
	Total (1+2+3+4)				10519073
5	Overhead 10% of total				1051907
	Grand Total				11570980

Say **115.71**
Lacs


Block Officer
Forest Block Ramban


Range Officer
Forest Range, Ramban


Divisional Forest Officer
Ramban Forest Division
Ramban

Biological measures for stabilizat on of muck dumping site MDS3 Digdole
(Area=3.1997 ha)

Name of Project:-4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

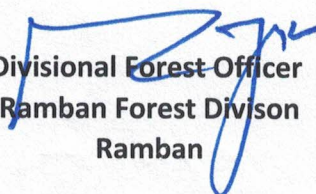
Proposal No. :-FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	4000	100	400000
2	Afforestation (1st year)				
i.	Plantation:- Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	4800	29.34	140832
ii.	Agave:- Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	12800	15.45	197760
iii	Grass slips:- (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	12800	6.35	81280
iv	Cutting:- Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	3200	6	19200
v	Seed ball:- Broad casting/ dibbling of seed balls	Nos.	3200	2.35	7520
	Total 2				446592
3	Maintenance for 9 years: 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			312614.4
4	Geo Textile Mat etc	Sq.M.	1000	300	300000
	Total (1+2+3+4)				1459206
5	Overhead 10% of total				145921
	Grand Total				1605127

Say 16.05
Lacs


Range Officer
Forest Range, Ramban


Block Officer
Forest Block Ramban


Divisional Forest Officer
Ramban Forest Division
Ramban

Biological measures for stabilizatoin of muck dumping site MDS4a Digdole
(Area=4.5953 ha)

Name of Project:-4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

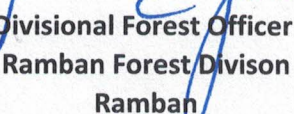
Proposal No. :-FP/JK/ROAD/145108/2021

S.No.	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	5000	100	500000
2	Afforestation (1st year)				
i.	Plantation:- Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	6800	29.34	199512
ii.	Agave:- Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	18000	15.45	278100
iii	Grass slips:- (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	18000	6.35	114300
iv	Cutting:- Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	4500	6	27000
v	Seed ball:- Broad casting/ dibbling of seed balls	Nos.	4500	2.35	10575
	Total 2				629487
3	Maintenance for 9 years: 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			440640.9
4	Geo Textile Mat etc	Sq.M.	3000	300	900000
	Total (1+2+3+4)				2470128
5	Overhead 10% of total				247013
	Grand Total				2717141

Say 27.17
Lacs


Block Officer
Forest Block Ramban


Range Officer
Forest Range Ramban


Divisional Forest Officer
Ramban Forest Division
Ramban

Biological measures for stabilizatoin of muck dumping site MDS4b Digdole (Area=3.47 ha)

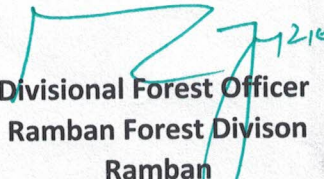
Name of Project:-4 Laning of Ramban Banihal Section of NH 44 (old NH1A) at CRITICAL LOCATIONS between km 151 and km 187 in the UT of Jammu & Kashmir

Proposal No. :-FP/JK/ROAD/145108/2021

S.No	Item of work	Unit	Quantity	Rate	Amount
1	Fencing:- Using Square fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvanized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement concrete 1:3:6 (1 Cement: 3 coarse sand: 6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'	Rft.	4600	100	460000
2	Afforestation (1st year)				
i.	Plantation:- Poly bagged Planting of fast-growing soil binding local species (Trees/ Shrubs) in pits of size (45x45x45) cm in staggered fashion along the contour.	Nos.	5300	29.34	155502
ii.	Agave:- Agave bulbs planted between interspaces of plants, open spaces and along the fence line of size.	Nos.	14000	15.45	216300
iii	Grass slips:- (Soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	14000	6.35	88900
iv	Cutting:- Ipomea/ Vitex/ Popular/ Salix/ Mulberry (area specific)	Nos.	3500	6	21000
v	Seed ball:- Broad casting/ dibbling of seed balls	Nos.	3500	2.35	8225
	Total 2				489927
3	Maintenance for 9 years: 2nd year @ 25% + 3rd year @ 10% + 4th year to 10th year 7x @ 5% = 70 % of afforestation	Year			342948.9
4	Geo Textile Mat etc	Sq.M.	1000	300	300000
	Total (1+2+3+4)				1592875.9
5	Overhead 10% of total				159288
	Grand Total				1752163.49

Say **17.52**
Lacs


Range Officer
Forest Range Ramban


Divisional Forest Officer
Ramban Forest Divison
Ramban