

ANNEXURE-IV

SPECIFICATION FOR ROADS AND CULVERTS

- a) Layout of the roads shall be as shown in the General Arrangement drawing for the substation issued along with the tender documents. Adequate turning space for vehicles shall be provided and bend radii shall be set accordingly. Road to the Autotransformer/Reactor shall be as short and straight as possible.
- (b) The double lane road shall have 7.0m wide black topping/concrete with 1.6 m wide earthen shoulder on either side of the road. Other roads shall be with 3.75 m blacktop/concrete with 1.3 m wide earthen shoulder on either side of the road as per drawing attached.
- (c) The black topping/Concrete roads shall have 300mm thick water bound macadam (WBM) in three equal layers of 100mm each at the bottom. Kerb stone with channel are to be provided on both side of the roads. 150mm dia pipe shall be provided at both the side of the road at 30m c/c on both side of the roads for drainage. The kerb stone on both side of the roads shall be painted yellow and black alternatively.

Concrete road shall have 150mm thick RCC (1:1.5:3 nominal mix) forming the top below which 100mm thick PCC (1:4:8) shall be provided. PCC and WBM shall extend 400mm on both sides in case on concrete road. Polythene sheet of 125 microns shall be placed between the RCC and PCC slab. Expansion joint (12mm thick) shall be provided at every 8.0 m. In addition, in case of 7.0m wide road, expansion joint shall also be provided at the center. 100mm dia RCC hume pipe (NP-3) shall be provided at every 100m interval across the length of the road for cable crossing.

- (d) The details are furnished in the enclosed drawing no: C\ENGG\STD\ROAD\1.
- (e) CPWD specification shall be followed for construction of Roads.
- (f) All the culverts and allied structures (required for road/rail, drain, trench crossings etc.) shall be designed for class AA loading as per IRC standard / IS code and should be checked for Autotransformer loading of about 300T