

NAME OF WORK:- LILO of one CKT of 400 kV D/C Transmission Lahal-Rejra Line with TWIN MOOSE conductor from Tower No T-8 to Kutler- HEP (JSW) in District Chamba			
TOWER WISE DETAIL OF EARTH CUTTING AND FILLING			
S.No.	Description	Cutting (cum)	Filling (cum)
1	Tower No.1		
	Bench cutting/ filling + Breast wall cutting	550.25	87.72
	Excavation of retaining wall foundation	103.07	
	Backfilling behind retaining walls		378.56
	Filling of tower pits after concreting.		58.6
	Total (i)	653.32	524.88
2	Tower No.2		
	Bench cutting/ filling + Breast wall cutting	197.75	229.28
	Excavation of retaining wall foundation	166.29	
	Backfilling behind retaining walls		344
	Filling of tower pits after concreting.		58.6
	Total(ii)	364.04	631.88
3	Tower No.3		
	Bench cutting/ filling + Breast wall cutting	445	280
	Excavation of retaining wall foundation	270.21	
	Backfilling behind retaining walls		408.495
	Filling of tower pits after concreting.		58.6
	Total(iii)	715.21	747.095
4	Tower No.4		
	Bench cutting/ filling + Breast wall cutting	861	140
	Excavation of retaining wall foundation	272.31	
	Backfilling behind retaining walls		410
	Filling of tower pits after concreting.		58.6
	Total(iv)	1133.31	608.6
5	Tower No.5		
	Bench cutting/ filling + Breast wall cutting	446	421
	Excavation of retaining wall foundation	303.12	
	Backfilling behind retaining walls		558.95
	Filling of tower pits after concreting.		58.6
	Total(v)	749.12	1038.55
GRAND TOTAL (i+ii+iii+iv+v)		3615	3551.005

NOTE:-

1) Net surplus earth as per calculations = $3615 - 3551.005 = 64$ cum approx. i.e., avg. 12.8 cum/ per tower.

2) At most of tower locations, out of total earth cutting as computed above, 20 to 40 % of stone/ boulders other than soil likely to be found during excavation/ cutting which will be used in revetment work and as a filter media behind the revetment wall.

3) Since earth cutting & excavation filling is a combination of soil and stone/ boulders , but practically earth/ soil is required to be borrowed from other locations for maintaining the tower benches with earth filling.

4) In exceptional case, if stone/ boulders not found during cutting and excavation then plinth/ height of retaining walls to be increased for consuming the surplus earth.

HENCE, THERE WILL BE NO SURPLUS EARTH/ SOIL FOR DISPOSING OFF AT EACH TOWER LOCATION.

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