

No. RW-24011/3/2000-RMP(Pt.)

Dated, the 4th December 2000

To

The Secretaries of all States/UTs (in charge of PWD); Engineer-in-Chief and Chief Engineers of State PWDs and U.Ts (dealing with National Highways); Director General Border Roads; Director General (Works), Central Public Works Department

Subject: Use of Hot Mix Plants and allied machinery on National Highway works inspection-reg.

Ministry had issued instructions from time-to-time for inspection of Hot Mix Plants and allied machinery being used on NHs, by technical officers of the Ministry and the concerned State Govt. Such inspection is required to assure the contractors compliance with the contract and applicable specifications and do not relieve him of his responsibility to produce uniform mixtures in compliance with the contract, Ministry, vide their Circular letter No. RW/24011/3/2000 dated 2.11.2000 addressed to CE(NH) of PWDs of States/UTs, made it a mandatory provision that fitness of HMPs and allied machinery should be verified by a Technical Team before commencement of work.

Above issue was discussed during the Chief Engineers meeting held at Calcutta on 7.11.2000 during the 61st IRC Session. During the meeting it was learnt that in some case there was delay on the part of Inspecting Team in carrying out the inspection. As such, the matter was reviewed again in the Ministry and the following instructions are being issued on the subject in supersession of Ministry's earlier letter dated 2.11.2000.

- (1) The Inspecting Team should consist of RO(Mech), RO(Civil) of the Ministry, SE (Civil) and SE(Mech) (if available) of State PWD/NH.
- (2) Readiness of plant for load testing should be intimated to the Technical Team at least a week prior to the date of inspection.
- (3) If there be more than 2 weeks delay in inspection of the plant and allied machinery by the Technical Team, same may be put to work pending inspection. However, this would not absolve the contractor from using plant and machinery meeting the criteria for fitness and the State Govt. may take suitable action, under the terms of the contract, against the contractor if the plant and allied machinery are not found to be suitable by the Technical Team.

Since majority of the plants now working on NHs are of Drum Mix type, the existing check-list for inspection of Drum type Hot Mix Plants have been updated and is enclosed for adoption. Similar check-list for inspection of Paver Finisher is also enclosed.

[Enclosure to Ministry's Circular No. RW/24011/3/2000-RMP(Pt.) dated 4th December, 2000]

ASPHALT PAVER FINISHER - Check list for

A. GENERAL

1. State & NH Division concerned :
2. Date of Inspection :
3. Plant Inspected :
4. Plant Location :
5. Work specification & reference :
6. Mix one-way lead :
7. Contractor and owner of plant :

B. TECHNICAL FEATURES

Asphalt Paver should be of repute make and proven design. All components that are in contact with the mix during the laying processes should be made of high grade material of thick cross-section.

1. Capacity/Output (max) of

Paver _____ TPH (max)

HMP _____ TPH at 2 per cent to 6 per cent moisture content

Tipper _____ No. _____ Capacity _____

2. Prime Mover

Make _____

Power _____ HP/KW at _____ RPM

3. Power transmission : Hydrostatic or otherwise
4. Controls : Hydraulic or otherwise
5. Range of paving speeds : Infinitely variable or otherwise
6. Paving width : _____ Max. _____ Min.
7. Paving thickness : _____ Max. _____ Min.
8. Screed extension : Hydraulic/manual

(Hydraulically extendable telescopic screed desirable)

9. Material distribution

9.1. Hopper Capacity _____

9.2. Two Nos. bar feeders/Draw-slat conveyors

Yes/No

9.3. Independent speed control of each bar feeder

Yes/No

9.4. Auger diameter _____

9.5. Proportional speed control of each auger halves

Yes/No

10. Compaction mechanism

10.1. Tamping device

Yes/No

10.2. Screed vibratory unit

Yes/No

11. Screed heating device

Gas/Oil/Electric

12. "Paver should be equipped with control mechanism so as to ensure that the finished surface is free from blemishes".

For this purpose Paver should be provided with electronic sensor control devices for :

12.1. Maintaining constant head of material in front of the screed Yes/No

12.2. Maintaining constant travel speed Yes/No

12.3. Maintaining proper grade and transverse slope Yes/No

13. Any other remarks

(Signature of Inspecting Officers)