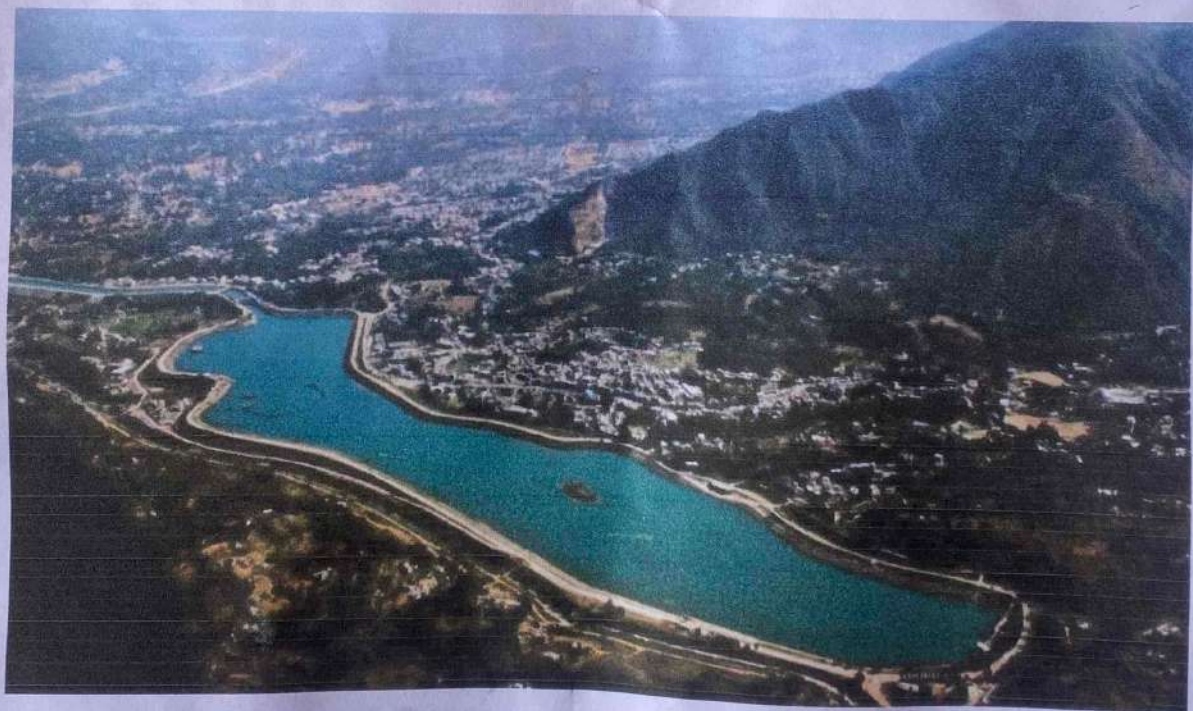
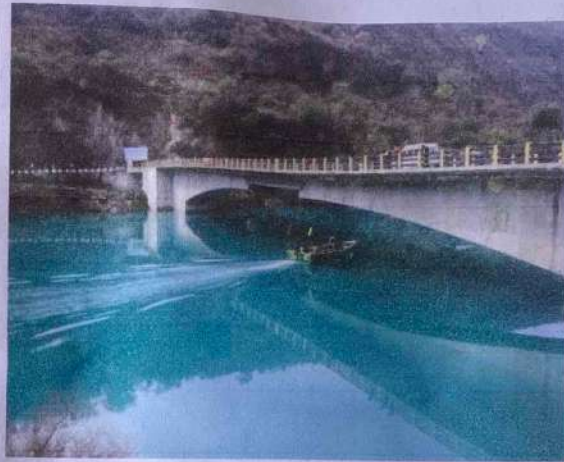


Reclamation Plan with Monitoring Plan for 39 proposed Muck Dumping Site (3.2 Ha.) in respect of FCA proposal for the Construction of Slapper to Tattapani road (Km 8/500 to 61/600), within the jurisdiction of Suket & Karsog Forest Division, Distt. Mandi H.P.



Submitted By:-

Executive Engineer(B&R)

HPPWD Sundernagar

Distt. Mandi H.P.

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Divisional Forest Officer
Suket Forest Division
Sundernagar

Executive Engineer,
Sundernagar Division
HPPWD, Sundernagar

Reclamation Plan with Monitoring Plan for 39 proposed Muck Dumping Site (3.2 Ha.) in respect of FCA proposal for the Construction of Slapper to Tattapani road (Km 8/500 to 61/600), within the jurisdiction of Suket & Karsog Forest Division, Distt. Mandi H.P.

Diversion of **33.3292 Ha.** of forest land has been proposed for the Construction of Slapper to Tattapani road (Km 8/500 to 61/600), within the jurisdiction of Suket & Karsog Forest Division, Distt. Mandi H.P.

The total length of the road is 53.100 Kms, and the length i.e. 42.429 Km passes through the forest land and 10.671 Kms through non-forest land. The road will be constructed in cut and fill method. A total quantity of muck 702630 cum of muck will be generated during the construction of this road. Since after excavation of earth there will be some increase in volume of soil which is calculated at 40%. The serviceable material will be stacked at site in the form of stone/aggregate i.e. 281052 m³ and will be used in dry masonry & edge wall, nearly 20% of muck will have to be disposed off in the identified dumping sites as per reclamation plan.

Thus all the muck generated will be dumped in the designated dumping sites. 39 numbers dumping sites designated as DS-1, DS-2, DS-3, DS-4 and so on up to DS-39 have been indentified for dumping of muck/debris to be produced during the construction phase of the project. It is proposed that the dumping sites are treated in such a manner that these do not pose any problem to the local environment. This reclamation plan has been formulated with the following objectives:-

1. To arrest the dumped muck in situ so that it does not find its way to the nearby drainage channels, thus altering the drainage pattern of the area.
2. To rehabilitate the dumped area over a period of time so that it merges with the adjoining natural landscape and does not stand out as a sore point.
3. To improve the aesthetic view of the dumping grounds/dumping site by planting suitable plants and trees species thereby increasing the vegetable cover in the area.
4. To stabilize the dumping site by vegetative and engineering structure.

Implementation

The proposal will be implemented by the user agency itself at its own cost as detailed in this plan. The implementation of the plan will be supervised by the forest department from time to time and the progress will be periodically monitored. In case of default the sanction of diverted land may be revoked with suitable penalty as decided by the Govt. of India.

9/5
Divisional Engineer,
Suket Forest Division,
Sundernagar

Executive Engineer,
Sundernagar Division
HPPWD, Sundernagar

Strategy

The two phased approach will be followed for reclamation of the dumping sites. In the first instance crate walls will be created around the dumping site so that required capacity for dumping of muck is created at the sites. The detailed drawings of the Crate works to be undertaken are enclosed. The primary objective of the crate works will be to arrest the dumping muck to the dumping site and not to allow its spillage to the adjoining are eventually to nearby drainage lines. The capacity of the dumping sites has been calculated i.e. 395620 cum as detailed in the Muck Management Plan and will be enough to hold the muck to be dumped in each of the sites.

In the second phase once the dumping is complete it will be ensured that the dumping site is planted with the grasses, bushes shrubs so that it gives an aesthetic look. This vegetal cover will also help in binding the soil and will prevent its erosion. For vegetating the dumping sites suitable local species will be preferred. However, It may be noted that bulk of the muck to be dumped will be excavated material which will be lacking in essential nutrients and organic matter and hence it will be desirable to increase the nutrients status of the top soil to be conducive to tree vegetal growth. For this purpose maturing of the top soil be done if required, the imported soil be brought to replenish the top soil. Intently the grasses and bushes will be planted in the area to improve soil condition. Once these grasses and bushes take hold to the site, the tall suitable plants species will be planted in the next phase. The minimum height of plant will be 5 feet and collar dia of plant will be 1.5 to 2 cm. The tall tree species to be planted will be mainly Bail, Taur, Aambla, Robinia, Shisham & Daroo etc. Grasses like Steria and Napier will also propagated. Trees will be planted at the closer spacing so that canopy is closed at the earliest. Hence, the spacing will be kept at 3 X 3 mtrs. The total area involved in the dumping site is 32000 Sqm. Shrubs and bushes will be planted in between these trees. The dumping site will be fenced with rock bared wire fencing to prevent the entry of the stray cattle thereby ensuring the protection of the plant from grazing and otherwise. Also, due to inert nature of the soil, plant will need extra care for their establishment for the purpose imported soil/organic manner will be added in each pit for easy establishment of plants. Watering of the plant in dry session will be provided to prevent mortality. The plantation will be further maintained in project cost for ten years when beating up of failure, will be done.

The cost estimate of dumping site is enclosed as Annexure R and the cost of trees will be met from the yearly programme of plantation during rainy season. The plantation work will be started from the year following the completion of dumping site. However, creation of the crate walls around the dumping sites will be done prior to actual dumping.

cp
Divisional Forest Officer
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Engineering Cost = 1800000.00 (A)

Plantation Cost = 1045300 (B)

Cost of the Reclamation Plan (A+B) = 28,45,300/- (C)

(Twenty-Eight Lakhs Forty-Five Thousand Three Hundred only).


Add 10% of Total Cost of Reclamation Plan for Survey Work, Evaluation & Monitoring = 284530 (D)

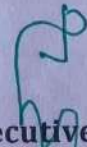
Total Cost of reclamation Plan & Monitoring (C+D) = 31,29,830/-

(Thirty-One Lakhs Twenty-Nine Thousand Eight Hundred Thirty only)

Post Reclamation arrangement:

Since the area in question is required by the user agency only for the temporary use of dumping, hence the area will be reverted back to the forest department after implementing the reclamation plan, if so stipulated by Govt. of India. However, it at the time of so reverting back the forest department if any activity as per this reclamation plan is found wanting then the forest department may realize the cost of that activity from the user agency at the prevailing wage rates applicable in forest department and may get the same done departmentally at the project cost.


Assistant Engineer
HPPWD Sundernagar
Sub-Division Sundernagar


Executive Engineer (B&R)
HPPWD Division
Sundernagar

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Suket Forest Divisic
Sundernagar

Full Title of the Project: - Diversion of 33.3292 hectare of Forest land in favour of HPPWD, for the construction of Slappar to Tattapani Road Km 8/500 to 61/600, Distt. Mandi Himachal Pradesh (Online Proposal No. FP/HP/ROAD/37858/2018).

"SCHEME FOR AFFORESTATION ON 39 MUCK DUMPING SITES OVER 3.2 Ha."

Detailed scheme for afforestation to be carried out at dumping sites (DS1 to DS39) in lieu of diversion of 33.3292 Hectare of Forest Land in favour of HPPWD for the construction of Slappar to Tattapani Road Km 8/500 to 61/600, Distt. Mandi Himachal Pradesh

1. Detail of Dumping site (DS1, DS2, DS3 and upto DS 39)

District **Mandi**
Name of Division **Suket & Karsog** Range **Kangoo/Pangna**

2. Detail of Year Wise Breakup of Requirement of Funds

Particulars of works/ Year	Plants /ha.	Approved Rate of Tall Plants (in Rs.)	10% hike every year of approved rates (in Rs.)	Total amount after 10% hike/ha.	Total Amount for 1600 plants (in Rs.)
A-i Survey, Demarcation, Fencing & Planting Zero Year (B/L Specices as like Daru, Amaltas, Shisham, Taur, Aambla etc.)	500 Plants/ha	180000	18000	198000	633600
1 st Year	3.2 ha	5480	1096	6576	21043.2
2 nd Year	3.2 ha	3020	906	3926	12563.2
3 rd Year	3.2 ha	1390	556	1946	6227.2
4 th Year	3.2 ha	1390	695	2085	6672
5 th Year	3.2 ha	1390	834	2224	7116.8
6 th Year	3.2 ha	1390	973	2363	7561.6
7 th Year	3.2 ha	1390	1112	2502	8006.4
8 th Year	3.2 ha	1390	1251	2641	8451.2
9 th Year	3.2 ha	1390	1390	2780	8896
10 th Year	3.2 ha	1390	1529	2919	9340.8
Total A(i)					729478.4
(A-ii) 1st year maintenance of cost of TALL plants=480 Nos.(i.e. 30% of total number planted in planting year)	83.71	rate of 2024-25 with increase of 10%			40180.8
2nd year maintenance of cost of plants=480 Nos.(i.e. 30% of total number planted in planting year)	91.32				43833.6
3rd year maintenance of cost of plants=320 Nos.(i.e. 20% of total number planted in planting year)	98.93				31657.6
4th year maintenance of cost of plants=240 Nos.(i.e. 15% of total number planted in planting year)	106.54				25569.6
5th year maintenance of cost of plants=240 Nos.(i.e. 15% of total number planted in planting year)	114.15				27396

Executive Engineer,
Sundernagar Division
HPPWD, Sundernagar


Divisional Forest Officer
Suket Forest Division
Sundernagar (H.P.) - 175018

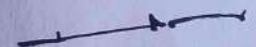
6th year & upto 10th year maintenance of cost of plants=800 Nos.(i.e. 10% of total number planted in planting year)	121.76				97408
Total A-ii					266045.6
Total-A					995524
Contegency charges @ 5%					49776.2
Total					1045300.2
Ten Lakh Forty Five Thousand Three Hundred Only					1045300

5. Technical details

Technical details of Compensatory Afforestation Scheme are as follows :

- General Details : The Plantation will be done through pit method as per plantation norms.
- Spacement : 3x3 mtrs. Between pits & pits of size 60x60x60 cm.
- Species based on locality/site factors, local demand of people and site specific
- Plantation Method : Pit Planting method
- Protection : (Fencing, Watch man, People's Participation etc.)-B-wire fencing using concrete same posts.
- Proposed Monitoring , Mechanism : by higher authority , Monitoring & Evaluation and Divisional Level.
- Any other information. : Nil.


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Sundernagar Division
HPPWD. Sundernagar

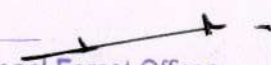

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Sundernagar (H.P.) - 175018


UNDERTAKING FOR MUCK DUMPING

I, Executive Engineer, HPPWD Division Sundernagar, District Mandi, H.P. do hereby undertake that the muck generated during the execution of the said project will be dumped at designated sites as per the attached Muck Management Plan. There will be no violation of dumping regulations at the site. Furthermore, the entire process will be carried out under the guidelines and supervision of the Forest Department, and the dumping sites will be stabilized vegetatively as per the approved plan.



Executive Engineer
HPPWD Division,
Sunder Nagar (H.P.)


General Abstract of Muck Management Plan of 39 Dumping Sites			
Project Name:- Construction of Slapper to Tattapani Road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	702630.00	
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project @15 % at site	105394.50	
2	Net Balance Quantity of Debris/Muck (1-2)	597235.50	Cum (A)
3	Quantity available on site with swell factor @ 40% of (A)	238894.20	Cum (B)
	Total Muck with Swell factor	836129.70	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	41806.49	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	125419.46	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	334451.88	
	Total :- (i)+(ii)+(iii)	501677.82	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	334451.88	Cum (D)
	Total Muck to be dumped in proposed dumping site	334451.88	Cum
	Total Capacity of Muck Dumping Site (39 Nos)	356600	Cum

CPS

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 Suket Forest Division
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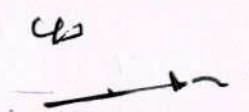

 Executive Engineer,
 Sundernagar Division
 HPPWD, Sundernagar


Muck Management Plan (Dumping Site-1) at RD 8/800 to 8/820			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 20%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (A)
	Total Muck with Swell factor	21686.56	Cum (B)
	Material / Muck to be used in Project:-		Cum (C)
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum (D)
	Total Muck to be dumped in Dumping site No. 1	8674.62	Cum
	Capacity of Muck Dumping Site	9100.00	Cum
	Balance Muck after dumping	0.00	Cum


 Divisional Forest Officer
 Suker Forest Division
 Sundernagar (H.P.) - 175013

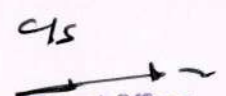

 Executive Engineer,
 Sundernagar Division
 HPPWD. Sundernagar

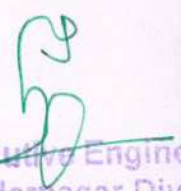
Muck Management Plan (Dumping Site-2) at RD 9/200 to 9/220			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (B)
	Total Muck with Swell factor	21686.56	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum
	Total Muck to be dumped in project site	8674.62	Cum
	Capacity of Muck Dumping Site	9100	Cum
	Balance Muck after dumping	0.00	Cum


 Divisional Forest Officer
 Suker Forest Division
 Sundernagar (H.P.) - 175010

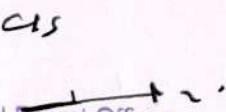

 Executive Engineer,
 Sundernagar Division
 HPPWD, Sundernagar


Muck Management Plan (Dumping Site-3) at RD 10/820 to 10/840			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (B)
	Total Muck with Swell factor	21686.56	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum
	Total Muck to be dumped in project site	8674.62	Cum
	Capacity of Muck Dumping Site	9100	Cum
	Balance Muck after dumping	0.00	Cum


 Divisional Forest Officer
 Suker Forest Division
 Sundernagar (H.P.) - 175018

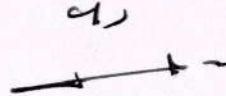

 Executive Engineer,
 Sundernagar Division
 HPPWD, Sundernagar


Muck Management Plan (Dumping Site-4) at RD 11/800 to 11/820			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (B)
	Total Muck with Swell factor	21686.56	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum
	Total Muck to be dumped in project site	8674.62	Cum
	Capacity of Muck Dumping Site	9100	Cum
	Balance Muck after dumping	0.00	Cum


 Divisional Forest Officer
 Suket Forest Division
 Sundernagar (H.P.) - 175018


 Executive Engineer,
 Sundernagar Division
 HPPWD, Sundernagar

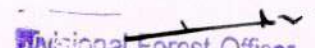
Muck Management Plan (Dumping Site-5) at RD 13/150 to 13/190			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	32640.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	4896.00	
2	Net Balance Quantity of Debris/Muck (1-2)	27744.00	
3	Quantity available on site with swell factor @ 40% of (A)	11097.60	Cum (B)
	Total Muck with Swell factor	38841.60	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1942.08	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	5826.24	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	15536.64	
	Total :- (i)+(ii)+(iii)	23304.96	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	15536.64	Cum
	Total Muck to be dumped in project site	15536.64	Cum
	Capacity of Muck Dumping Site	19520	Cum
	Balance Muck after dumping	0.00	Cum

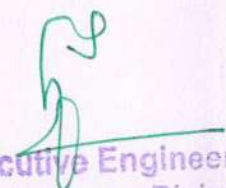

 Divisional Forest Officer
 Suket Forest Division
 Sundernagar (H.P.) - 175015


 Executive Engineer,
 Sundernagar Division
 HPPWD, Sundernagar


Muck Management Plan (Dumping Site-6) at RD 13/410 to 13/430			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (B)
	Total Muck with Swell factor	21686.56	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum
	Total Muck to be dumped in project site	8674.62	Cum
	Capacity of Muck Dumping Site	9100	Cum
	Balance Muck after dumping	0.00	Cum


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 Divisional Forest Officer
 Suket Forest Division
 Sundernagar (H.P.) - 175019

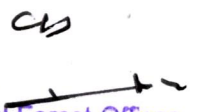

 Executive Engineer,
 Sundernagar Division
 HPPWD, Sundernagar


Muck Management Plan (Dumping Site-7) at RD 14/350 to 14/370			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (B)
	Total Muck with Swell factor	21686.56	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum
	Total Muck to be dumped in project site	8674.62	Cum
	Capacity of Muck Dumping Site	9100	Cum
	Balance Muck after dumping	0.00	Cum

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 Divisional Forest Officer
 Suket Forest Division
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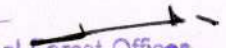

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Muck Management Plan (Dumping Site-8) at RD 15/030 to 15/050			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	2000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	300.00	
2	Net Balance Quantity of Debris/Muck (1-2)	1700.00	
3	Quantity available on site with swell factor @ 40% of (A)	680.00	Cum (B)
	Total Muck with Swell factor	2380.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	119.00	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	357.00	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	952.00	
	Total :- (i)+(ii)+(iii)	1428.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	952.00	Cum
	Total Muck to be dumped in project site	952.00	Cum
	Capacity of Muck Dumping Site	3000	Cum
	Balance Muck after dumping	0.00	Cum


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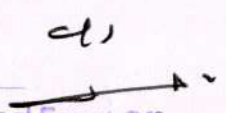
Muck Management Plan (Dumping Site-9) at RD 16/020 to 16/040			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	4000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	600.00	
2	Net Balance Quantity of Debris/Muck (1-2)	3400.00	
3	Quantity available on site with swell factor @ 40% of (A)	1360.00	Cum (B)
	Total Muck with Swell factor	4760.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	238.00	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	714.00	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	1904.00	
	Total :- (i)+(ii)+(iii)	2856.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	1904.00	Cum
	Total Muck to be dumped in project site	1904.00	Cum
	Capacity of Muck Dumping Site	3000	Cum
	Balance Muck after dumping	0.00	Cum


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Muck Management Plan (Dumping Site-10) at RD 17/980 to 18/000			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	3000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	2550.00	
3	Quantity available on site with swell factor @ 40% of (A)	1020.00	Cum (B)
	Total Muck with Swell factor	3570.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	178.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	535.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	1428.00	
	Total :- (i)+(ii)+(iii)	2142.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	1428.00	Cum
	Total Muck to be dumped in project site	1428.00	Cum
	Capacity of Muck Dumping Site	3000	Cum
	Balance Muck after dumping	0.00	Cum

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Muck Management Plan (Dumping Site-11) at RD 20/500 to 20/520			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (B)
	Total Muck with Swell factor	21686.56	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum
	Total Muck to be dumped in project site	8674.62	Cum
	Capacity of Muck Dumping Site	9100	Cum
	Balance Muck after dumping	0.00	Cum


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Muck Management Plan (Dumping Site-12) at RD 22/280 to 22/300			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (B)
	Total Muck with Swell factor	21686.56	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum
	Total Muck to be dumped in project site	8674.62	Cum
	Capacity of Muck Dumping Site	9100	Cum
	Balance Muck after dumping	0.00	Cum

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Muck Management Plan (Dumping Site-13) at RD 24/800 to 24/820			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (B)
	Total Muck with Swell factor	21686.56	Cum (C)
	Material / Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum
	Total Muck to be dumped in project site	8674.62	Cum
	Capacity of Muck Dumping Site	9100	Cum
	Balance Muck after dumping	0.00	Cum

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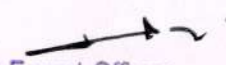
Muck Management Plan (Dumping Site-14) at RD 25/300 to 25/320			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (B)
	Total Muck with Swell factor	21686.56	Cum (C)
	Material / Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum
	Total Muck to be dumped in project site	8674.62	Cum
	Capacity of Muck Dumping Site	9100	Cum
	Balance Muck after dumping	0.00	Cum


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Muck Management Plan (Dumping Site-15) at RD 26/880 to 26/900			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	18224.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	2733.60	
2	Net Balance Quantity of Debris/Muck (1-2)	15490.40	
3	Quantity available on site with swell factor @ 40% of (A)	6196.16	Cum (B)
	Total Muck with Swell factor	21686.56	Cum (C)
	Material / Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1084.33	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	3252.98	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	8674.62	
	Total :- (i)+(ii)+(iii)	13011.94	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	8674.62	Cum
	Total Muck to be dumped in project site	8674.62	Cum
	Capacity of Muck Dumping Site	9100	Cum
	Balance Muck after dumping	0.00	Cum

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Muck Management Plan (Dumping Site-16) at RD 27/980 to 28/000			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum

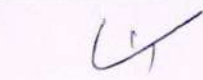

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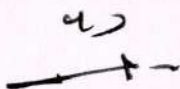
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Muck Management Plan (Dumping Site-17) at RD 30/430 to 30/450			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum

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Muck Management Plan (Dumping Site-18) at RD 32/240 to 32/260			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum


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Muck Management Plan (Dumping Site-19) at RD 33/200 to 33/220			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum


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Muck Management Plan (Dumping Site-20) at RD 34/700 to 34/720			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material / Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum


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Muck Management Plan (Dumping Site-21) at RD 35/610 to 35/630			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material / Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum

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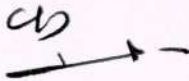

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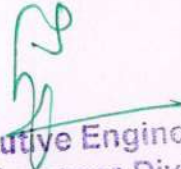
Muck Management Plan (Dumping Site)22) at RD 36/420 to 36/440			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	2500.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	375.00	
2	Net Balance Quantity of Debris/Muck (1-2)	2125.00	
3	Quantity available on site with swell factor @ 40% of (A)	850.00	Cum (B)
	Total Muck with Swell factor	2975.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	148.75	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	446.25	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	1190.00	
	Total :- (i)+(ii)+(iii)	1785.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	1190.00	Cum
	Total Muck to be dumped in project site	1190.00	Cum
	Capacity of Muck Dumping Site	3000	Cum
	Balance Muck after dumping	0.00	Cum

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Muck Management Plan (Dumping Site-23) at RD 38/100 to 38/120			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum


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Muck Management Plan (Dumping Site-24) at RD 39/400 to 39/420			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/ Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum

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I Muck Management Plan (Dumping Site-25) at RD 41/200 to 41/220			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
o 1	Total Quantity of Muck being produced	23000.00	Cum (A)
q	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
1 2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
iv 3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
ti	Total Muck with Swell factor	27370.00	Cum (C)
tu	Material /Muck to be used in Project:-		
o(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
l(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
d	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
n	Total Muck to be dumped in project site	10948.00	Cum
k	Capacity of Muck Dumping Site	11500	Cum
al	Balance Muck after dumping	0.00	Cum

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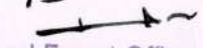
Executive Engineer,
Sundernagar Division
HPPWD. Sundernagar


Muck Management Plan (Dumping Site-26) at RD 41/800 to 41/820			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum

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 Sundernagar (H.P.) - 175018


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 HPPWD, Sundernagar


Muck Management Plan (Dumping Site-27) at RD 42/550 to 42/570			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum

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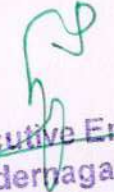
Muck Management Plan (Dumping Site-28) at RD 43/930 to 43/950			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum


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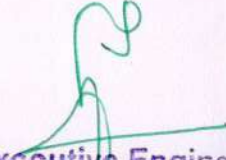
Muck Management Plan (Dumping Site-29) at RD 44/860 to 44/880			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum

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Muck Management Plan (Dumping Site-30) at RD 45/900 to 45/920			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23000.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3450.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19550.00	
3	Quantity available on site with swell factor @ 40% of (A)	7820.00	Cum (B)
	Total Muck with Swell factor	27370.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1368.50	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4105.50	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	10948.00	
	Total :- (i)+(ii)+(iii)	16422.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	10948.00	Cum
	Total Muck to be dumped in project site	10948.00	Cum
	Capacity of Muck Dumping Site	11500	Cum
	Balance Muck after dumping	0.00	Cum


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Muck Management Plan (Dumping Site-31) at RD 47/260 to 47/280			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23500.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3525.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19975.00	
3	Quantity available on site with swell factor @ 40% of (A)	7990.00	Cum (B)
	Total Muck with Swell factor	27965.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1398.25	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4194.75	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	11186.00	
	Total :- (i)+(ii)+(iii)	16779.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	11186.00	Cum
	Total Muck to be dumped in project site	11186.00	Cum
	Capacity of Muck Dumping Site	12500	Cum
	Balance Muck after dumping	0.00	Cum

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Muck Management Plan (Dumping Site 32) at RD 48/560 to 48/580			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced n	23500.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3525.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19975.00	
3	Quantity available on site with swell factor @ 40% of (A) n	7990.00	Cum (B)
	Total Muck with Swell factor	27965.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1398.25	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4194.75	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	11186.00	
	Total :- (i)+(ii)+(iii)	16779.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	11186.00	Cum
	Total Muck to be dumped in project site u	11186.00	Cum
	Capacity of Muck Dumping Site u	12500	Cum
	Balance Muck after dumping u	0.00	Cum

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Muck Management Plan (Dumping Site-33) at RD 49/520 to 49/540			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23500.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3525.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19975.00	
3	Quantity available on site with swell factor @ 40% of (A)	7990.00	Cum (B)
	Total Muck with Swell factor	27965.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1398.25	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4194.75	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	11186.00	
	Total :- (i)+(ii)+(iii)	16779.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	11186.00	Cum
	Total Muck to be dumped in project site	11186.00	Cum
	Capacity of Muck Dumping Site	12500	Cum
	Balance Muck after dumping	0.00	Cum

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Muck Management Plan (Dumping Site-34) at RD 52/600 to 52/620			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23500.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3525.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19975.00	
3	Quantity available on site with swell factor @ 40% of (A)	7990.00	Cum (B)
	Total Muck with Swell factor	27965.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1398.25	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4194.75	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	11186.00	
	Total :- (i)+(ii)+(iii)	16779.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	11186.00	Cum
	Total Muck to be dumped in project site	11186.00	Cum
	Capacity of Muck Dumping Site	12500	Cum
	Balance Muck after dumping	0.00	Cum

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 Sundernagar (H.P.) - 175018

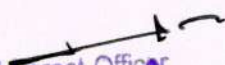
Executive Engineer,
 Sundernagar Division
 HPPWD. Sundernagar

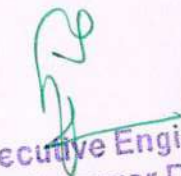
1 Muck Management Plan (Dumping Site-35) at RD 54/000 to 54/020			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23500.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3525.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19975.00	
3	Quantity available on site with swell factor @ 40% of (A)	7990.00	Cum (B)
	Total Muck with Swell factor	27965.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1398.25	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4194.75	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	11186.00	
	Total :- (i)+(ii)+(iii)	16779.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	11186.00	Cum
	Total Muck to be dumped in project site	11186.00	Cum
	Capacity of Muck Dumping Site	12500	Cum
	Balance Muck after dumping	0.00	Cum

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Muck Management Plan (Dumping Site-36) at RD 55/000 to 55/020			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23500.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3525.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19975.00	
3	Quantity available on site with swell factor @ 40% of (A)	7990.00	Cum (B)
	Total Muck with Swell factor	27965.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1398.25	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4194.75	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	11186.00	
	Total :- (i)+(ii)+(iii)	16779.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	11186.00	Cum
	Total Muck to be dumped in project site	11186.00	Cum
	Capacity of Muck Dumping Site	12500	Cum
	Balance Muck after dumping	0.00	Cum

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Muck Management Plan (Dumping Site-37) at RD 57/000 to 57/020

Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.

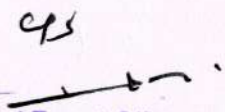
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	3500.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	525.00	
2	Net Balance Quantity of Debris/Muck (1-2)	2975.00	
3	Quantity available on site with swell factor @ 40% of (A)	1190.00	Cum (B)
	Total Muck with Swell factor	4165.00	Cum (C)
	Material / Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	208.25	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	624.75	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	1666.00	
	Total :- (i)+(ii)+(iii)	2499.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	1666.00	Cum
	Total Muck to be dumped in project site	1666.00	Cum
	Capacity of Muck Dumping Site	3000	Cum
	Balance Muck after dumping	0.00	Cum


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Sundernagar (H.P.) - 175018

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Muck Management Plan (Dumping Site-38) at RD 59/100 to 59/120			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23500.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3525.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19975.00	
3	Quantity available on site with swell factor @ 40% of (A)	7990.00	Cum (B)
	Total Muck with Swell factor	27965.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1398.25	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4194.75	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	11186.00	
	Total :- (i)+(ii)+(iii)	16779.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	11186.00	Cum
	Total Muck to be dumped in project site	11186.00	Cum
	Capacity of Muck Dumping Site	12500	Cum
	Balance Muck after dumping	0.00	Cum


 Divisional Forest Officer
 Suket Forest Division
 Sundernagar (H.P.) - 175018


 Executive Engineer,
 Sundernagar Division
 HPPWD, Sundernagar

Muck Management Plan (Dumping Site-39) at RD 60/000 to 60/020			
Project Name:- Construction of Slapper to Tattapani road (Km 8/500 to 61/600) Distt. Mandi H.P.			
Sr.	Description	Quantity	
1	Total Quantity of Muck being produced	23500.00	Cum (A)
	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project. @ 15%	3525.00	
2	Net Balance Quantity of Debris/Muck (1-2)	19975.00	
3	Quantity available on site with swell factor @ 40% of (A)	7990.00	Cum (B)
	Total Muck with Swell factor	27965.00	Cum (C)
	Material /Muck to be used in Project:-		
(i)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 5% of (C)	1398.25	
(ii)	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall in filling work etc. @15% of (C)	4194.75	
(iii)	iii) Less for material/Muck used in filling behind R/Wall, B/Wall and filling in plinth work @ 40% (C)	11186.00	
	Total :- (i)+(ii)+(iii)	16779.00	Cum (D)
	Net material/Muck to dump in dumping site (C-D) in Cum	11186.00	Cum
	Total Muck to be dumped in project site	11186.00	Cum
	Capacity of Muck Dumping Site	12500	Cum
	Balance Muck after dumping	0.00	Cum

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Divisional Forest Officer
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Executive Engineer,
Sundernagar Division
HPPWD. Sundernagar