


Annexure-I

| Cost Estimate For Engineering Measures | | | | | | | | |
|---|---|--------|-----------|----------|-----------|---------------|--------------------|------------|
| S.No. | Name Of Work | Number | Length(m) | Width(m) | Height(m) | Quantity(cum) | Rate(Rs) | Amount(Rs) |
| A. Muck Disposal Site -1(km3+320 to km3+580) | | | | | | | | |
| 1 | Earthwork for Trunch Excavation in Dense Soil | 1 | 450 | 2.4 | 2.4 | 2592 | 332 | 860544 |
| 2 | PCC of M-15 grade below Gabian Wall | 1 | 450 | 2.4 | 0.1 | 108 | 5500 | 594000 |
| 3 | Construction of Gabian Wall | 1 | 450 | 2.4 | 1.2 | 1296 | 1200 | 1555200 |
| | | 1 | 450 | 1.2 | 1.2 | 648 | 1200 | 777600 |
| | | | Length(m) | | | Quantity(rmt) | Rate(Rs) | |
| 4 | Laying of RCC hume pipe(NP-3)600mm dia for Drainage | 32 | 2.5 | | | 80 | 2678 | 214240 |
| | | | | | | | Sub-Total | 4001584 |
| | | | | | | | Contingencies@ 10% | 400158.4 |
| | | | | | | | Total (A) | 4401742.4 |
| B. Muck Disposal Site-2 (km10+560 to km 10+640) | | | | | | | | |
| 1 | Earthwork for Trunch Excavation in Dense Soil | 1 | 150 | 2.4 | 2.4 | 864 | 332 | 286848 |
| 2 | PCC of M-15 grade below Gabian Wall | 1 | 150 | 2.4 | 0.1 | 36 | 5500 | 198000 |
| 3 | Construction of Gabian Wall | 1 | 150 | 2.4 | 1.2 | 432 | 1200 | 518400 |
| | | 1 | 150 | 2.4 | 1.2 | 432 | 1200 | 518400 |
| | | 1 | 150 | 1.2 | 1.2 | 216 | 1200 | 259200 |
| | | | Length(m) | | | Quantity(rmt) | Rate(Rs) | |
| 4 | Laying of RCC hume pipe(NP-3)600mm dia for Drainage | 26 | 2.5 | | | 65 | 2678 | 174070 |
| | | | | | | | Sub-Total | 1954918 |
| | | | | | | | Contingencies@ 10% | 195491.8 |
| | | | | | | | Total (B) | 2150409.8 |
| | | | | | | | Grand Total (A+B) | 6552152.2 |


 General Manager (P)
 N.H.I.D.C.L.,
 PMU-Akhnoor (J&K)

DETAIL OF MUCK/DEBRIS TO BE PRODUCED

Name of Project: Additional Right of way (Row) requirement for development of Two Bridges located at km 2+250 to km 3+450 and km 10+100 to km 10+560 on Chenani-Sudhmahadev Road (NH-244).

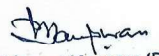
Detail of quantity to be produced and used during the construction of road.

| S.No | Description of items | Quantity (cum) |
|------|--|----------------|
| 1 | Total quantity to be produced during construction. | 110000 |
| 2 | To be used for soiling of road, wearing of road, filling behind R/Walls of road and for construction of sub-grade of Road. | 48000 |
| 3 | Net quantity to be Dumped(2-1) | 62000 |
| 4 | Soil Factor 40% | 24800 |
| 5 | G-Total (3+4) | 86800 |


General Manager (P)
N. H. I. D. C. L.,
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Statement Showing Details of Places For Disposal of muck/Debris of “Additional Right of way (Row) requirement for development of Two Bridges located at km 2+250 to km 3+450 and km 10+100 to km 10+560 on Chenani-Sudhmahadev Road (NH-244)”.

| S.No. | Name of Dumping | Location of dumping | Slop of the dumping site | Area(sq.m) | Quantity of muck/Debris to be dumped(cum) | Height of dumping expected(m) | Remark Area in Ha. |
|-------|-----------------------|----------------------|--------------------------|------------|---|-------------------------------|--------------------|
| 1 | First Dumping site -1 | Km 3+320 to km 3+580 | 1:7 | 13000 | 32000+40% Soil factor | 3.5 | 1.33 |
| 2 | Second Dumping Site | Km 10+560 to 10+640 | 1:7 | 11000 | 30000+40% soil factor | 4.0 | 1.11 |


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Statement Showing Details of Places For Disposal of muck/Debris of “Additional Right of way (Row) requirement for development of Two Bridges located at km 2+250 to km km 3+450 and km 10+100 to km 10+560 on Chenani-Sudhmahadev Road (NH-244)”.

| S.NO. | Name of component from Muck/Debris to be produced | Total Qty. of Muck/Debris to be produced(in cum) | Quantity of muck to be utilized locally(in cum) | Quantity of muck to be Dumped on compact basis (in cum) | Factor of increase in volume for dumping (in cum) | Qty. of Muck/Debris to be dumped on bases of increase in volume(in cum) | Name of dumping place | Slop of dumping place | Area of dumping place (in sq.m) | Area of forest land out of land in column 10 (in sq.m) | Height of Muck/Debris to be dumped expected(in m) | Remark |
|-------|---|--|---|---|---|---|-----------------------|-----------------------|---------------------------------|--|---|--------|
| 1 | Formation Cutting work-97 | 60000 | 46.67%= 28000 | 53.33%= 32000 | 1.40 | 44800 | Chenani | 1:7 | 13300 | 13300 | 3.5 | |
| 2 | Formation Cutting work-102 | 50000 | 40.00%= 20000 | 60.00%= 30000 | 1.40 | 42000 | Chullyar | 1:7 | 11000 | 11000 | 4.0 | |


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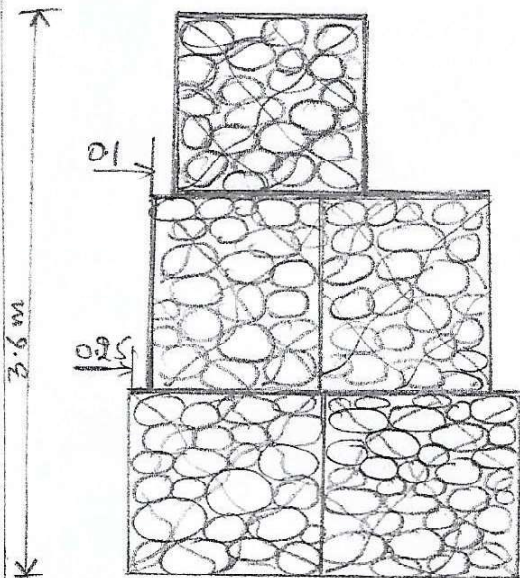
Full Title of project: Additional Right of way (Row) requirement for development of Two Bridges located at km 2+250 to km km 3+450 and km 10+100 to km 10+560 on Chenani-Sudhmahadev Road (NH-244)".

Statement Showing the Road line to be constructed from construction of Additional Right of way (Row) requirement for development of Two Bridges located at km 2+250 to km km 3+450 and km 10+100 to km 10+560 on Chenani-Sudhmahadev Road (NH-244)".

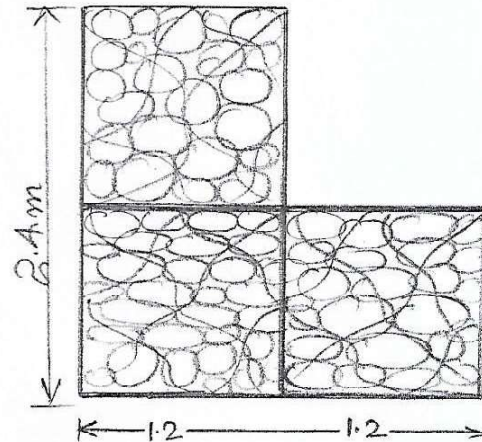
| S. No. | RD | | Distance in Meters | | | Width of ROW(m) | Area of Road in sqm | | Total Area in Sqm. | Name of village | Muck/ Derbies to produce(in Cum) | Muck/ Derbies to produce locally From 50% | Muck/ Derbies dumped locally for work (in Cum) | Remark |
|--------|--------|--------|-------------------------|-----------------------------|-------------------|-----------------|---------------------|-----------------|--------------------|-----------------|----------------------------------|---|--|--------|
| | From | TO | Forest land(in meters) | Non-Forest land(in meters) | Total (in meters) | | Forest Land | Non-Forest Land | | | | | | |
| 1 | 2+250 | 3+450 | 830 | 370 | 1200 | 24&30 | 23700 | 8880 | 32580 | Chenani | 60000 | 30000 | 30000 | |
| 2 | 10+100 | 10+560 | 180 | 280 | 460 | 24&30 | 3460 | 3050 | 6510 | Chullyar | 50000 | 25000 | 25000 | |

[Signature]
General Manager (P)
N. H. I. D. C. L.
PMU-Akhnoor (J&K)

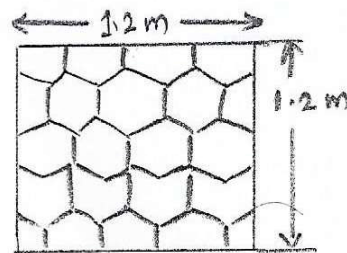
GABION WALL...



Section of GABION WALL
3.6m Height

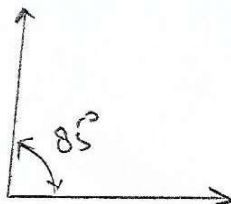


2.4m Height



GABION BOX

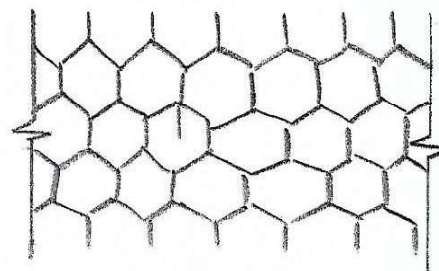
INCLINATION OF
VERTICAL FACE



INCLINATION OF
HORIZONTAL FACE



Mayra
General Manager (P)
N. H. I. D. C. L.,
PMU-Akhnoor (J&K)



ZINC COATED STEEL
WIRE GABION MESH.