

Title of the project: CONSTRUCTION OF LINK ROAD FROM BHADELA TO HALAN VIA BHANDROTA KM 0/0 TO 8/300.

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Detail Reclamation Plan

for dumping site in respect of FCA proposal for the Construction of Link road from Bhadela to Halan via Bhandrota km 0/0 to 8/300.

Diversion of 4.75 ha. of forest land has been proposed for the Construction of Link road from Bhadela to Halan via Bhandrota km 0/0 to 8/300. The total length of the road is 8.300 Km. out of which 7.500 Kms. of road will pass through the forest land and 0.800 Kms. will be pass through private land. The construction of this road will generate a quantity of muck is 119692.07 Cubic Meter. By taking a swell factor of 35% on pick and jumper work and 20% on blast work the total muck becomes 151447.11 cubic meter out of which 37861.71 cubic meter muck excavated will be used locally for constructing stone masonry structures and 53006.49 cubic meter of muck will be used for levelling of proposed road. The net quantity left for the dumping is 60578.84 cubic meter & the dumping places have capacity for handling 62410.00 Cubic Meter of muck. The user agency has identified 4 No. dumping site for the disposal of this muck. These dumping sites have been identified along the proposed road and the capacity of these dumping sites has been worked out 62410.00 cubic meter which is sufficient to hold the muck to be generated.

Thus all the muck generated will be dumped in the designated dumping sites 4 number dumping site designated as DS-I to DS-4 have been identified for dumping of muck debris to be produced during the construction phase of the project. It is proposed that the dumping sites are treated in such a manner that these do not pose any problem to the environment management consideration arising out the necessity to stabilize the dumping sites at the earliest. Therefore this reclamation plan has been formulated with the following objectives:

1. To arrest the dumped muck in-situ that it does not find its way to the nearby drainage channels thus altering the drainage pattern of the area.
2. To rehabilitate the dumped area over a period of time so that it merges with the adjoining natural landscape and does not stand out as a sore point.
3. To improve the aesthetic of the dumping grounds dumping site by planting suitable plants and trees thereby increasing the vegetal cover in the area.
4. To stabilize the dumping site by vegetative and engineer structures.

Implementation:-

The proposal will be implemented by the user agency itself as its own cost as detailed in this plan. The implementation of the plan will be supervised by the forest department from time to time and the progress will be periodically monitored. In case of default the sanction of diverted land may be revoked with suitable penalty as decided by the Govt. of India.

Strategy:

The pronged approach will be followed for reclamation of dumping sites. In the first instance crate wall will be created around the dumping site so that required capacity for dumping of muck is created at the sites. The detailed drawings of the crate work to be undertaken are enclosed. The primary objective of the crate works will arrest the dumped muck at the dumping sites and not allow its spillage to adjoining areas and eventually to hereby drainage lines. The capacity of the dumping sites has calculated as detailed in the table and will be enough to hold the muck required to be dumped in each of the sites.

In the second phase once the dumping is complete it will be ensured that the dumping site is planted with grasses bushes shrubs and tree so that it gives an aesthetic look. This vegetal cover will also help in binding the soil and will prevent its erosion. For vegetating the dumping sites suitable local species will be preferred. However it may be noted that bulk of the muck to be dumped will be excavated material which will be lacking in essential nutrients and organic matter. Hence it will be desirable to increase the nutrient status of the top soil to make it conducive to tree/ vegetal growth. For this purpose maturing of top soil be done. If required imported soil be brought to replenish the top soil. Intently grasses and bushes will be planted in the area of improve the soil condition. Once these grasses and bushes take hold of the site tree species will be planted in next phase. The trees species to be planted will be namely Robinia, Lucinea, albizia, Drek, Bamboo and Shisham. Grasses like Stereia and Napier will also be propagated. Trees will be planted as the closer spacing so that canopy is closed at the earlist. Hence the spacing will be kept at 1.5 mtr x 1.5 mtr. The total area involved in dumping is 31000.00 Square metre. Thus in all 10450 number plants will be planted at dumping site will be fenced with barbed wire fencing to prevent the entry if stray cattle herby ensuring the protection of plant from grazing. Also due to inert nature of soil plant will be need extra care for their establishment for the purpose imported soil organic manure will be added in each pit for easy establishment of plants. Watering of the plant in dry section will be provided to prevent mortality the plantation will be further maintained at project cost for next five year beating up of failure will be done.

The total cost of the reclamation plan is Rs. 1837180/- only

Post reclamation arrangement:

Since the area in question is required by the user agency only for the temporary use of dumping hence the area will be reverted back to forest department after

implementing the reclamation plan. If so stipulated by Govt. of India. However if at the time of so reverting back the areas to forest department if any activities as per this reclamation plan is found wanting then the forest department may realize the cost that activity from the user agency at the prevailing wages rates applicable in forest department and may get the same done departmentally at the project cost.


**Executive Engineer,
Salooni Division,
HP.PWD Salooni.**


**Divisional Forest Officer
Churah Forest Divn. Salooni**