

MUCK DISPOSAL CERTIFICATE

This is to certify that nine (9) Muck Disposal Site(s) are selected by the State Forest & Revenue Department of Sikkim with a total area of 28.94 ha for dumping the surplus muck proposed to be generated for the "WIDENING OF EXISTING ROAD (NH 310A) TO NHDL SPECIFICATION WITH PAVED SHOULDER FROM YUMTHANG OF DESIGN KM 52+808 TO YUME SAMGDANG OF DESIGN KM 84+160 IN THE STATE OF SIKKIM UNDER PROJECT SWASTIK OF BRO". The entire stretch falls under forest land. All the Muck Disposal Site(s) are selected in Forest Land and therefore the same has been incorporated in the Forest Clearance proposal. The diversion point GPS co-ordinates are given below and further detail plan is given in the Muck Disposal Plan Report.

Muck Disposal Site		
Site no. 01		
Area	2.0203 ha	
Perimeter	732.765 m	
Altitude	3635 m	
Vegetation	Tree	Nil
	Shrubs	Nil
	Herbs	Primula, Chushing Hambu
GPS location no.	Longitude	Latitude
A	88° 42' 5.55" E	27° 48' 45.54" N
B	88° 42' 6.88" E	27° 48' 43.94" N
C	88° 42' 9.01" E	27° 48' 39.14" N
D	88° 42' 8.68" E	27° 48' 38.03" N
E	88° 42' 8.95" E	27° 48' 36.94" N
F	88° 42' 9.51" E	27° 48' 36.13" N
G	88° 42' 7.76" E	27° 48' 35.44" N
H	88° 42' 6.36" E	27° 48' 36.65" N
I	88° 42' 5.62" E	27° 48' 37.75" N
J	88° 42' 5.59" E	27° 48' 38.96" N
K	88° 42' 5.77" E	27° 48' 40.3" N
Muck Disposal Site		
Site no. 02		
Area	1.0018 ha	
Perimeter	400.6026 m	
Altitude	3868 m	
Vegetation	Tree	Silver fir poles 8 nos
	Shrubs	Rhododendron campanulatum, R. nivale, R. setosum, Salix sps
	Herbs	Primula, Chushing Hambu, Gaultheria sps.
GPS location no.	Longitude	Latitude
A	88° 41' 34.9" E	27° 50' 41.1" N

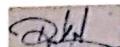
(Mr. Som Prakash Mitra)

Divisional Forest Officer
 Mangan Division
 Territorial Division Mangan
 Forest & Environment Department

RANGE OFFICER IN-CHARGE
 LACHUNG (T) RANGE
 FOREST AND ENV. DEPTT.
 GOVT. OF SIKKIM

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B	88° 41' 36.29" E	27° 50' 41.07" N
C	88° 41' 36.71" E	27° 50' 40.4" N
D	88° 41' 38.04" E	27° 50' 40.06" N
E	88° 41' 38.63" E	27° 50' 39.6" N
F	88° 41' 39.62" E	27° 50' 38.43" N
G	88° 41' 39.11" E	27° 50' 37.79" N
H	88° 41' 38.53" E	27° 50' 37.44" N
I	88° 41' 37.24" E	27° 50' 37.12" N
J	88° 41' 35.6" E	27° 50' 38.34" N
K	88° 41' 35.46" E	27° 50' 38.65" N
L	88° 41' 35.66" E	27° 50' 40.38" N
Muck Disposal Site		
Site no. 03		
Area	0.9937 ha	
Perimeter	551.1077 m	
Altitude	3975 m	
Vegetation	Tree	Saur poles 8 nos
	Shrubs	Rhododendron campanulatum, R. nivale, R. setosum, Salix sps
	Herbs	Primula, Chushing Hambu, Gaultheria sps., Rumex sps.
GPS location no.	Longitude	Latitude
A	88°41'36.04" E	27°51'04.56" N
B	88°41'37.17" E	27°51'05.54" N
C	88°41'38.02" E	27°51'05.82" N
D	88°41'38.04" E	27°51'05.05" N
E	88°41'38.81" E	27°51'03.09" N
F	88°41'39.11" E	27°51'03.09" N
G	88°41'39.41" E	27°51'01.34" N
H	88°41'37.97" E	27°50'59.02" N
I	88°41'36.93" E	27°50'58.93" N
J	88°41'36.12" E	27°50'59.51" N
K	88°41'37.98" E	27°51'01.39" N
L	88°41'37.46" E	27°51'03.07" N
Muck Disposal Site		
Site no. 04		
Area	2.0279 ha	
Perimeter	614.8997 m	
Altitude	4074 m	

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Vegetation	Tree	Saur fir poles 7 nos
	Shrubs	Rhododendron campanulatum, R. nivale, R. setosum, R. anthopogon, Juniper sps. Salix sps
	Herbs	Primula, Chushing Hambu, Gaultheria sps., Rumex sps.
GPS location no.	Longitude	Latitude
A	88° 41' 39.43" E	27° 51' 31.72" N
B	88° 41' 41.09" E	27° 51' 32.04" N
C	88° 41' 41.24" E	27° 51' 30.32" N
D	88° 41' 40.83" E	27° 51' 28.83" N
E	88° 41' 40.79" E	27° 51' 26.91" N
F	88° 41' 40.21" E	27° 51' 24.74" N
G	88° 41' 37.96" E	27° 51' 24.29" N
H	88° 41' 37.43" E	27° 51' 25.33" N
I	88° 41' 37.01" E	27° 51' 26.62" N
J	88° 41' 37.37" E	27° 51' 27.65" N
K	88° 41' 37.25" E	27° 51' 28.18" N
L	88° 41' 38.17" E	27° 51' 30.11" N
Muck Disposal Site		
Site no. 05		
Area	2.0187 ha	
Perimeter	563.3169 m	
Altitude	4188 m	
Vegetation	Tree	Nil
	Shrubs	Rhododendron aeruginosum, R. anthopogon, R. setosum, Salix sps, Siris
	Herbs	Primula, Chushing Hambu, Gaultheria sps., Rumex sps., Kutki, Jatamansi, Thotney
GPS location no.	Longitude	Latitude
A	88° 41' 37.02" E	27° 51' 51.61" N
B	88° 41' 40.01" E	27° 51' 52.61" N
C	88° 41' 40.18" E	27° 51' 52.01" N
D	88° 41' 40.58" E	27° 51' 51.59" N
E	88° 41' 40.93" E	27° 51' 50.82" N
F	88° 41' 41.62" E	27° 51' 48.86" N
G	88° 41' 42.25" E	27° 51' 48.36" N

Muck Disposal Certificate

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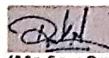
eptisa
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H	88° 41' 42.03" E	27° 51' 47.04" N
I	88° 41' 39.85" E	27° 51' 46.62" N
J	88° 41' 37.06" E	27° 51' 47.63" N
K	88° 41' 37.53" E	27° 51' 48.48" N
L	88° 41' 37.44" E	27° 51' 48.09" N
Muck Disposal Site		
		Site no. 06
Area	5.0196 ha	
Perimeter	1040.2187 m	
Altitude	4427 m	
Vegetation	Tree	Nil
	Shrubs	Rhododendron anthopogon, R. aeruginosum, R. nivale, R. setosum, Salix sps.
	Herbs	Primula, Chushing Hambu, Gaultheria sps., Blue poppy, Jatamansi, Kutki, Thotney
GPS location no.	Longitude	Latitude
A	88° 42' 04.60" E	27° 53' 03.59" N
B	88° 42' 06.28" E	27° 53' 02.81" N
C	88° 42' 06.93" E	27° 53' 02.01" N
D	88° 42' 06.83" E	27° 53' 00.31" N
E	88° 42' 05.79" E	27° 52' 58.64" N
F	88° 42' 03.09" E	27° 52' 54.40" N
G	88° 42' 01.97" E	27° 52' 52.31" N
H	88° 42' 00.03" E	27° 52' 50.62" N
I	88° 41' 56.62" E	27° 52' 53.95" N
J	88° 41' 57.53" E	27° 52' 54.64" N
K	88° 41' 59.28" E	27° 52' 56.37" N
L	88° 42' 01.34" E	27° 52' 58.36" N
Muck Disposal Site		
		Site no. 07
Area	5.0830 ha	
Perimeter	1157.2079 m	
Altitude	4518 m	
Vegetation	Tree	Nil
	Shrubs	Rhododendron anthopogon, R. aeruginosum, R. nivale, R. setosum, Salix sps.

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GPS location no.	Longitude	Latitude
A	88° 42' 23.20" E	27° 53' 58.58" N
B	88° 42' 23.91" E	27° 53' 58.61" N
C	88° 42' 25.21" E	27° 53' 56.98" N
D	88° 42' 25.89" E	27° 53' 56.19" N
E	88° 42' 27.35" E	27° 53' 55.01" N
F	88° 42' 26.55" E	27° 53' 53.05" N
G	88° 42' 25.67" E	27° 53' 50.45" N
H	88° 42' 27.21" E	27° 53' 44.42" N
I	88° 42' 25.17" E	27° 53' 42.83" N
J	88° 42' 22.45" E	27° 53' 47.20" N
K	88° 42' 21.35" E	27° 53' 49.80" N
L	88° 42' 21.47" E	27° 53' 53.21" N
Muck Disposal Site		
		Site no. 08
Area	3.4954 ha	
Perimeter	715.2094 m	
Altitude	4575 m	
Vegetation	Tree	Nil
	Shrubs	Rhododendron anthopogon, R. nivale, R. setosum, Salix sps.
	Herbs	Primula, Chushing Hambu, Gaultheria sps., Blue poppy, Jatamansi, Kutki, Gentiana omata, Cossipore fastigiata, Rheum nobile
GPS location no.	Longitude	Latitude
A	88° 42' 28.45" E	27° 54' 29.50" N
B	88° 42' 29.90" E	27° 54' 29.54" N
C	88° 42' 30.52" E	27° 54' 29.31" N
D	88° 42' 31.47" E	27° 54' 27.91" N
E	88° 42' 32.08" E	27° 54' 26.26" N
F	88° 42' 31.60" E	27° 54' 23.91" N
G	88° 42' 31.95" E	27° 54' 22.15" N
H	88° 42' 31.15" E	27° 54' 21.06" N
I	88° 42' 28.63" E	27° 54' 21.34" N
J	88° 42' 25.95" E	27° 54' 24.40" N
K	88° 42' 25.52" E	27° 54' 25.61" N
L	88° 42' 26.78" E	27° 54' 28.12" N

Muck Disposal Certificate

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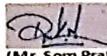
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Muck Disposal Site		
		Site no. 09
Area	7.2841 ha	
Perimeter	1050.8415 m	
Altitude	4722 m	
Vegetation	Tree	Nil
	Shrubs	Rhododendron anthopogon, R. nivale, R. setosum
	Herbs	Primula, Chushing Hambu, Gaultheria sps., Blue poppy, Jatamansi, Kutki, Thotney, Gentiana ornata, Cossipore fastigiata, Rheum nobile
GPS location no.	Longitude	Latitude
A	88° 43' 58.50" E	27° 56' 04.44" N
B	88° 44' 04.80" E	27° 56' 04.22" N
C	88° 44' 07.34" E	27° 56' 01.96" N
D	88° 44' 07.84" E	27° 56' 01.00" N
E	88° 44' 06.86" E	27° 55' 59.60" N
F	88° 44' 05.04" E	27° 55' 58.21" N
G	88° 44' 03.35" E	27° 55' 56.21" N
H	88° 43' 59.17" E	27° 55' 53.44" N
I	88° 43' 56.70" E	27° 55' 57.70" N
J	88° 43' 55.62" E	27° 56' 00.52" N
K	88° 43' 55.88" E	27° 56' 01.72" N
L	88° 43' 57.99" E	27° 56' 03.44" N

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