परियोजना का नाम:-

मा० मुख्यमंत्री जी की घोषणा सं० 105/2017 के अन्तर्गत जनपद देहरादून के विधान सभा क्षेत्र डोईवाला दूधली मुख्य मार्ग से चांदमारी मिस्सरवाला लच्छीवाला पुल तक मोटर मार्ग का डबल लेन में निर्माण एवं फुटपाथ का निर्माण हेतु 3.600 है० वन भूमि का लो०नि०वि० को हस्तान्तरण।

Task Force Certificate

1. Lay out of the land be followed as far as possible.

2. Heavy cutting/filling be avoided - as far as possible. The technology of cut and fill method is to be adopted. Steep hill slopes also to be avoided.

3. Unstable/slide- prone areas to be avoided. For identifying such area the advice of Geotechnical engineers and geologists to be taken during the survey for alignment.

4. A Comparison of various possible alignments with reference to eriosion potential be made and the alignment involving minimum erosion risks be preferred.

Apart from the stage of planning the road alignment, effective steps are also required to be taken by ground engineer during the process of road construction for minimized ecological disturbance to the hill roads. Broadly the measures to be taken have been identified as-

(i) Cut and fill method to be adopted while excavating for road formation and heavy earth cutting is to be avoided. Box cutting is to be avoided to the extent possible.

Blasting by explosives is to be restricted to the minimum. Lay out of holes to be drilled for blasting is to be planned keeping in view the line of least resistance and the existence of joints. Controlled blasting should be repeated using low charge and care be taken to avoid activating slide zones or widening fissures and cracks in Road. Use of delay detonators in large scale blasting work is to be made for an online dispersion of chock waves, so that minimum disturbance is caused to the rock stratum as a result of the blasting process.

(iii) All cut slopes, unusable hillside and slide prone erosion prone areas are to be provided with suitable correction measures by using one or the other of the techniques developed by CRRI. Several techniques have been sponsored by CRRI like simple vegetative. Turing bitumen much treatment and slide treatment by jute netting coir netting of these simple vegetative turning seems to be the most appropriate preventive measure in many situations. This should be established in the denuded slopes immediately after the excavation is made.

(iv) Adequate drainage measures and protective structures like intercepting each water drains, longitudinal drains/culverts, breast walls, retaining walls are to be provided for purposes of establishing the slips growth vegetative cover is to be stimulated in the disturbed hill slope above the road level by planning suitable fast growing shrubs and plants. In certain selected unstable areas terraced. Afforestation has also been protected as a established measure with

(v) Over the past few years the roads wing of the Ministry of shipping and transport has issued instruction laying down broad guidelines and checklist of the preparation of road construction projects which provide an in built mechanism of tackling land slides/erosion control for the guidance and follow up action by engineers of state 'PWD' Bonder Roads Organization and others engaged in construction of hill roads these should be observed.

प्रमाणित किया जाता है कि योजना आयोग द्वारा गठित टास्क फोर्स द्वारा प्रदत्त उक्त संस्तुतियां का परियोजना के निर्माण के दौरान अनुपालन सुनिश्चित किया जायेगा।

सहायेक अभियन्ता अस्थाई खेण्ड. लो०नि०

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