| _ | | | | | | | AN FOR GHA | TOR TOP SMALL | Size of | Area of | Remaining | Capacity of | Quantity to | Remar |
|------------|--|-------------------------------------|---|---|--|--|--|-------------------------|------------------|----------------------------|-----------------------------|----------------------|-----------------|---|
| Sr. No. | Name of Component From Where Muck is To Be Produced | Actual Size Of Component In sqm. | Total Qty. Of Muck is to be Produced (in cum) | Factor of increase in volume after excavation (45%) | Total Qty. Of Muck is to be Dumped on The Basis Of increased Qty (in cum) | Qty.Of Muck TO Be utillsed (in cum) | Total Qty. Of Muck Remaining After Utilisation | Nme of Dumping place | Dumping Sites | Dumping place in sqm | Height of Muck Dumped | Muck To be Dumped | be Dumped | |
| 1 | Intake/Trench Weir | 30*19.83×595 | 595 | 595*45/100=267.75 | 862.75 | 301.96 | 560.78 | | | | | | 560.78 42.41 | Out of total Muck Generated About 35% Shall Be Used in Construction of Crates, Agreegates, Road A/Walls, 3/Walls, Rest Of The Muck Including Swell Factor (45%) sh be Dumped in muck Dumping si V |
| | Feeder Chennel | 18*2.50=45 16*2=32 | 30 | 45*45/100=20.25 30*45/100=13.50 | 65.25 43.5 | 15.22 | 28.27 | Dumping Site-IV | 40*22.35 | 894 | 2.4 | 2145.6 | 28.27 | |
| - | D-tank | 26x11.42=297 | 594 | 594*45/100=267.30 | 861.3 | 301.45 | 559.84 | | | | | | 559.84 | |
| 4 | | 250*2.50=625 | 1000 | 1000*45/100=450 | 1450 | 507.5 | 942.5 | 5 | | | | | 942.5 | |
| | HRT INLET | 491.60*2.50=1229 | 1966.4 | | 2851.28 | 1140.51 | 1710.76 | 5 | | | | | 1710.76 | About 40% Shall Be Used Construction of Crates, |
| | | | | | | | | | 40*22.35 | 894 | 2.7 | 2413.8 | 690.78 | Agreegates, Road R/Walls, B/Walls, Filling, Rest Of The Muck Including Swell Factor (45 shall be Dumped In muck Dumpi |
| | 6 Shurge Tank | 20x19.85=397 | 794 | 794*45/100=357.30 | 1151.3 | 460.52 | 690.7 | 8 | | 188 | | | 030 | Out of total Muck Generati |
| | 7 Penstock | 1398*2.84=3970 | 425 | 425*45/100=191.25 | 616.2 | 5 246.5 | 369.7 | | 40*29.75 | 1190 | 2.5 | 2975 | 369.75 | Construction of Crates, Agreegates, Protection works |
| | 8 Power House | 60*39.65=2379 | 2025 | 2025*45/100=911.25 | 2936.2 | 5 1174.5 | 1761.7 | | | | | | 1761.75 | |
| | | 30*19.83=595 | 950 | 950*45/100=427.50 | 1377. | .5 55: | 1 826. | 5 | | | | | 326.5 | (45%) shall be Dumped in mi |
| _ | 9 Switch Yard | 1231.50*4=4926 | 985 | | 1428.2 | | | Dumping Site-III | 11.30*10 | 113 | 2.45 | 276.85 | 270 | Out of total Muck Generati About 40% Shail Be Used |
| | | | | | | | | Dumping Site-II | 11*9 | 99 | 2.45 | 242.55 | 235 | Construction of Crates. |
| 10 | | | | | | | 3 856.9 | Dumping Site-I | 14.60*10 | 146 | 2.45 | 357.7 | 352 | Agreegates, Protection works R/Wails, B/Wails, Filling, Res The Muck Including Swell Fac (45%) shall be Dumped in mu Dumping sites I to III |
| _ | - | | 9409. | | 13643.6 | 53 5293.2 | 9 8350.2 | | | 333 | 6 2.49 | 8411 | 8350.29 | |

Chamba Hydro Ventures

Deputy Conservator of Forests Bharmour Forest Division Bharmour, Chamba (H.P.) DIVERSION OF 3.7463 HA.OF FORESTLAND FOR CONSTRUCTION OF GHATOR TOP SMALL HYDRO PROJECT 4.98MW IN TEHSIL BHARMOUR, DISTRICT CHAMBA (H.P)

FILE NO ..

: FP/HP/HYD/156608/2022

DATE OF PROOSAL



COST ESTIMATION OF DUMPING SITES & PLANTATION **GHATOR TOP (4.98MW) SHEP**

| SR. NO. | DESCRIPTION | UNIT | QTY. | RATE (IN Rs.) | AMOUNT (Rs |
|-----------------------|--|--------|---------|------------------|------------|
| 1 | Cost of Surveying and Investigation | Lumsum | 1 | 25000 | 25,000 |
| 2 | Cost of Carrying of muck to the dumping site and properly stacking. | Cum | 8350.29 | 50 | 5,42,769 |
| 3 | Earth work for the excavation of Gabion wall i.e trenches of different sizes with proper depth, removal of bushes and stumps, shoring and bracing etc. | Cum | 245 | 450 | 1,10,250 |
|) ₄ | Cost of crate wire of 4mm dia with carriage upto site. | Kg | 1563 | 83 | 1,32,855 |
| 5 | Providing RR Massionary and Stone Filled Gabion Wire Crates for protection Work. | Cum | 423 | 750 | 3,17,250 |
| 6 | Plantation of 480 plants @ Rs 35/- per plant. | Nos | 480 | 35 | 16,800 |
| 7 | Digging of pit for plantation. | Nos | 480 | 55 | 26,400 |
| 8 | Cost of Barbed wire Fencing for protection of Plants @ Rs. 145/- per plant with carriage and labour | kg | 480 | 145 | 69,600 |
| 9 | Salary for Gardener (1) for 4 years (48 Months) @ Rs.8800/- per month. | Months | 48 | 8800 | 4,22,400 |
| 10 | 2 Nos. Beldar for protection of plantation for 2 years @ Rs.350/- per day. | Year | 2 | 2,55,500 | 5,11,000 |
| 11 | Reclamation and restoration. | Lumsum | 1 | 1,50000 | 1,50,000 |
| 12 | Landscaping and Beautification. | Lumsum | 1 | 1,60000 | 1,60,000 |
| 13 | Carriage of soil from road site | Cum | 100 | 500 | 50,000 |
| -14 | Collection of Grass seed | Kg | 100 | 600 | 60,000 |
| 15 | Broadcasting of grass seed plants | Nos. | 100 | 400 | 40,000 |
| | | | | Total | 26,34,324 |

Place: Bharmour

Dated:

For Chamba Hydro Venture

Authorised Signatory

rator of Forests Bharmour Forest Division Bharmour, Chamba (H.P.)



(36)

"ABSTRACT OF COST"

Name of work :- Construction of Ghator Top SHEP (4.98MW) in Tehsil Bharmour Distt. Chamba being executing by M/s Chamba Hydro Ventures .

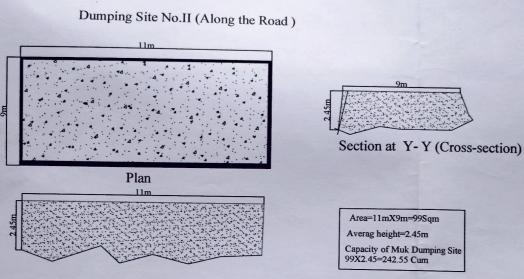
(Sub Head :- CONSTRUCTION OF WIRE CRATES TO THE DUMPING SITES)

| S.NO | Item | Qty. | Rate | Unit | Amount |
|------|---|------|------|-----------------------|-------------|
| 1 | Earthwork in excavation for structure as per drawing and technical specifications clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto a lead of 50m, dressing of sides and bottom and backfilling in trenches with excavation suitable materials ordinary soil upto standard depth. | 245 | 450 | Per cubic Metre | 1,10,250 |
| 2 | RR Massionery and laying of boulder apron laid in wire crates with 4 mm dia GI wire conforming to IS:280 and IS:4826 in 100 mm X 100 mm mesh (woven diagonally) including 10 per cent extra for laps and joint laid with stone boulders weighing not less than 25 Kg each as per drawing and technical specifications Clause 1301. | 423 | 750 | Per cubic Metre | 3,17,250 |
| 3 | Provoide the GI wire of dia 4mm with all costs at site including Transportation and other charges. | 1563 | 83 | Kg | 1,32,855 |
| | | | | Total | 5,60,355.00 |

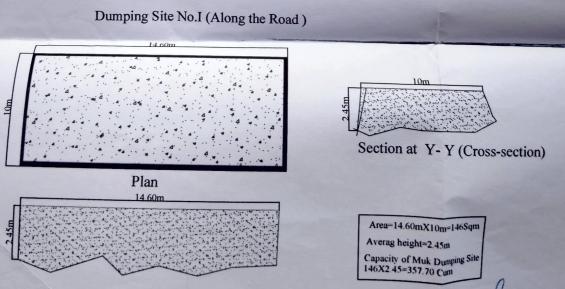
Er. Vijay Singh(Civil)

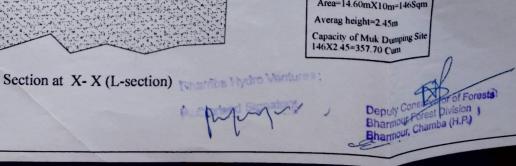
Naman Engineers and Consultants

Dumping Site No.III (Along the Road) Section at Y-Y (Cross-section) Plan 11.30m Area—11.30mX10m—113Sqm Averag height = 2.45m Capacity of Muk Dumping Site 113X2.45—276.85 Cum Section at X-X (L-section)

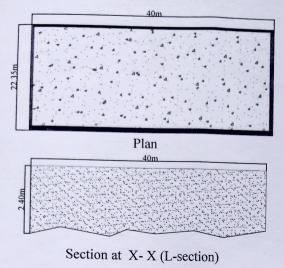


Section at X-X (L-section)





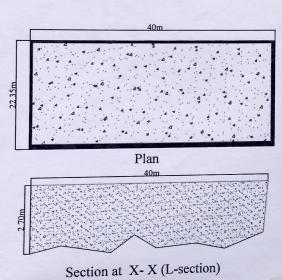
Dumping Site No.IV (Along the Intake/TrenchWeir,Feeder Channel,Silt Flushing, D/Tank,and hrt inlet)

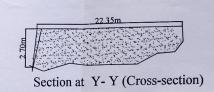


Section at Y- Y (Cross-section)

Area=40mX22.35m=894Sqm Averag height=2.40m Capacity of Muk Dumping Site 894X2.40=2145.60 Cum

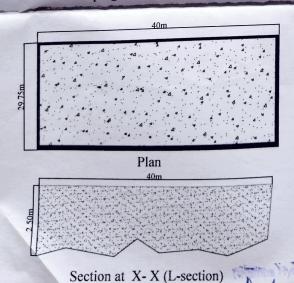
Dumping Site No.VI (Along the hrt outlet, and Shurg Tank)

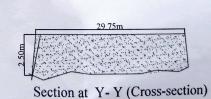




Area=40mX22.35m=894Sqm Averag height=2.70m Capacity of Muk Dumping Site 894X2.70=2413.80 Cum

Dumping Site No.V (Along the penstock, Power House, and Switch Yard)





Area=40mX29.75m=1190Sqm Averag height=2.50m Capacity of Muk Dumping Site 1190X2.50=2975 Cum

> Deputy Contervator of Forests Bharmour Forest Division Bharmour, Chamba (H.P.)

CHAMBA HYDRO VENTURES

HOTEL ALPS RESORTS, PO & TEHSIL DALHOUSIE, DISTT. CHAMBA HP- 176304 Mob. No. 9418080340 Email Id—ranjan.upmanyu@gmail.com

Ref. No. - CHV/F(A/292/24

Dated 2813124

UNDERTAKING FOR DUMPING MUCK

I Rajeev Kumar Upmanyu authorised signatory of M/S **Chamba Hydro Ventures**, hereby undertake the muck generated from the construction of Ghator Top HEP will not be disposed off in the nearby forest, river/stream except in the diversion area for Dumping sites.

Date---- 28/3/24

Place--- Bharmour

For Chamba Hydro Ventures

Authorized Signatory

Deputy Conservor of Forests Bharmour Ferest Division Bharmour, Chamba (H.P.)