

Full Title of Project: Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:

Proposal No. **FP/HP/HYD/150023/2021**

Date of Proposal:

Check List No 28

Dumping Sites and Reclamation Plans

There is muck Generation, hence muck dumping sites are required. Detailed Reclamation plan along with Muck Dumping sites & their cross section has been attached.

Authorized Signatory

M/S SERAJ HYDRO POWER DEVELOPERS


Divisional Forest Officer
Kullu Forest Division Kullu

**Detail of Muck Dumping sites in respect of Sajla 2.00 MW SHEP in Forest Range
Nagar, Kullu Forest Division of Distt. Kullu (H.P.)**


Sr. No.	Name of Dumping Site	Location	Length in m	Width in m	Area in sqm	Height in m	Capacity of Dumping in cum	Remarks
1	Muck Dumping Site -1	Near Weir, D-Tank & Penstock	20	10	200	3	600.00	Forest Land
2	Muck Dumping Site -2	Near Penstock	20	8	160	3	480.00	Forest Land
3	Muck Dumping Site -3	Near Power House	30	10	300	4	1200.00	Forest Land
4	Muck Dumping Site -4	Near Approach Road to PH	30	5	150	4	600.00	Forest Land
5	Muck Dumping Site -5	Near Approach Road to PH	25	10	250	4	1000.00	Forest Land
	Total				1060.00		3880.00	

Date

Place - Kullu

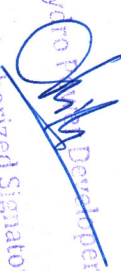
Authorized Signatory


 Authorized Signatory

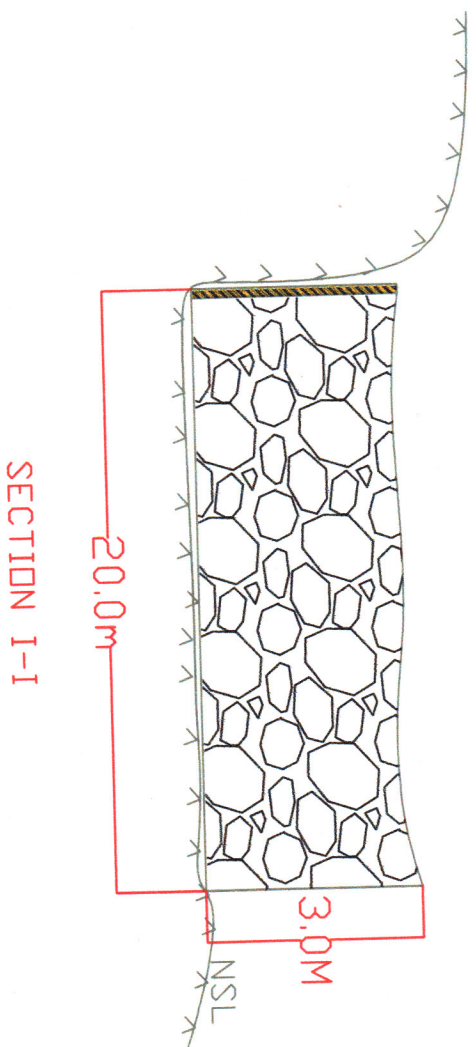
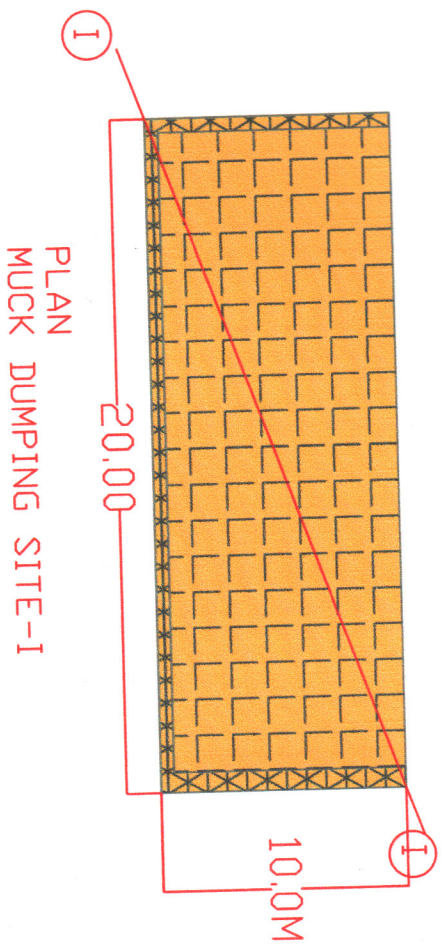

 Divisional Forest Officer
 Kullu Forest Division Kullu
 Kullu Forest Division, Kullu (H.P.)

RECLAMATION MUCK GENERATED PLAN FOR SALLA SHEP (2.00 MW)


Sr. No.	Name of Component from Where Muck is to be Produced	Provided Size of Land In sqm	Actual Size of Component in sqm	Total Qty. Of Muck is Produced in cum	Factor of increase in volume after excavation	Total Qty. of Muck to be Dumped on the basis of increased Qty in cum	Qty of Muck to be utilised (in cum)	Total Qty of Muck Remaining after Utilisation	Remarks
1	Diversion Weir	15 x 10	15 x 5	75.00	45%	108.75	38.06	70.69	Out of total muck generated, about 35% shall be used in construction of crates, protection of diversion weir, Water Conductory System, Gravel Taper, Protectionof desilting tank, construction of D Tank cum Forebay rest of the muck including swell factor (45%) shall be dumped in muck dumping sites 1
2	Gravel Tapper	5 x 3	5 x 2	15.00	45%	21.75	7.61	14.14	
3	Water Conductor System	5 x 3	5 x 0.8	2.40	45%	3.48	1.22	2.26	
4	D-Tank Cum Forebay	30 x 5	30 x 3	270.00	45%	391.50	137.03	254.48	
5	Scour Pipe	5 x 1	5 x 0.6	6.00	45%	8.70	4.35	4.35	50% of the , saddle supports and retaining walls to support penstock & muck generated from the Power House, Road and Transmission Line and Switchyard Shall Be used for levelling/filling of Power house and Switchyard area. Balance Muck including Swell Factor (45%) shall be dumped in site-2 to 5. 35% Muck Generated from Tail race shall be used for Protection work and Construction work of Tail Race. Balance Muck including Swell Factor (45%) shall be dumped in Muck Dumping site -5.
6	Penstock	2070 x 2	2070 x 0.6	422.28	45%	612.31	306.15	306.15	
7	Power House Cum Switch	40 x 20	35 x 15	1050.00	45%	1522.50	532.88	989.63	
8	Rail Race	25 x 2	25 x 1	37.50	45%	54.38	27.19	27.19	
9	Interconnection Point	10 x 8	8 x 5	120.00	45%	174.00	87.00	87.00	
10	Approch Road to PH	425 x 3	425 x 3	1912.50	45%	2773.13	1386.56	1386.56	
11	Transmission Line	426 x 0.6	426 x 0.6	255.60	45%	370.62	185.31	185.31	
20	Total			1998.18		2897.36	1141.48	1755.88	
Total qty. of Muck is to be produced in cum =				1998.18		cum			
Total qty. of muck to be dumped on the basis of increased qty in cum =				2897.36		cum			
Qty of muck is to be utilised (in cum) =				1141.48		cum			
Total capacity of muck to be dumped =				1755.88		cum		TRUE	1755.88<3880

M/s Seral Hydro Power Developers

 Authorized Signatory

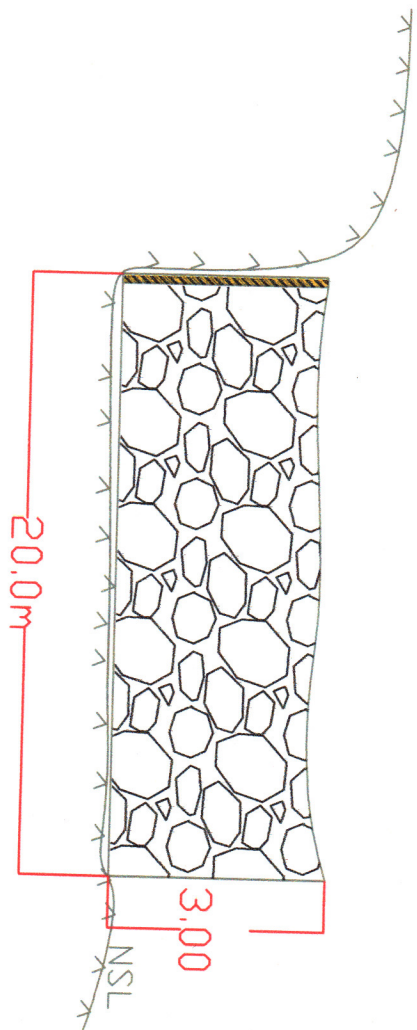
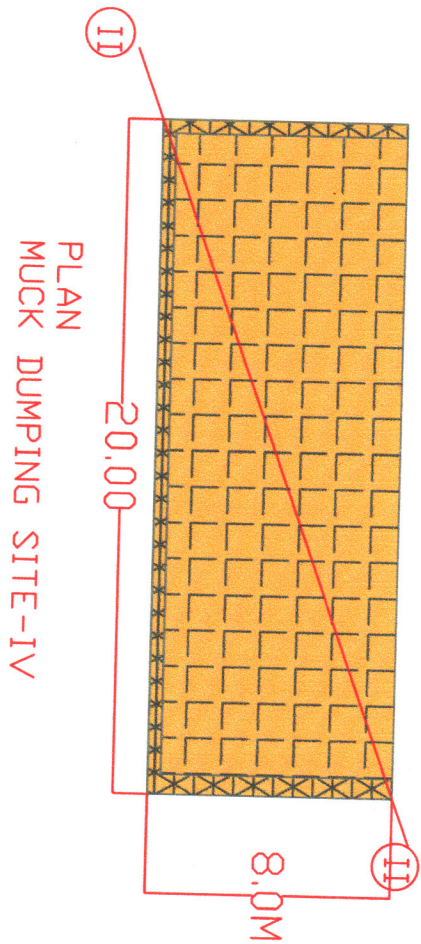

 Divisional Forest Officer
 Forest Division Kullu



AREA-20.0MX10.0M
=200M ²
H-3.0M
QTY=200.0M ² X3.00M
=600M ³
DETAIL OF MUCK DUMPING SITE-I NEAR DTANK CUM FOREBAY
SAJALA SHEP 2.00MW

M/S Seral Hydrotechnics

 Authorized Signatory


 Divisional Forest Officer
 Kullu Forest Division Kullu



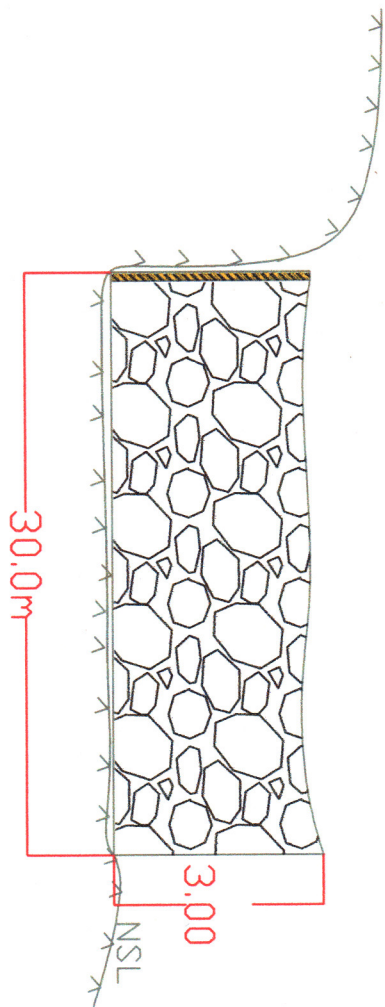
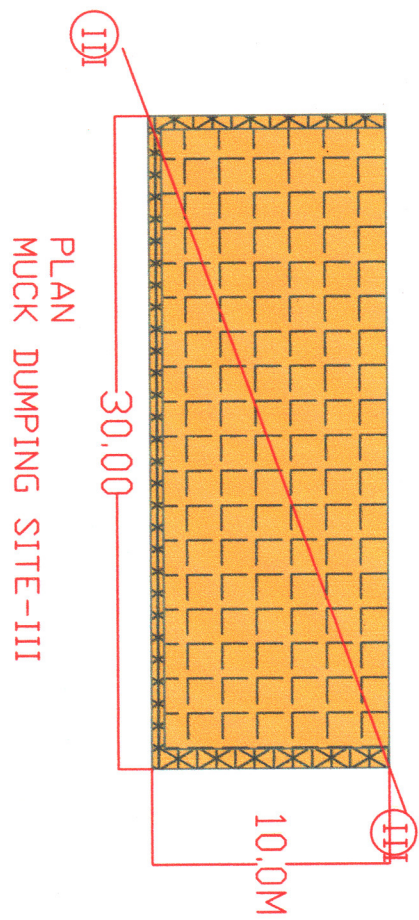
AREA-20.0MX8.0M
=160M²
H-3.00M
QTY=160.0M²X3.00M
=480M³

DETAIL OF MUCK
DUMPING SITE-II NEAR
PENSTOCK
SAJALA SHEP 2.00MW

M/s Seraj Hydropower Developers

Authorized Signatory

Divisional Forest Officer
Kullu Forest Division Kullu



M/s Seraj Hydropower Development

[Signature]

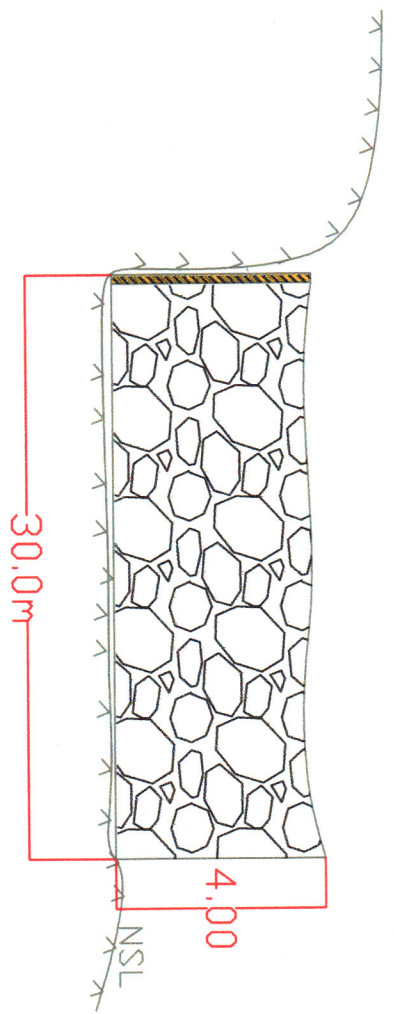
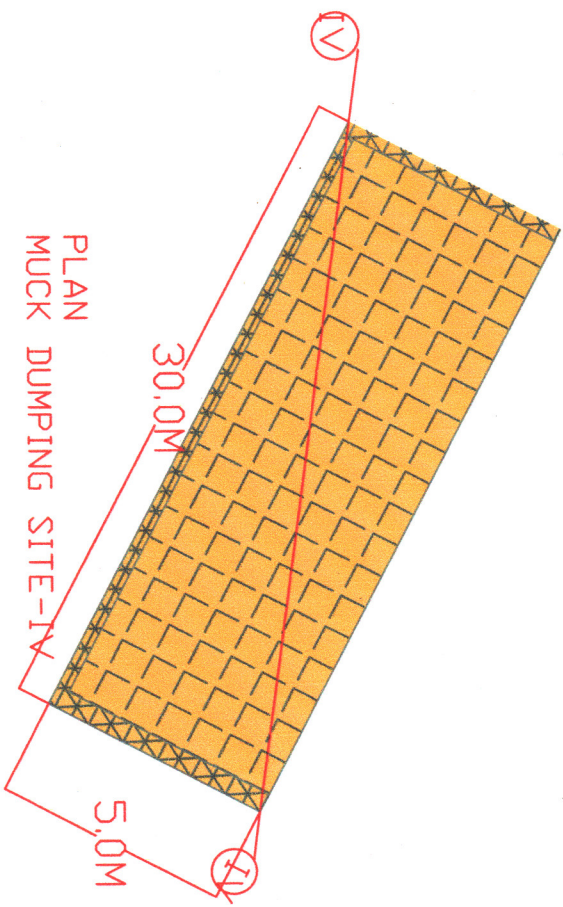
Authorized Signatory

AREA-30.0MX10.0M
=300M²
H-4.00M
QTY=300.0M²X4.00M
=1200M³

DETAIL OF MUCK
DUMPING SITE-III
POWERHOUSE SITE
SAJALA SHEP 2.00MW

[Signature]

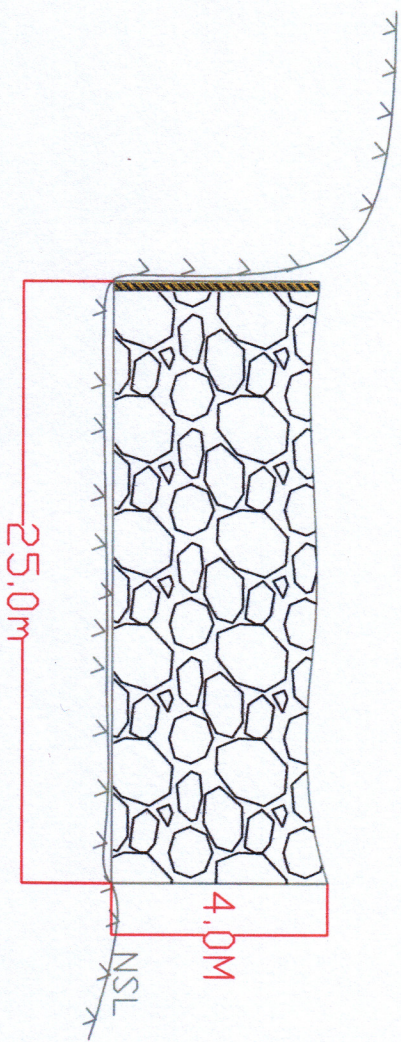
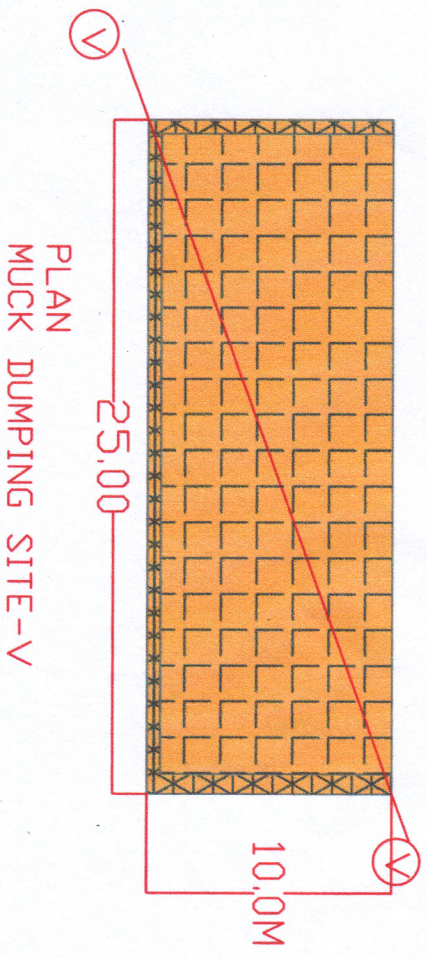
Divisional Forest Officer
Kulu Forest Division Kulu



AREA-30.0MX5.0M =150M ² H-4.0M QTY=150.0M ² X4.00M =600M ³
DETAIL OF MUCK DUMPING SITEIV NEAR APPRDACH ROAD SAJALA SHEP 2.00MW

M/Seraj Hydro
Authorized Signatory

Divisional Forest Officer
Katha Forest Division Kathu



M/s Seraj Hydro Power Developers
Authorized Signatory

AREA-25.0MX10.0M =250M ² H-4.0M QTY=250.0M ² X4.00M =1000M ³
DETAIL OF MUCK DUMPING SITE-V IN ROAD SITE SAJALA SHEP 2.00MW

Divisional Forest Officer
Forest Division Kulu