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**GOVERNMENT OF SIKKIM
POWER DEPARTMENT**

No. 127/ACE(T)/P/605/2022-23/609

Dated 2/2/2022

MUCK DISPOSAL CERTIFICATE

Undertaking is hereby given on behalf of Power Department, that the muck obtained from cutting works during construction /laying of **"220 KV D/C Singhik-Chungthang Transmission Line"** shall be utilized in backfilling of excavated foundation pits/disposed off in the diverted area for the subject transmission line only without causing any damages to the surrounding areas.

For & on behalf
Power Department
Chief Engineer-cum-SNO (IPD)
Power Department
Government of Sikkim

Muck Disposal Plan

Sl.NO	Components	Compliance
1	Quantity of muck generated for one tower location.	95.16 cum
2	Quantity of muck to be utilized in the project activities.	100%
3	Balance quantity of muck required to be transported to dumping site.	NA
4	Carriage of muck from muck generation to dumping site.	NA
5	Development of dumping site- construction of retaining walls and other structures as per requirement of the site.	NA
6	Rehabilitation of dumping site like leveling, planting of grass, shrubs and tree species.	NA


02/08/22
Chief Engineer-cum-SNO (IPDS),
Power Department
Government of Sikkim

Muck Disposal Plan

1. Muck generated from tower footing excavation (one leg):

$$\begin{array}{rcl} 2.38 \text{ m} \times 2.38 \text{ m} \times 3.0 \text{ m} & & = 16.993 \text{ cum} \\ 40\% \text{ for swell factor} & & = 6.79 \text{ cum} \\ \text{Total} & & = 23.79 \text{ cum} \end{array}$$

2. Total muck generated from four (04) legs of one tower footing

$$\begin{array}{rcl} & & = 4 \times 23.79 \text{ cum} \\ & & = \mathbf{95.16 \text{ cum}} \end{array}$$

3. Total muck generated from excavation used in backfilling of tower foundation in compacted form:

$$= 100\%$$

Therefore, there is no requirement of transport and dump excess muck to different muck disposal site, the muck generated from the excavation of tower footing shall be utilized in backfilling the foundation of the same tower.

Note: Quantity of muck has been shown for only one tower location with four legs, same will be applicable for rest of the tower footings.


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