

OFFICE OF THE EXECUTIVE ENGINEER PWD(R&B) DIVISION
UDHAMPUR

The Divisional Forest Officer,
Udhampur.

No:- 1920-23

Dated:- 30-04-2021


Sub:- Engineering measures for stabilization of muck dumping site.

Ref:- Circular issued under endorsement No. PCCF/FCA/3118/6141-80 dated 29.03.2021.

Madam,

As desired vide above circular, kindly find enclosed model plan related to engineering measures for stabilization of muck dumping site in forest area in respect to Upgradation of Udhampur-Ghordi road from Km 13th to 26th from single lane to double lane (Under CRF) for your perusal please.

Yours faithfully,


Executive Engineer
PWD (R&B) Division
Udhampur

Copy to the:-

1. Superintending Engineer PWD (R&B) Circle, Udhampur for kind information
2. Assistant Executive Engineer, PWD (R&B) Sub-Division Barmeen for information.
3. Master file.

Model plan related to Engineering Measure for stabilization of Much Dumping sites in Forest Area in respect of Upgradation of Udhampur-Ghordi road from Km 13th to 26th from single lane to double lane (Under CRF)

Typical estimate for construct of crated wall top protect dumping sites of surplus muck/ excavated material in forest area as per Engineering Measures.

Total length of crated wall = 70 Mrs

Trench excavation in dense soil by mechanical means

For structure = 1x70 mtrx1.4 mtr x 0.6 mtr
= 58.8 cum @ 252.05/ cum = 14820.00

For two layered crated wall

Quantity = 2x70 mtr x 1.20 mtr x 1.20 mtr = 201.6 Cum

Amount = 201.60 @ 13970.00/ cum = Rs. 281635.00

Total amount for 70 Mtr two layered crated wall = Rs. 14820 + 281635 = 296455.00

Cost per Rmt = 4235/- per Rmt



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Full title of the project:- Upgradation of Udhampur-Ghordi road from Km 13th to 26th from single lane to double lane (Under CRF).

File No.

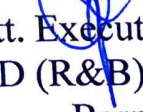
Date of proposal:-

DETAIL OF MUCK / DEBRIS TO BE PRODUCED

Name of work:- **Upgradation of Udhampur-Ghordi road from Km 13th to 26th from single lane to double lane (Under CRF)**

DETAIL OF QUANTITY TO BE PRODUCED AND USED DURING THE CONSTRUCTION OF ROAD

| Sr. No. | Description of items | Quantity (in cum) |
|---------|---|-------------------|
| 1. | Total quantity to be produced during construction | 12000 |
| 2. | To be used for soling of road (6.5%), wearing of road (6.5%) and filling behind retaining walls and road (20%) total (33%). | 3960 |
| 3. | To be used for local use for construction of road average (total 33%) | 3960 |
| 4. | Total Quantity to used (2+3) | 7920 |
| 5. | Net quantity to be dumped (4-3) | 4080 |
| 6. | Soil factor 40% | 1632 |
| 7. | G.Total (5+6) | 5712 |


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Full title of the project:- Upgradation of Udhampur-Ghordi road from Km 13th to 26th from single lane to double lane (Under CRF).


File No.

Date of proposal:-

STATEMENT SHOWING THE ROAD/ CANAL / RAILWAY LINE TO BE CONSTRUCTED UPGRADATION OF UDHAMPUR-GHORDI ROAD FROM KM 13TH TO 26TH FROM SINGLE LANE TO DOUBLE LANE (UNDER CRF)

| S.No. | RD | | Distance in mtr | | | Width of right of way | Area of road | | Total Area in Sqm | Name of village/ Muhal and forest area nearby | Muck/ Debries to produce locally from 66% | Muck / Debries as dumped locally for work 34% | Remarks |
|-------|--------|--------|----------------------|--------------------------|----------------|-----------------------|--------------|-----------------|-------------------|---|---|---|---------|
| | From | To | Forest land (in mtr) | Non forest land (in mtr) | Total (in mtr) | | Forest land | Non forest land | | | | | |
| 1. | 12/275 | 13/525 | 1250 | - | - | 11 | 8875 | 68125 | 77000 | Salghar | 12000 | 7920 | 4080 |
| 2. | 14750 | 15/275 | 525 | - | 1775 | | Sqm | | | | | | |



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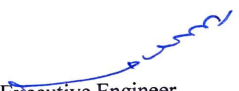

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PROFORMA-III (REFER ITEM -8)

STATEMENT SHOWING DUMPING QUANTITY OF MUCK / DEBRIS TO BE DUMPED WITH OTHER DETAILS FOR UPGRADATION OF UDHAMPUR-GHORDI ROAD FROM KM 13TH TO 26TH FROM SINGLE LANE TO DOUBLE LANE (UNDER CRF)

| Sr. No. | Name of component from Muck Debris is to be produced | Total Qty. Muck Debris is to be produced (M3) (in Cum) | Qty of Muck/ Debris to be utilized locally (M3) (in Cum) | Qty. Of Muck/ Debris to be Dumped on compact basis (In Cum) | Factor of increase in vol. For dumping (in cum) | Qty of Muck/ Debris to be /dumped on basis of increase (in Cum) | Name of Dumping Place | Slope of dumping place | Location of the dumping place, police Station and Nearly road | Distance of dumping place from river (in Kms) | Area of dumping place with length and Breadth (in hect) | Area of forest land out of land in Column-10 (in hect) | Height of Muck/ Debris dump expected (Vol. Area) (in mtrs) | Remarks |
|---------|--|--|--|---|---|---|------------------------|------------------------|---|---|---|--|--|---------|
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. | 12. | 13. | 14. | 15. |
| 1 | Formation cutting work | 12000 | 7920 | 4080 | 1.40 | 5712 | RD 12/300 to RD 12/350 | 7 H : 1V | - | - | 50x20 = 0.1 Hect | 0.98 Hect | 8.00 | |


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ANNEXURE-"B-1"

PROFORMA-V

STATEMENT SHOWING DETAIL OF PLACES FOR DISPOSAL OF MUCK / DEBRIS FOR UPGRADATION OF UDHAMPUR-GHORDI ROAD FROM KM 13TH TO 26TH FROM SINGLE LANE TO DOUBLE LANE (UNDER CRF)

| Sr. No. | Name of dumping place | Location of dumping place | Slope of dumping place | Length and width (in mtr) and area of Dumping place (in sqm) | Quantity of muck /debris to be dumped (in cum) | Height of duping expected | Remarks (are in Hect) |
|---------|-----------------------|---------------------------|------------------------|--|--|---------------------------|-----------------------|
| 1 | Dumping place Salghar | RD 12/300 to 12/350 | 1V: 7H | 50x20 = 1000 Sqm | 5712 | 8.0 | 0.1 Hect |
| | | | Total | 1000 Sqm | 5712 | 8.0 | 0.1 Hect |


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ANNEXURE 'A'



TYPICAL SITE PLAN AND
 X-SECTION FOR
 STABILIZATION OF
 MUCK / SURPLUS
 EXCAVATED MATERIAL
 IN FOREST AREA
 SCALE SITE PLAN
 1cm = 10m
 X Section 1cm = 2m

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