

परियोजना का नाम:- प्रधानमंत्री ग्राम सड़क योजना के अन्तर्गत चिन्हालीसौड़ से कोट-बागी मोटर मार्ग के किमी० 7.00

- (i) Heavy vehicles weighing more than 10.00 tonnes should be avoided on steep slopes and to be avoided.
- (ii) Unstable areas should be avoided. For identifying such areas the advice of Geotechnical engineers is required to be taken during the survey for alignment.

भू-वैज्ञानिक/ जिला टॉस्क फोर्स की संस्तुतियों का अनुपालन किये जाने का प्रमाण-पत्र।

A part from the stage of planning the road alignment, other steps also required to be taken. प्रमाणित किया जाता है कि प्रस्तावित परियोजना हेतु भू-वैज्ञानिक/जिला टॉस्क फोर्स द्वारा दिये गये सुझावों/शर्तों का निर्माण कार्य के दौरान पी० एम० जी० एस० वाई०, सिंचाई खण्ड, उत्तरकाशी द्वारा पूरी तरह अनुपालन किया जायेगा।

- (i) Soil cutting for road formation and heavy earth cutting is to be avoided. Box cutting is to be avoided to the extent possible.
- (ii) 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 operated using low charge of explosives taking care to avoid activating slide zones, existing fissures and cracks. लाइव्री ऑफ डेले डेटोनेटर्स in large scale work is to be made for the generation of shock waves, so that no damage or disturbance is caused to the soil mass. सहायक अभियन्ता, पी० एम० जी० एस० वाई०, सिंचाई खण्ड, उत्तरकाशी
- (iii) All cut slopes, unusable hill side 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 turning, Blumen much treatment and slope 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 catch water drains, longitudinal drains/culvers, breast walls, retaining and the walls are provided for purposes of establishing the slips. Growth vegetative cover is stimulated in the disturbed hill slopes above the road level by planting suitable fast growing shrubs and plants. In certain selected unstable areas terraced afforestation has also been practised as a stabilizing measure with good results.
- (v) Over the past few years the roads wing of the Ministry of Shipping and transport has issued instruction laying down broad guidelines and check list of the preparation of road construction projects which provide an inbuilt mechanism of tackling land slides/erosion control for the guidance and follow up action by engineers of state 'PWD' Border Roads Organisation and other engaged in construction of hill roads these should be observed.

उपर्युक्त किया जाना है कि, यह यहां दर्शाये गए अल्प शर्तों को संतुष्ट बनाने के लिए

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