



GOVERNMENT OF KERALA
Finance (Inspection Wing - Technical) Department
Thiruvananthapuram

No.Insp-Tech/16/2016/Fin.

Dated : 20-07-2016

CIRCULAR

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Sub:- Estimate preparation for Road works -provisioning of Sub base/Base course with WMM instead of WBM - Reg.

Ref:- CTE inspection -Cost analysis of various items in the Estimate preparation of Road works.

1. It is observed that the rate adopted for the item of Water Bound Macadam (WBM) as Sub base or Base course is found to be more than that of Wet Mix Macadam (WMM) for same thickness in various Road works. Few examples in two districts are as under:-

Ernakulam:-

a) Agreement No. 175/SECCA/2015-16 dtd. 12-02-2016 of Superintending Engineer , PWD, Roads & Bridges ,Central Circle , Aluva.

Rate for WBM - Rs. 3461/cum (1st layer), Rs. 3622/cum (2nd layer).

b) Agreement No. 221/SECCA/2015-16 dtd. 03-03-2016 of Superintending Engineer , PWD, Roads & Bridges ,Central Circle , Aluva.

Rate for WMM - Rs. 3049/cum

Trivandrum:-

a) Agreement No. 21/CE-KSRRDA/14-15 dtd. 01-11-2014 of Chief Engineer , KSRRDA, Tvm.

Rate for WBM - Rs. 3242/cum (1st layer), Rs. 3304/cum (2nd layer).

b) Agreement No. PQ 27/sesc/2015-16 of Superintending Engineer ,
PWD, Roads & Bridges ,South Circle , Trivandrum.

Rate for WMM - Rs. 3087/cum

2. The quality and durability of WMM course is better than WBM due to pre mixing of well graded materials with optimum moisture content and hence better consolidation with higher density can be obtained. It is also observed that a huge quantity of earth as binding layer is laid over the WBM surface which adversely affects the quality of not only the WBM works but also the bituminous layer , if proper cleaning of the surface is not carried out.

3. In light of the above observations , in future, Wet Mix Macadam(WMM) as Sub base/ Base course instead of Water Bound Macadam(WBM) shall be considered during preparation of estimates for road construction, for cost optimization, speedy construction and durability of the road.

4. For WMM works having small quantity of Sub base/Base requirement, the Engineer-in-charge may permit the mixing to be done in small size concrete mixers or manual mixing as per MORT&H clause 406.3.4.

5. This circular may be communicated up to section office for necessary action.

K.P. PURUSHOTHAMAN,
Chief Technical Examiner &
Ex-officio Special Secretary to Government

To

The Accountant General (A&E/Audit), Kerala, Thiruvananthapuram.

The Principal Secretary, Finance Department.

The Principal Secretary, Public Works Department.

The Secretary, Water Resources Department.

The Secretary, Fisheries Department.

The Principal Secretary, Ports Department.

The Principal Secretary, Local Self Government Department.

The Principal Secretary, Forest & Wild Life Department.

The Principal Secretary, Industries Department.

The Principal Secretary, Science and Technology Department.

The Secretary, Agriculture Department.
The Chief Engineer, PWD (Roads & Bridges) & Admin, Thiruvananthapuram .
The Chief Engineer, National Highways
The Chief Engineer, Harbour Engg. Department.
The Chief Engineer, Local Self Government Dept.
The Chief Conservator of Forest (Admn), Thiruvananthapuram.
The Chief Engineer, Irrigation and Administration, Thiruvananthapuram.
The Chief Engineer, Irrigation Projects I/II Calicut/ Thiruvananthapuram.
The Chief Executive Officer, Road Fund Board.
The Chief Engineer, KSTP, Thiruvananthapuram.
The Chief Engineer, Buildings & Local Works, Thiruvananthapuram.
The Chairman, KSEB, Thiruvananthapuram.
The Managing Director, Kerala Water Authority.
The Managing Director, KITCO, Ernakulam.
The Chairman, GCDA, Ernakulam.
The Managing Director, KSRTC, Thiruvananthapuram.
The Managing Director, KTDC, Thiruvananthapuram.
The Managing Director, KLDC, Thrissur.
The Managing Director, KSCC, Thiruvananthapuram
The Managing Director, KPHCC, Thiruvananthapuram.
The Managing Director, KINFRA, Thiruvananthapuram,
The Managing Director, Kerala Electricals Ltd, Thiruvananthapuram.
The Registrar, Kerala/Kottayam/Kochi/Calicut/Kannur Universities
The Registrar, Sanskrit University, Kalady.
The Registrar, Kerala Agricultural University, Thrissur.
The Superintending Engineer, PWD, Roads, South Circle, Thiruvananthapuram /
Central Circle, Ernakulam / North Circle, Calicut.
The Superintending Engineer, HED - Thiruvananthapuram, Ernakulam, Calicut.
The Superintending Engineer, LSGD, Thiruvananthapuram.
The Superintending Engineer, National Highways, Thiruvananthapuram /
Ernakulam / Calicut
The Superintending Engineer, Irrigation, Thiruvananthapuram / Thrissur / Calicut
The Executive Engineer, LSGD, Thiruvananthapuram/ Kollam/
Kottayam/Alappuzha/
Pathanamthitta/ Idukki/ Thrissur/ Calicut/ Wayanad/Kannur/ Kasaragod
The Executive Engineer, Road and Bridges, Thiruvananthapuram / Kollam /
Alleppey / Kottayam / Ernakulam / Thrissur / Kozhikode /
Malappuram / Kannur /Kasaragod / Pathanamthitta / Idukki /
Palakkad / Wayanad / Muvattupuzha.
The Executive Engineer, N.H., Thiruvananthapuram / Ernakulam / Kollam /
Malappuram / Alappuzha / Trissur / Kozhikode / Kannur /
Muvattupuzha.
The Commissioner, Devaswom Board, Travancore / Kochi / Malabar.
All Heads of Engineering Departments & PSUs concerned.
The Nodal Officer, www.finance.kerala.gov.in

Forwarded / By Order



Accounts Officer