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Office of the
Chief Engineer, Electy.,(P&C)
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No. CEE(P&C)/SE(C)/KCO-118/42979/ 2022-23/

Encl:

Date:

24 MAY 2022

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OFFICIAL MEMORANDUM

Sub:-Revision of RCC road technical specification and drawing as per IRC & KPWD UNI SR Vol-3, 2021-22 specifications(Roads & Bridges).

Ref:- Note approved by Director (Transmission)

PREAMBLE:

- 1). The technical specification for Civil works portion for establishing new sub-stations of 400 kV, 220kV, 110 kV and 66KV capacities being taken up on turnkey contract basis stipulates for providing RCC Road M20 Grade. Some of the items, specifications/components in the existing RCC concrete road are made obsolete in the published KPWD UNI-SR 2021-22 (Roads & Bridges).
- 2). New technical specification for RCC road with M40 grade is to be developed as per IRC Specifications & using KPWD UNI-SR 2021-22 (Roads & Bridges). New drawing has to be released for execution in future KPTCL projects for formation of road as per IRC and MORTH Standards.
- 3). Corporate office has approved the proposal for change of technical specification for RCC road with M40 Grade.

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4). Hence the following order is issued for adoption with immediate effect.

ORDERS THERE ON:

Approval is hereby accorded for adoption of the following changes in the specifications for RCC road with immediate effect.

As existing	Changes approved for adoption
<p><u>RCC ROAD</u></p> <p>RCC Road (M-20 Grade) shall be provided as per the drawing furnished.</p> <p>1)The RCC road shall consist of subgrade compacted to 96% proctor density, PCC 1:4:8 plain concrete 100mm thick using 40 mm and down size jelly, 150 mm thick RCC(M-20 Grade) shall be provided with required reinforcement as indicated in the drawing.</p> <p>2)For road in expansive/ BC soil, a consolidated / compacted thickness of murrum/new earth 300mm thickness with 3% cement below 200 thick Wet mix macadam and 250 mm for shoulders shall be provided.</p> <p>3) RCC Kerb stones (M-20 Grade) shall be provided and fixed in cement mortar on either side of the road as per the drawing. The exposed faces of the kerb stone shall be painted with two coats of approved synthetic enamel paint (Black & Yellow stripes as per IRC standards shall be provided).</p>	<p><u>RCC ROAD</u></p> <p>RCC Road (M-40 Grade) shall be provided as per the drawing furnished.</p> <p>1)The RCC road shall consist of subgrade compacted to 96% proctor density, Wet mix macadam 100 mm thick, dry lean concrete M-10 (1:3:6), 150mm thick M-40 Grade concrete over polythene sheet (125 micron thick) with required reinforcement as indicated in the drawing as per IRC:58-2018 Expansion joints/Construction, Contraction and Transverse joints shall be as per IRC:57-2018.</p> <p>2)For road in expansive/ BC soil, a consolidated / compacted thickness of murrum/new earth 300mm thickness with 3% cement below 200 thick Wet mix macadam and 250 mm for shoulders shall be provided.</p> <p>3) RCC Kerb stones (M-20 Grade) shall be provided and fixed in cement mortar on either side of the road as per the drawing. The exposed faces of the kerb stone shall be painted with two coats of approved synthetic enamel paint (Black & Yellow stripes as per IRC standards shall be provided) over one coat of primer.</p>

Further, action may be taken to adopt the above mentioned specification and drawing for the DPR's /estimates and for works for which tenders are invited. The approved revised drawing for the RCC road incorporating the above changes is enclosed.


Chief Engineer Electy,(P&C)

Copy to:-

1. The General Manager (Technical), KPTCL, Kaveri Bhavan , Bengaluru for information.
2. The Chief Engineer Electy, T&P, KPTCL Kaveri Bhavan Bengaluru for information and to adopt the changes in the technical specifications for Civil works.
3. The Chief Engineer Electy, TA&QC, KPTCL - Kaveri Bhavan Bengaluru for information.
4. The Chief Engineer Electy, Transmission Zone, KPTCL, Bengaluru/Tumakuru/Mysuru/Hassan/Bagalkot/Kalaburagi for information and needful. The Major works Division officers in your jurisdiction may be informed for needful action.
5. Superintending Engineer Electy, Tech/Planning for information.
6. Mf /Oc.

