Full Title of the Project: - Construction of 220/66kv Sub-Station Nadukhar & 220kv LILO Tower for LILO of 220kv Bhaba-Kunihar line.

File no: _____

Date of proposal: _____

CHECK LIST SERIAL NUMBER-

DETAILED RECLAMATION PLAN

For the onstruction of 220/66kv Sub-Station Nadukhar only 1.1333 Ha. of Forest land is required for construction of the Sub-Station and initial 66kV towers. Land is sloppy and steep and at certain points as such earth cutting and excavation is involved. The 220/66kv Sub-Station Nadukhar has been designed in such a manner that minimum area is proposed for diversion with moderate excavation/earth cutting. The excavated soil will be back filled and revetment work where required will be provided. No extra soil will be excavated or carried away. Detailed quantities worked out has been enclosed herewith. Therefore, no dumping space is required.

Date:- 20/02/2023

Place:- Totu (Shimla)

Sr. Executive Engineer,
Electrical System Division,
HPSEB Ltd, Totu-Shimla-11.

Countersigned by

Divisional Forest Officer
Shimla Forest Division
SHIMLA

Divisional Forest Officer,
Khalini Forest Division,
District Shimla (H.P)

Calculation for Quantity of Earth Cutting				
Reduced Distance	Cross-Sectional Area (Sqm.)	Average Area (Sqm.)	Length (Mtr.)	Quantity (Cum.)
0.00	9.301			
10.00	60.218	34.760	10.000	347.595
13.00	83.558	71.888	3.000	215.664
13.00	76.208			
20.00	69.489	72.849	7.000	509.940
30.00	102.963	86.226	10.000	862.260
40.00	131.429	117.196	10.000	1171.960
50.00	139.081	135.255	10.000	1352.550
60.00	126.585	132.833	10.000	1328.330
70.00	130.918	128.752	10.000	1287.515
80.00	111.562	121.240	10.000	1212.400
90.00	115.823	113.693	10.000	1136.925
97.00	123.771	119.797	7.000	838.579
100.00	123.965	123.868	3.000	371.604
102.75	89.341	106.653	2.750	293.296
110.00	60.967	75.154	7.250	544.867
120.00	3.870	32.419	10.000	324.185
			Total Quantity of Cutting	11797.670

Calculation for Quantity of Earth Filling				
Reduced Distance	Cross-Sectional Area (Sqm.)	Average Area (Sqm.)	Length (Mtr.)	Quantity (Cum.)
0.00	123.476			
10.00	58.606	91.041	10.000	910.410
13.00	59.953	59.280	3.000	177.839
13.00	32.353			
20.00	43.857	38.105	7.000	266.735
30.00	16.545	30.201	10.000	302.010
40.00	7.314	11.930	10.000	119.295
50.00	13.727	10.521	10.000	105.205
60.00	16.209	14.968	10.000	149.680
70.00	48.669	32.439	10.000	324.390
80.00	91.564	70.117	10.000	701.165
90.00	160.278	125.921	10.000	1259.210
97.00	181.741	171.010	7.000	1197.067
100.00	75.459	128.600	3.000	385.800
102.75	226.174	150.817	2.750	414.745
110.00	237.396	231.785	7.250	1680.441
120.00	255.300	246.348	10.000	2463.480
			Total Quantity of Filling	10457.472

Calculation for Quantity of Earth Filling along Longituidnal Section of Road			
At Reduced Distance	Longituidnal Sectional Area (Sqm.)	Length (Mtr.)	Quantity (Cum.)
16.50	58.414	7.000	408.898
100.00	143.015	5.750	822.336
		Total Quantity of Filling	1231.234

Sr. Executive Engineer,
Electrical System Division,
HPSEBL, Totu - Shimla -11.