

## MUCK DISPOSAL PLAN

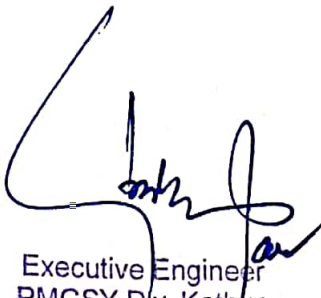
**NAME OF THE PROPOSAL : CONSTRUCTION OF ROAD FROM TREMBLI  
TO DEOTA**

**Proposal No:- FP/JK/ROAD/46769/2020**

**Date of Proposal:- 25/06/2020**

### DETAIL OF MUCK/DEBRIS TO BE PRODUCED

S No	Description of Item	Quantity (cum)
1	Total Quantity of muck to be produced from forest land during construction	1,79,928
2	To be used for soling of road, wearing of road and filling behind retaining walls of road (35% soil)	62974
3	To be used locally for construction of road (50% stone)	89964
4	Total Quantity to be used (2+3)	152938
5	Net Quantity to be dumped (1-4)	26990
6	Swell Factor 18%	4858
7	Total Quantity to be dumped (5+6)	31848

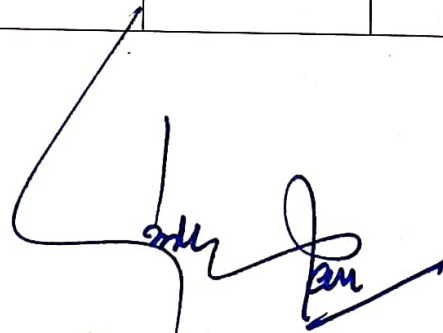
  
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PMGSY Div. Kathua

**STATEMENT SHOWING DETAIL OF PLACES FOR DISPOSAL OF**  
**MUCK/DEBRIS DUE TO CONSTRUCTION OF ROAD FROM TREMBLI TO**  
**DEOTA**

S No	Name of Dumping Place	Location of Dumping Place	Slope of Dumping Place	Length(m), Width(m) and Area(sq.m) of Dumping Place	Height of Dump expected (m)	Quantity of Muck be Dumped (cum)	Remarks (Area in hectares)
1	Dumping Site-1	7/175	-	25x40=1000	4	4000	0.10
2	Dumping Site-2	7/200	-	25x40=1000	4	4000	0.10
3	Dumping Site-3	11/375	-	25x40=1000	4	4000	0.10
4	Dumping Site-4	12/600	-	25x40=1000	4	4000	0.10
5	Dumping site-5	12/950	-	25x40=1000	4	4000	0.10
6	Dumping	14/800	-	25x40=1000	4	4000	0.10

  
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	Site-6			0			
7	Dumping site-7	16/400	-	25x40=100 0	4	4000	0.10
8	Dumping Site-8	20/175	-	25x40=100 0	4	4000	0.10
<b>Total</b>						<b>32000</b>	<b>0.80</b>



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**STATEMENT SHOWING DUMPING QUANTITY OF MUCK/DEBRIS TO BE  
DUMPED WITH OTHER DETAIL FOR PROJECT CONSTRUCTION OF  
ROAD FROM TREMBLI TO DEOTA**

S No	Name of Component from Muck / Debris is to be produced	Total Qty. of Muck/Debris to be produced (cum)	Qty. of Muck/Debris to be utilized locally	Qty. of Muck/ Debris to be dumped (cum)	Factor of increase in volume for dumping	Qty. of Muck/ Debris to be dumped on the basis of increase(cum)	Name of Dumping Places	Slope of Dumping Place	Location of Dumping Place	Distance of Dumping Place from River	Area of Dumping Place (Ha)	Area of forest land involved in Dumping Place	Height of Muck Dump Expected	Remarks
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	Formation cutting work of forest land	1,79,928	152938	26990	18%	31848	Dumping Site 1,2,3,4,5,6,7,8 .	-	7/175 7/200 11/375 12/600 12/950 14/800 16/400 20/175	-	0.80	Nil	4	

  
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# STATEMENT SHOWING COMPLETE DETAILS FOR THE CONSTRUCTION OF ROAD FROM TREMBU TO DEOTA

S No	RD		Distance in mtr			Width of Right of Way (m)	Area of Road		Total Area of Forest Land (Ha)	Name of Village	Qty of Muck to be produced	Qty of Muck to be utilized locally	Swelling Factor	Qty of Muck to be dumped in dumping places
	From	To	Forest Land (m)	Non Forest Land (m)	Total (m)		Forest Land (sqm)	Non Forest Land						
1	0	830	0	300	800	6	0	4800						
2	830	1900	1100	0	1100	6	6600	0						
3	1900	5025	0	0	4175	6	0	0						
4	6025	12375	6950	0	6550	6	41700	0						
5	12375	13575	0	500	600	6	0	3600						
6	13575	20200	6625	0	6625	6	39750	0						
7	20200	22100	0	1900	1500	6	0	11400	10.385	Hottar, Kund, Deota.	179928	152538	1.13	31848
8	22100	23400	1300	0	1300	6	7800	0						
9	Dumping Site 1		25	0	25	40	1800	0						
10	Dumping Site 2		25	0	25	40	1000	0						
11	Dumping Site 3		25	0	25	40	1000	0						
14	Dumping Site 4		25	0	25	40	1000	0						
15	Dumping Site 5		25	0	25	40	1000	0						
16	Dumping Site 6		25	0	25	40	1000	0						
17	Dumping Site 7		25	0	25	40	1000	0						
18	Dumping Site 8		25	0	25	40	1000	0						

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## IMPLEMENTATION OF ENGINEERING MEASURES AT MUCK DUMPING

### SITES:

It has been observed that after disposal of muck, it creates problem as it is susceptible to scattering unless the muck disposal yards are supported with engineering measures such as protective walls. All the dumping sites need proper handling to avoid spilling of muck while dumping and in the post dumping stages. All the muck disposal sites have to be developed from the ground level either by providing stone masonry or by gabion structure (Crate Walls). Two Layered Crate Walls will be provided to support disposed muck. In all the muck dumping sites, the muck brought in by dumpers shall be dumped and manually spread and roller compacted in such a way that rock mass is properly stacked behind the Crate Walls with minimum of voids.

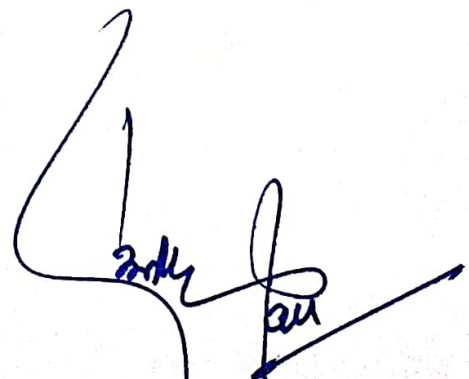
1. Dumping Site-1:- 25 x 40: Crate Wall Required:-  $25+40+40 = 105$  Rmt
2. Dumping Site-2:- 25 x 40: Crate Wall Required :-  $25+40+40 = 105$  Rmt
3. Dumping Site-3:- 25 x 40: Crate Wall Required :-  $25+40+40 = 105$  Rmt
4. Dumping site -4:-25x 40: Crate Wall Required :- $25+40+40 = 105$  Rmt
5. Dumping Site-5:- 25x 40: Crate Wall Required :- $25+40+40 = 105$ Rmt
6. Dumping Site-6:-25x 40:Crate Wall Required :-  $25+40+40 =105$ Rmt
7. Dumping Site-7:-25x 40:-Crate Wall Required:-  $25+40+40= 105$ Rmt
8. Dumping Site-8:-25x 40:-Crate Wall Required :- $25+40+40= 105$ Rmt

Total Length of Crate Wall Required =  $105 \times 8 \text{Nos} = 840$  Rmt

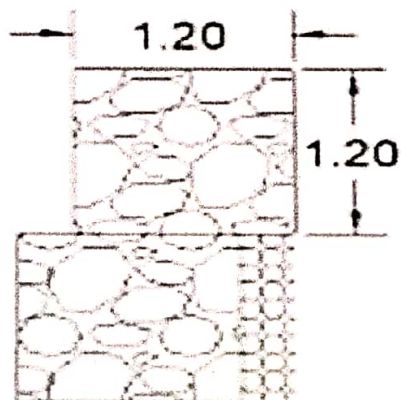
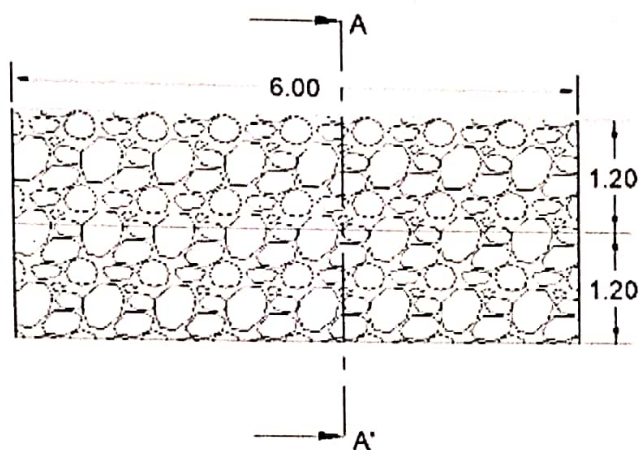
Rate per Rmt of Crate Wall as per model plan provided by PMGSY Jammu = Rs 3735.00 / Rmt

Total Amount of Crate Wall =  $840 \times 3735 = \text{Rs } 31,37,400 = \text{Rs } 31.37 \text{ Lacs}$

This amount required for Crate 31.37 lacs.



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**Abstract of Biological measures for stabilization of Muck Dumping sites of road from Trimbli to Dheota**

S.No	Particular	Area ( in Ha)	Amount
1	Muck Dumping Site-I	0.1	0.46
2	Muck Dumping Site-II	0.1	0.46
3	Muck Dumping Site-III	0.1	0.46
4	Muck Dumping Site-IV	0.1	0.46
5	Muck Dumping Site-V	0.1	0.46
6	Muck Dumping Site-VI	0.1	0.46
7	Muck Dumping Site-VII	0.1	0.46
8	Muck Dumping Site-VIII	0.1	0.46
<b>Total</b>		<b>0.80</b>	<b>3.68</b>

  
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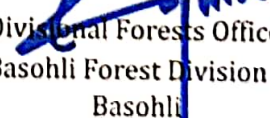
# Biological measures for stabilization of Muck Dumping site-I of road from Trimbli to Dheota Area (0.1 Ha)

S.NO	Item of work	Unit	Quantity	Rate	Amount (in lacs)
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1'.	Rft.	450	72.78	0.33
	<b>Total</b>				<b>0.33</b>
2	<b>Afforestation (1st Year)</b>				
i	<b>Plantation:</b> 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.	100	29.34	0.03
ii	<b>Agave:</b> Agave bulbs planted between interspaces of plants, open spaces & along the fence line.	Nos.	100	15.45	0.02
iii	<b>Grass Slips</b> (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	100	6.35	0.01
iv	<b>Cutting:</b> Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	<b>Seed Ball:</b> Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	<b>Total</b>				<b>0.06</b>
3	<b>Maintenance for 9 years :</b> 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	<b>Total</b>				<b>0.03</b>
	<b>Total (1+2+3)</b>				<b>0.42</b>
4	Overhead 10% of total				0.04
	<b>Grand Total</b>				<b>0.46</b>

  
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**Biological measures for stabilization of Muck Dumping site-II of road from Trimbli to Dheota Area (0.1 Ha)**

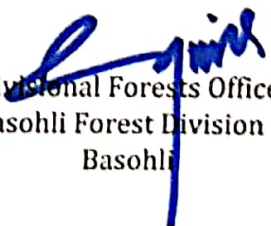
S.NO	Item of work	Unit	Quantity	Rate	Amount (in lacs)
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1'.	Rft.	450	72.78	0.33
	<b>Total</b>				<b>0.33</b>
2	<b>Afforestation (1st Year)</b>				
i	<u>Plantation:</u> 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.	100	29.34	0.03
ii	<u>Agave:</u> Agave bulbs planted between interspaces of plants, open spaces & along the fence line	Nos.	100	15.45	0.02
iii	<u>Grass Slips</u> (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	<u>Cutting:</u> Ipomea/Vitex/Popular/Salix/ (Area specific)	Nos.	100	6	0.01
v	<u>Seed Ball:</u> Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	<b>Total</b>				<b>0.06</b>
3	<u>Maintenance for 9 years</u> : 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	<b>Total</b>				<b>0.03</b>
	<b>Total (1+2+3)</b>				<b>0.42</b>
4	Overhead 10% of total				0.04
	<b>Grand Total</b>				<b>0.46</b>

  
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**Biological measures for stabilization of Muck Dumping site-III of road from Trimbli to Dheota Area (0.1 Ha)**

S.NO	Item of work	Unit	Quantity	Rate	Amount (in lacs)
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1'.	Rft.	450	72.78	0.33
	<b>Total</b>				<b>0.33</b>
2	<b>Afforestation (1st Year)</b>				
i	<b>Plantation:</b> 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.	100	29.34	0.03
ii	<b>Agave:</b> Agave bulbs planted between interspaces of plants, open spaces & along the fence line.	Nos.	100	15.45	0.02
iii	<b>Grass Slips</b> (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	100	6.35	0.01
iv	<b>Cutting:</b> Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	<b>Seed Ball:</b> Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	<b>Total</b>				<b>0.06</b>
3	<b>Maintenance for 9 years :</b> 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	<b>Total</b>				<b>0.03</b>
	<b>Total (1+2+3)</b>				<b>0.42</b>
4	Overhead 10% of total				0.04
	<b>Grand Total</b>				<b>0.46</b>

  
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**Biological measures for stabilization of Muck Dumping site-IV of road from Trimbli to Dheota Area (0.1 Ha)**

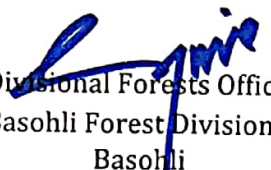
S.NO	Item of work	Unit	Quantity	Rate	Amount (in lacs)
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1'.	Rft.	450	72.78	0.33
	<b>Total</b>				<b>0.33</b>
2	<b>Afforestation (1st Year)</b>				
i	<u>Plantation:</u> 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.	100	29.34	0.03
ii	<u>Agave:</u> Agave bulbs planted between interspaces of plants, open spaces & along the fence line	Nos.	100	15.45	0.02
iii	<u>Grass Slips</u> (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	<u>Cutting:</u> Ipomea/Vitex/Popular/Salix/ (Area specific)	Nos.	100	6	0.01
v	<u>Seed Ball:</u> Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	<b>Total</b>				<b>0.06</b>
3	<u>Maintenance for 9 years :</u> 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	<b>Total</b>				<b>0.03</b>
	<b>Total (1+2+3)</b>				<b>0.42</b>
4	Overhead 10% of total				0.04
	<b>Grand Total</b>				<b>0.46</b>

  
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**Biological measures for stabilization of Muck Dumping site-V of road from Trimbli to Dheota, Area (0.1 Ha)**

S.NO	Item of work	Unit	Quantity	Rate	Amount (in lacs)
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1'.	Rft.	450	72.78	0.33
	<b>Total</b>				<b>0.33</b>
2	<b>Afforestation (1st Year)</b>				
i	<b>Plantation:</b> 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.	100	29.34	0.03
ii	<b>Agave:</b> Agave bulbs planted between interspaces of plants, open spaces & along the fence line.	Nos.	100	15.45	0.02
iii	<b>Grass Slips</b> (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	100	6.35	0.01
iv	<b>Cutting:</b> Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	<b>Seed Ball:</b> Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	<b>Total</b>				<b>0.06</b>
3	<b>Maintenance for 9 years:</b> 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			<b>0.03</b>
	<b>Total</b>				<b>0.03</b>
	<b>Total (1+2+3)</b>				<b>0.42</b>
4	Overhead 10% of total				0.04
	<b>Grand Total</b>				<b>0.46</b>

  
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**Biological measures for stabilization of Muck Dumping site-VI of road from Trimbli to Dheota, Area (0.1 Ha)**

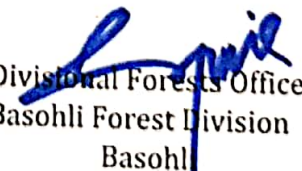
S.NO	Item of work	Unit	Quantity	Rate	Amount (in lacs)
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'6" x1' x1'.	Rft.	450	72.78	0.33
	<b>Total</b>				<b>0.33</b>
2	<b>Afforestation (1st Year)</b>				
i	<b>Plantation:</b> 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.	100	29.34	0.03
ii	<b>Agave:</b> Agave bulbs planted between interspaces of plants, open spaces & along the fence line of site.	Nos.	100	15.45	0.02
iii	<b>Grass Slips</b> (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	100	6.35	0.01
iv	<b>Cutting:</b> Ipomea/Vitex/Popular/Salix/ (Area specific)	Nos.	100	6	0.01
v	<b>Seed Ball:</b> Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	<b>Total</b>				<b>0.06</b>
3	<b>Maintenance for 9 years:</b> 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	<b>Total</b>				<b>0.03</b>
	<b>Total (1+2+3)</b>				<b>0.42</b>
4	Overhead 10% of total				0.04
	<b>Grand Total</b>				<b>0.46</b>

  
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**Biological measures for stabilization of Muck Dumping site-VII of road from Trimbli to Dheota, Area (0.1 Ha)**

S.NO	Item of work	Unit	Quantity	Rate	Amount (In lacs)
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'.6" x1' x1'.	Rft.	450	72.78	0.33
	<b>Total</b>				<b>0.33</b>
2	<b>Afforestation (1st Year)</b>				
i	<b>Plantation:</b> 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.	100	29.34	0.03
ii	<b>Agave:</b> Agave bulbs planted between interspaces of plants, open spaces & along the fence line.	Nos.	100	15.45	0.02
iii	<b>Grass Slips</b> (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	100	6.35	0.01
iv	<b>Cutting:</b> Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	<b>Seed Ball:</b> Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	<b>Total</b>				<b>0.06</b>
3	<b>Maintenance for 9 years:</b> 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	<b>Total</b>				<b>0.03</b>
	<b>Total (1+2+3)</b>				<b>0.42</b>
4	Overhead 10% of total				0.04
	<b>Grand Total</b>				<b>0.46</b>

  
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**Biological measures for stabilization of Muck Dumping site-VIII of road from Trimbli to Dheota, Area (0.1 Ha)**

S.NO	Item of work	Unit	Quantity	Rate	Amount (in lacs)
1	Fencing- using square PCC fence posts conforming to product code PCFP-3 at spacing of 8 feet and 4 strands of black annealed barbed wire conforming to the product code BA-BW. Atleast every 10th fence post along the Straight fence line and every fence post at the corner the fixed in the cement concrete block of size 1'.6" x1' x1' .	Rft.	450	72.78	0.33
	<b>Total</b>				<b>0.33</b>
2	<b>Afforestation (1st Year)</b>				
i	<b>Plantation:</b> 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.	100	29.34	0.03
ii	<b>Agave:</b> Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	100	15.45	0.02
iii	<b>Grass Slips</b> (Soil binding grass Viz. vetivers, Napier, Saccharum munja & Arundo donax	Nos.	100	6.35	0.01
iv	<b>Cutting:</b> Ipomea/Vitex/Popular/Salix/Mulberry (Area specific)	Nos.	100	6	0.01
v	<b>Seed Ball:</b> Broad casting/dibbling of seed balls	Nos.	100	2.35	0.002
	<b>Total</b>				<b>0.06</b>
3	<b>Maintenance for 9 years:</b> 2nd year @25% + 3rd year @ 10% + 4th year to 10 th year 7 x @5% = 70% of afforestation	Year			0.03
	<b>Total</b>				<b>0.03</b>
	<b>Total (1+2+3)</b>				<b>0.42</b>
4	Overhead 10% of total				0.04
	<b>Grand Total</b>				<b>0.46</b>

  
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**PMGSY**

**(PRADHAN MANTRI GRAM SADAK YOJANA)**

**OFFICE OF THE EXECUTIVE ENGINEER PMGSY DIVISION KATHUA**

Near Govt. Boys Hr. Sec. School / Govt. Women's Degree College, Kathua

e-mail: eepmgsykathua@gmail.com

PH/Fax: - 01922-291007

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**TO WHOM IT MAY CONCERN**

**Sub:-** Diversion of 10.835 ha of Forest land for construction of road from Trembli to Dheota. District Kathua, U.T of J&K.

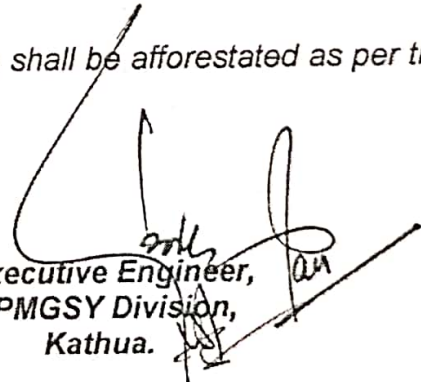
**Reg:-** Online proposal bearing on FP/JK/ROAD/46769 received on dated 16.03.2021.

As per the EDS received vide File No. 9-JKC-027/2021-Jammu Dated 14/04/2021. In this connection, it is certified that after exploring all the possibilities, no muck sites outside the forest land are available.

It is also certified that the muck sites in the forest area shall be afforested as per the norms.

No. EE/PMGSY/Reg-90-93

DH- 23-04-2021

  
Executive Engineer,  
PMGSY Division,  
Kathua.

**Copy to the:-**

- 1) Chief Engineer PMGSY JKRRDA Jammu for favour of information please.
- 2) Superintending Engineer PMGSY Circle Jammu for favour of information please.
- 3) DFO, Basohli Forest Division for favour of information please.
- 4) AEE PMGSY Sub Division Basohli for information & follow up action.