## प्रारूप-

## भू—वैज्ञानिक / जिला स्टॉक फोर्स की संस्तुतियों का अनुपालन किये जाने का प्रमाण—पत्र

कार्य का नाम:— राज्य योजना के अन्तर्गत जनपद उत्तरकाशी के विकास खण्ड चिन्यालीसौड में चिन्यालीसौड़—जोगथ मोटर मार्ग से पुजारगांव भडेश्वर मन्दिर तक मोटर मार्ग का निर्माण कार्य 1.825 किमी0 (लम्बाई) निर्माण हेतु 1.4385 है0 आरक्षित/सिविल वन भूमि हस्तान्तरण प्रस्ताव।

प्रमाणित किया जाता है, कि राज्य योजना के अन्तर्गत जनपद उत्तरकाशी के विकास खण्ड चिन्यालीसौंड में चिन्यालीसौंड—जोगध मोटर मार्ग से पुजारगांव भडेश्वर मन्दिर तक मोटर मार्ग का निर्माण कार्य 1.8250 किमी0 (लम्बाई) निर्माण हेतु 1.3475 हे0 आरक्षित वन भूमि, 0.0910 हे0 सिविल स्वयं व नाप भूमि 0.1190 हे0 में तक प्रस्तावित परियोजना हेतु भू—वैज्ञानिक/जिला टॉस्क फोर्स द्वारा दिये गये सुझावों/शर्तों का निर्माण कार्य के दौरान विभाग द्वारा पूरी तरह अनुपालन किया जायेगा।

अधिशासी अमियन्ता निर्माण खण्ड, लो.नि.वि. कार्य का नाम:--

राज्य योजना के अन्तर्गत जनपद उत्तरकाशी के विकास खण्ड चिन्यालीसौंड में चिन्यालीसौंड—जोगथ मोटर मार्ग से पुजारगांव भडेश्वर मन्दिर तक मोटर मार्ग का निर्माण कार्य 1.825 किमी0 (लम्बाई) निर्माण हेतु 1.4385 है0 आरक्षित/सिवल वन भूमि हस्तान्तरण प्रस्ताव।

## **Task Force Certificate**

- Lak out of the Land-be followed as possibie.
- (ii) 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.

(iii)

- (iv) Unstable/slide-prone areas to be avoided. For identifying such areas the advice of Geotechnical engineers and geologists to be taken during the survey for alignment.
- (v) Comparison of various possible alignments with reference to erosion potential be made and the alignment involving minimum erosion risks be preferred.

A part 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.
- (ii) Biasting by explosives is to be restricted to the minimum. Lay out of holes to be drilled for blasting is to be planned keeping is view the line of least resistanced 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 roak. Use of delay detonators in large scale basting work is to be made for analoline dispersion of chock waves, so that minimum

(ii) All cut slopes, unusable hill side ad slide prone erosion prone areas are to be provided with suitavle correction measures be using one or the other of the techniques developed by CRRI. Several techniques have beeb sponsored by CRRI. Iike simple vegetative turning, bitumen much treatment and slide treatment by jute netting coir netting of these simple vegetative turning seems to

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.

(iii) Adequate drainage measures and protective structures like intercepting catch water drains, longitudinal drains/culvers, breast walls, retaining and the walls are provided for purposes of establishing the slips Growith vegetative cover is stimulated in the disturved hill slops above the road level by planting suitable fast

growing shrubs and plants. In certain selected unstable areas terraced afforestation has also been plasticized as a stabilizing measure with good results.

(vi) Over the past few years the roads wing of the Ministry of Shipping and transport has issued instruction laying down broad guidelines and eheck list of the preparation of road construction projects which provide an inbuilt mechanism of tacking land slides/erosion control for the guidance and follow up action by engineers of state "PWD" Border Roads Organization and other engaged in

construction of hill roads these should be observed. प्रमाणित किया जाता है, कि योजना आयोग द्वारा गठित टास्क फोर्स की

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उपरोक्त संस्तुतियां याचक विभाग को मान्य है।