

REHABILITATION PLAN DUMPING SITES RESPECT OF FCA PROPOSAL FOR CONSTRUCTION OF LINK ROAD FROM DADRIARA TO CHAKKI.

Diversion of 6.2455 hectare of forest land has been proposed for the construction of Link Road from Dariara to Chakki Km. 0/0 to 13/500. The total length of the road is 13.500 out of which 11.275 kms will pass through the forest land. The road will be constructed in cut and fill. A total of 41975.00 cubic meters of muck will be generated during the construction of this road. Out of this about 12592.00 cubic meters will be used locally for filling and the remaining 29383.00 cubic meters will be required to be dumped elsewhere. Since after excavation of earth, there will be some increase in volume of soil which is calculated @40%. After increase of 40% in volume 41137.00 cum. muck will have to be disposed off in the identified dumping sites which is as per the reclamation plan attached.(see Annexure R2).

Thus out of the muck generated some will be utilized either locally as filling in retaining walls and B/walls and crate work and leveling of ground or will be dumped in the designated dumping sites. Seven number dumping sites designated as DS1, DS2, DS3, DS4, DS5, DS6 and DS7 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 environmental management of the locality. This reclamation plan has been framed keeping in view environmental considerations arising out of the necessity to stabilize the dumping sites at the earliest. There fore this reclamation plan has been formulated with the following objectives.

1. To arrest the dumping muck in-situ so that it does not find its way to the near by drainage channels, thus altering the drainage pattern of the area.
2. To rehabilitate the dumping area over a period of time so that it merges with the adjoining natural land space and does not stand out as a soar point.
3. To improve the aesthetic view of the dumping ground /dumping sites by planting suitable and tree species there by increasing the vegetable cover in the area.
4. To stabilize the dumping site by vegetative and engineering structures.

Implementation:

The proposal will be implemented by the user agency it self at its own cost as detailed in this plan the implementation of 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 Govt. of India.

Strategy:

Two prolonged approach will be followed for reclamation of sites. In the first instance crate walls will be erected around the dumping sites so that required capacity for dumping of muck is created at the sites. The detailed Drawing of the create work to be under taken are enclosed as annexure R5 of the dumping sites. The capacity does not allow the spillage of muck to adjoining areas and eventually to nearby drainage lines.


The capacity of the dumping sites has been calculated as detailed in the table II 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 sites are planted with grasses bushes shrubs and trees so that it gives an aesthetic look. This vegetative 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 soil. Initially grasses and bushes will be planted in the area to improve the soil condition. Once these grasses bushes take hold of the sites, tree species will be planted in the next phase. The tree species to be planted will be mainly Shisham, Tunu, chil, Kanth, Rumbal, oie, Jamun. Grasses like Steria and Napier will also be propagated. Trees will be planted at a closer spacing so that canopy is closed at the earliest. Hence the spacing will be kept at 1.5mtr x1.5 mtr the total area involved in sites is 6080.00 sqm. Thus in all 2702 plants will be planted at dumping site. Shrub will be planted in between these trees. The dumping sites will be fenced with barbed wire fencing to prevent the entry of stray cattle there by ensuring the protection of plants from grazing. Also due to the nature of soil /Organic manure will be added in each pit for easy establishment of plants. Watering of the plants maintained for next seven years to avoid its failure.


The cost estimates are enclosed as Annexure R3 and year wise work schedule is attached as Annexure R4. Plantation work will be started from the year following the completion of dumping sites. However erection of concrete walls around the dumping sites will be done prior to the actual dumping starts. The total cost of the reclamation plan is Rs. 26,60,800/-

Post reclamation Arrangements:-

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 the Govt. of India. However if at the time of so reverting back the areas to forest department, if any activity as per this reclamation plan is found damaged then the forest department, may realize the cost of that activity from the user agency at the prevailing wage rates applicable in forest department and may get the same done departmentally by themselves.


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DETAIL OF MEASUREMENTS

Name of work: C/o. Link Road from Dadriara to Chakki Km. 0/0 to 13/500.

Sub-Head: Dumping place of muck/ Debris to be dumped in between RD.0/0 to 0/060, 0/530 to 0/590, 1/950 to 2/030, 6/500 to 6/580, 7/140 to 7/190, 9/225 to 9/325 & 11/440 to 11/540.

S.No.	RD/KM	Name of Dumping Places	X-sec. Area	Mean Area	Length	Qty.
1.	0/000	0/060	D1	73.65	60.00	4419.00 cum.
2.	0/530	0/590	D2	81.03	60.00	4862.00 cum.
3.	1/950	2/030	D3	68.91	80.00	5513.00 cum.
4.	6/500	6/580	D4	86.43	80.00	6915.00 cum
5.	7/140	7/190	D5	52.10	50.00	2605.00 Cum.
6.	9/225	9/325	D6	76.23	100.00	7623.00 Cum.
7.	11/440	11/540	D7	92.00	100.00	9200.00 Cum.
TOTAL						41137.00 Cum

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