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Jammu & Kashmir Forest Department
Office of the Pr. Chief Conservator of Forests & HoFF
Government of Jammu & Kashmir

C I R C U L A R

Sub: Measures for stabilization of Muck Dumping Sites.

Chief Engineer, PMGSY, Jammu has prepared a Model Plan relating to engineering measures for stabilization of muck dumping sites. All user agencies are advised to prepare the detailed plan on the lines of this Model plan (copy enclosed) for stabilization of muck dumping sites. Execution of the proposed engineering measures shall be carried out by the user agencies from their own resources.

2. In addition to the plan, detailed calculation of muck disposal to dumping sites and their dimension, as per the enclosed sample, is also to be carried out and enclosed with the plan for stabilization of muck dumping sites.

3. Biological measures for stabilization of muck dumping sites has already been shared vide Circular No. PCCF/FCA/3118/6141-80 dated 29-03-2021 (copy enclosed). These measures shall be executed by the Forest Department and cost thereof shall be borne by the user agencies.


(Sarvesh Rai) IFS

Additional Principal Chief Conservator of Forests,
Nodal Officer (FCA)

No: PCCF/FCA/ 3118/ 13-53

Dated: 03-04-2021

Copy to:-

1. Principal Secretary, PWD (R&B), J&K Government, Civil Secretariat, Jammu.
2. Commissioner/Secretary to Government, Forest Department, Civil Secretariat Jammu.
3. All CFs (T)
4. Chief Engineer PMGSY Jammu/ Kashmir
5. All DFOs(T)
6. All user agencies

Union Territory of Jammu and Kashmir

OFFICE OF THE CHIEF ENGINEER PMGSY JKRRDA JAMMU

Phone No.: 0191-2470284, Fax No. : 0191-2479335

E-mail.: cepmsgyjammu@gmail.com

The Additional Pr. Chief Conservator of Forest,
Nodal Officer (FCA)
Van Bhawan, Jammu.

No.: CEJ/PMGSY/ 23372-75

Dated: -3/ /03/2021

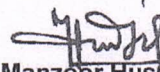
Subject: Engineering Measures for stabilization of Muck Dumping Sites.

Ref: Your Office Circular issued under Endorsement No. PCCF/FCA/3118/6141-80 dated 29.03.2021.

Sir,

As desired vide your above referred letter, kindly find enclosed Model Plan related to Engineering Measures for Stabilization of Muck Dumping Sites in Forest Area with respect to PMGSY Jammu as per Annexure- "A" & "B" for your perusal please.

Yours faithfully,



(Er. Manzoor Hussain)

**Chief Engineer
PMGSY JKRRDA
Jammu**

Copy to the: -

1-3/ Superintending Engineer PMGSY Circle Jammu/Reasi/Batote for information and necessary action.

Model Plan related to Engineering Measures for Stabilization of Muck Dumping Sites in Forest Area.

Typical Estimate for construction of Crated Wall to protect dumping sites of Surplus Muck/Excavated Material in Forest Area as per Engineering Measures.

Taking length of Crated Wall = 60.00 Mtrs.

Trench Excavation in Dense Soil

for structures = 1 x 60 mtr x 1.4 mtr x 0.6 mtr
= 50.40 Cum @ Rs. 332/Cum
= Rs. 16732.80 (say Rs. 16733/-)


For Two layered Crated Wall,

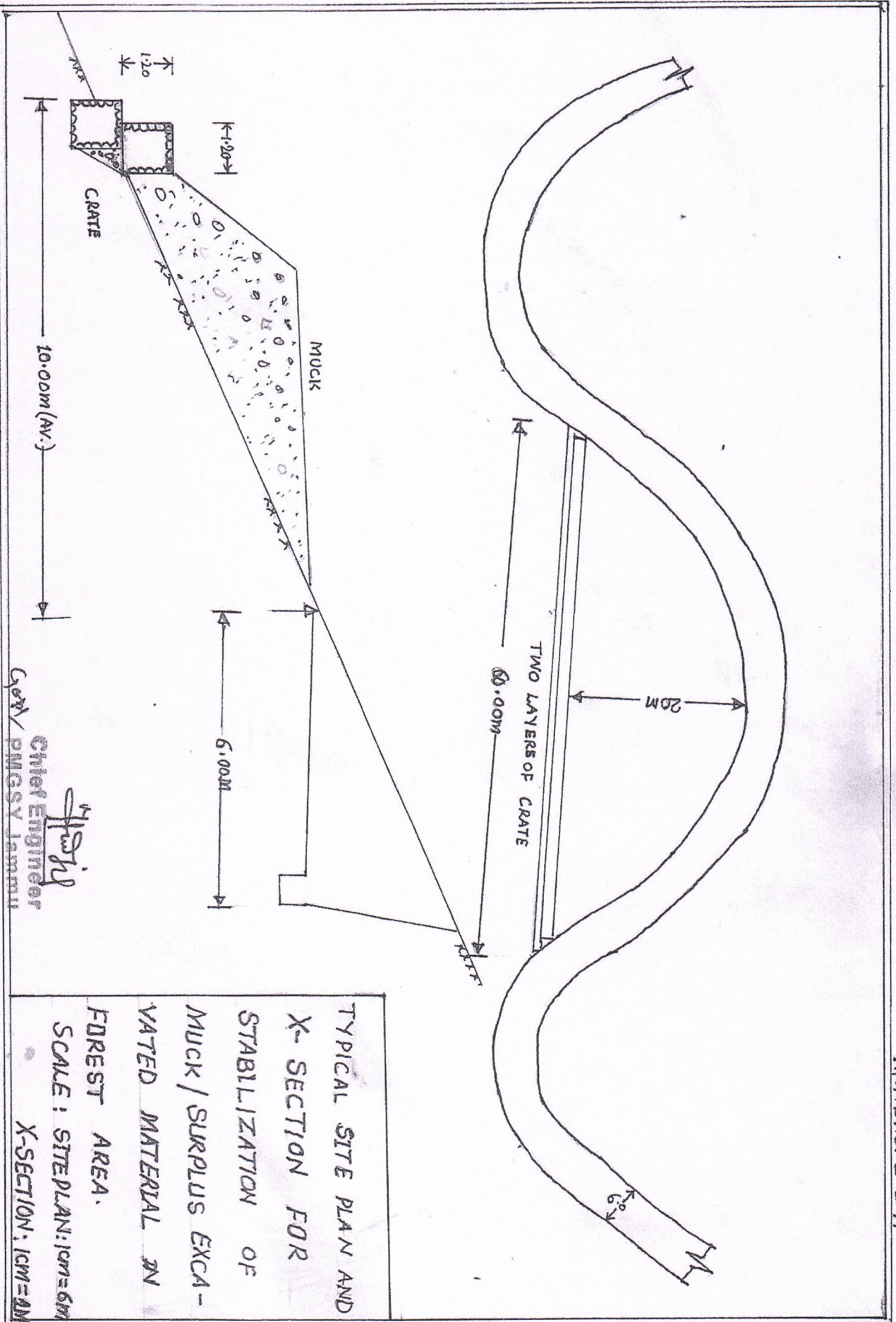
Quantity = 2 x 60 mtr x 1.20 mtr x 1.20 mtr = 172.80 Cum.

Amount = 172.80 Cum @ Rs. 1200/Cum (including cost of crates and labour for handling of available stones)
= Rs. 207360/-

Total amount for 60.00 Mtrs Two Layered Crated Wall = Rs. (16733+207360)
= Rs. 224093/-

Rate per Mtr = Rs. 3734.88 (say Rs. 3735/Mtr).


Chief Engineer
PMGSY JKRRDA
Jammu



Chief Engineer
 PMSGV Jammu

TYPICAL SITE PLAN AND
 X-SECTION FOR
 STABILIZATION OF
 MUCK / SURPLUS EXCA-
 VATED MATERIAL IN
 FOREST AREA.
 SCALE : SITE PLAN: 1cm = 6m
 X-SECTION: 1cm = 2m

Full Title of Project :- CONSTRUCTION OF BRIDGE ON 40 METER SPAN ON DAYOL TO LASANI ROAD 0/00 TO 8/670 UNDRR (PMGSY) OVER PRYAL KHAD.(SUB/HEAD:- CONSTRUCTION OF BRIDGE APPROACHES FROM DAYOL SIDE 0/00 TO 0/385)

File No. :-


Date of Proposal :-

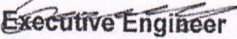
DETAIL OF MUCK/DEBRIS TO BE PRODUCED

Name Of Work:- CONSTRUCTION OF BRIDGE ON 40 METER SPAN ON DAYOL TO LASANI ROAD 0/00 TO 8/670 UNDRR (PMGSY) OVER PRYAL KHAD.(SUB/HEAD:-CONSTRUCTION OF BRIDGE APPROACHES FROM DAYOL SIDE 0/00 TO 0/385) TO BE CONSTRUCTED IN DISTRICT MANDI STATE HIMACHAL PRADESH.

Detail of quantity to be produced and used during the construction of road

Sr. No.	Description of items	Quantity
	Total quantity to be produced during construction	3578.00
1	To be used for soling of road (6.5%),wearing of road (6.5%) and filling behind retaining walls of road (20%) total (33%)	1181
2	To be used for local use for construction of road average (total 33%)	1181
3	Total Quantity to used (2+3)	2362
5	Net quantity to be dumped (3-(1+2))	1216.00
6	Soil factor 40%	486
	G-Total (4+5):-	1702.00


Assistant Engineer
Marhi Sub Division
HPPWD Marhi


Executive Engineer
Dharampur Division
HPPWD Dharampur

ANNEXURE-"B-1"

PERFORMA-V

STATEMENT SHOWING DETAIL OF PLACES FOR DISPOSAL OF MUCK/DEBRIS OF CONSTRUCTION OF BRIDGE ON 40 METER SPAN ON DAYOL TO LASANI ROAD 0/00 TO 8/670 UNDRR (PMGSY) OVER PRYAL KHAD.(SUB/HEAD:- CONSTRUCTION OF BRIDGE APPROACHES FROM DAYOL SIDE 0/00 TO 0/385) TO BE CONSTRUCTED IN DISTRICT MANDI

Sr. No.	Name of dumping places	Location of Dumping place i.e. village Kharsa No.	Slope of dumping place	Length and width (in mtrs.) and Area of Dumping place (in sqm.)	Quantity of muck/Debris to be dumped [in 1000 cum]	Height of dumping expected.	Remarks (Area in bigha)
1	1st Dumping Place : Dayol	RD 0/00 to 0/420 Khasra No.1099/1	1:7	40 x 20 = 800 Sqm	10000.00	6.00	0.08
			Total:-	800	10000.00		0.08

Say 0.08 Hect.

al
Assistant Engineer
Marhi Sub Division
HPPWD Marhi

Executive Engineer
Dharampur Division
HPPWD Dharampur

PROFORMA-III (REFER ITEM-8)

STATEMENT SHOWING DUMPING QUANTITY OF MUCK/DEBRIS TO BE DUMPED WITH OTHER DETAIL FOR PROJECT CONSTRUCTION OF BRIDGE ON 40 METER SPAN ON DAYOL TO LASANI ROAD 0/00 TO 8/670 UNDRR (PMGSY) OVER PRYAL KHAD.(SUB/HEAD:-CONSTRUCTION OF BRIDGE APPROACHES

Sr. No.	Name of component from Muck/Debris is to be produced	Total Qty. of Muck/Debris to be produced (000M3) (in Cum)	Qty. of Muck/Debris to be utilized locally (000M3) (in Cum)	Qty. of Muck/Debris to be Dumped on compact basis (000M3) (in Cum)	Factor of increase in Vol. for Dumping (in Cum)	Qty. of Muck/Debris to be Dumped on basis of increase (000M3) (in Cum)	Name of dumping places	Slop of dumping place	Location of Dumping place, Police Station & Nearby road	Distance of dumping place from river (In KMS)	Area of dumping place with Length and Breadth (In hect)	Area of forest land out of land in Column-10 (In hect)	Height of Muck/Debris dump expected (Vol. Area) (in mtrs.)	Remarks
1	Formation cutting work	3578.00	66% = 2361.00	34% = 1217.00	1.40	1704.00	Dayol	1H : 3V		11	12	13	14	15

sd
Assistant Engineer
Marhi Sub Division
HPPWD Marhi

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Executive Engineer
Dharampur Division
HPPWD Dharampur

Full Title of Project :- CONSTRUCTION OF BRIDGE ON 40 METER SPAN ON DAYOL TO LASANI ROAD 0/00 TO 8/670 UNDRR (PMGSY) OVER PRYAL KHAD.(SUB/HEAD:-
CONSTRUCTION OF BRIDGE APPROACHES FROM DAYOL SIDE 0/00 TO 0/385)
File No. :-

Date of Proposal :-

STATEMENT SHOWING THE ROAD/CANAL/RAILWAY LINE TO BE CONSTRUCTED FROM CONSTRUCTION OF BRIDGE ON 40 METER SPAN ON DAYOL TO LASANI ROAD 0/00
TO 8/670 UNDRR (PMGSY) OVER PRYAL KHAD.(SUB/HEAD:-CONSTRUCTION OF BRIDGE APPROACHES FROM DAYOL SIDE 0/00 TO 0/385)

S.No.	RD		Distance in mtr.			Width of right of way	Area of Road		Total Area in Sqm.	Name of village/Muhal and forest area nearby	Muck/Debris to produce Total cum	Muck/Debris to produce locally from 50%	Muck/Debris dumped locally for work 50%	Remarks
	From	To	Forest land (in mtr.)	Non Forest Land (in mtr.)	Total (in mtr.)		Forest land	Non Forest land						
1	0/00	to	420	0	420.00	5.68	420 x 5.68 = 2385.6 Sqm OR 0.2386 Hec.	0 x 5.68 = 0 Sqm OR 0 Hec.	420 x 5.68 = 2385.6 Sqm OR 0.2386 Hec.	Dayol	3578.00	1789.00	1789.00	

ad
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Dharampur Division
HPPWD Dharampur

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Jammu & Kashmir Forest Department
Office of the Pr. Chief Conservator of Forests & HoFF
Government of Jammu & Kashmir

CIRCULAR

Sub: Biological measures for stabilization of muck dumping sites.

Ref: This office Circular issued under No. PCCF/FCA/3118/4969-5027 dated 17-03-2021

Some of the forest land diversion proposals under the Forest (Conservation) Act, 1980 include proposals for muck dumping sites on forest lands. In such cases, the IRO Jammu has been seeking detailed plan for stabilization of muck dumping sites.

The plan for stabilization of muck dumping sites shall include biological and engineering measures in accordance with the guidelines/model plan shared vide above referred to circular.

A model plan providing biological measures for stabilization of muck dumping sites has been approved by Pr.CCF (HoFF), which is enclosed herewith.

In addition, the user agencies are requested to prepare a Model Plan related to engineering measures for stabilization of muck dumping sites and also to share with this office.

All user agencies are requested to include a detailed plan including biological and engineering measures for stabilization of muck dumping sites in accordance with the Model Plans.

(Sarvesh Rai) IFS

Additional Principal Chief Conservator of Forests,
Nodal Officer (FCA)

Dated 29-03-2021

No. PCCF/FCA/3118/6141-80
Copy to:

1. APCCF Kashmir/CCF Jammu
2. All CFs (T)
3. Chief Engineer PMGSY Jammu/Kashmir
4. Chief Engineer PWD Jammu/Kashmir
5. Project Director NHIDCL
6. Project Director, NHAI
7. Chief Engineer SAMPARAK/BEACON
8. All DFOs(T)

**Biological measures for stabilization of muck dumping site
(per hectare area)**

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.	1300	100	130000
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.	1500	29.34	44010
i	Agave :- Agave bulbs planted between interspaces of plants, open spaces & along the fence line of size.	Nos.	4000	15.45	61800
ii	Grass slips (soil binding grasses Viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	4000	6.35	25400
iv	Cutting:- Ipomea/ Vitex/ Popular/Salix/ Mulberry (area specific)	Nos.	1000	6	6000
v	Seed ball :- Broad casting/dibbling of seed balls.	Nos.	1000	2.35	2350
	Total				139560
3	Maintenance for 9 years: 2 nd year @ 25% + 3 rd year @ 10% + 4 th year to 10 th year 7x@5% = 70% of afforestation	Year			97692
4	Geo Textile Mat	Sq. M.	1000	300	300000
	Total (1+2+3+4)				667250
5	Overhead 10% of total				66725
	Grand Total				733975

Say 7.33 lac