

GOVERNMENT OF ANDHRA PRADESH  
PANCHAYAT RAJ AND RURAL DEVELOPMENT (PROGS.I) DEPARTMENT

Memo No.1073 /Progs.I/2016-1

Dated:25.01.2016.

Sub: Construction of internal CC roads under MGNREGS in convergence with 13<sup>th</sup> & 14<sup>th</sup> Finance Funds- Further Guidelines issued- Reg.

- Ref: 1. G.O.Ms.No.58, PR&RD(RD.II) Dept. dated 18.6.2015.  
2. G.O.Ms.No.91, PR&RD(RD.II) Dept. dated 16.9.2015.  
3. Circular No.1926/EGS/DEE(T)/2015 dt.19.9.2015 of Technical Advisor to PR&RD Department.  
4. Circular No.1926/EGS/DEE(T)/2015 dt.04.12.2015 of Technical Advisor to PR&RD Department.  
5. Review meeting of Hon'ble Minister, PR, RWS&S & MGNREGS held on 30.12.2015 at Visakhapatnam .  
6. Representation of AP PR Engineers Association dated 18.01.2016.

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The attention is invited to the Guidelines for upgradation of Village internal roads with CC pavement in convergence with 13<sup>th</sup> & 14<sup>th</sup> Finance Commission Funds and other local funds issued vide reference 2<sup>nd</sup> cited, which were communicated to the SEs(PR) / EEs(PR) and requested to analyze the proportion of Cement Concrete based on the characteristics of aggregates that are available at their jurisdiction and get it approved by the SE(PR) concerned before adopting for providing M30 Grade of concrete.

2. Further, the following guidelines were also issued vide reference 4<sup>th</sup> cited:

- (i) Design mix has to be done in the District labs by the QC wing under the supervision of the Superintending Engineer (PR) and the same may be converted into volumetric batching and communicated to the field staff by the Superintending Engineer (PR) for convenience of work at GP level.
- (ii) For guidance sake, the volumetric proportion also suggested as approximately around (1:1.75 : 3.5) (cement: fine aggregate: coarse aggregate) .
- (iii). The cubes shall be tested at regular intervals to make suitable changes in the volumetric proportion wherever required.

3. Government have received requests from the field Engineers for modification of the guidelines regarding adoption of M30 Grade design mix concrete for CC Roads taken up under MGNREGS in convergence with 13<sup>th</sup>/14<sup>th</sup> Finance Commission, during Collectors conference held by the Hon'ble CM and the review meetings held by Hon'ble Minister for PR, RWS & S and MGNREGS.

4. Also, the Andhra Pradesh Panchayat Raj Engineers Association vide reference 6<sup>th</sup> cited have requested certain modifications to the guidelines issued vide G.O.Ms.No.91, Dt 16.09.2015 of PR&RD(RD.II) Department.

5. The Engineer-in-Chief, Panchayat Raj has also recommended certain modifications in technical guidelines for construction of internal CC roads.

6. The Government after consideration of all the requests, decided to adopt the following procedures for taking up of CC Roads:

- (i) As most of the internal roads being taken up under this program are having very less traffic intensity and as the program is being taken up in the Gram Panchayats having minimal technical Knowledge and as a massive program is taken up to lay CC pavement in all the Villages, it shall not be appropriate to consider IRC:SP:62:2014 for fixing the guidelines. **Hence the following guidelines outside the purview of the IRC:SP:62:2014 are issued.**
- (ii) For all the internal roads where the width is 3 m. or less, and where the traffic intensity is less than 50 CVPD (Commercial Vehicles Per Day), a nominal mix of **VCC (1:2:4)** equivalent to **M20 mix** (Cement: Fine Aggregate: Coarse Aggregate) **125 mm** thick is suggested to be adopted over a sub base of 150 mm thick stone dust or sand filling depending on the availability. In case of **B.C. Soils**, a sub base of 150 mm thick sand filling or stone dust filling depending on the availability, **75 mm thick CC (1:4:8)** and over that **VCC(1:2:4)** equivalent to **M20 mix 125 mm** thick to be adopted.

(PTO)

- (iii) For all the works, cubes to be casted during execution to verify satisfactory results. In such cases, the average cube compressive strength shall not fall below 85%. The acceptable limit is the average cube compressive strength of 75% of the designated strength for VCC (1:2:4) equivalent to **M20 mix** with recovery of difference cement content for (85%-75%). If the core strength falls below 75% of the designated compressive strength of VCC(1:2:4) equivalent to **M20 mix**, the work has to be rejected and the cost to be recovered from the GP duly initiating actions against the officers responsible up to Executive Engineer level.
- (iv) Wherever Gram Panchayat road is passing through main roads and where the traffic intensity is more than 50 CVPD the Pavement has to be designed as per the traffic intensity as per IRC:SP:62:2014 . The technical sanctioning authority has to approve the designs and design mix at his level. The mix has to be designed at District Labs/QC Labs/Government Engineering Colleges and the cement to be allowed as per actual mix design in the estimate.
- (v) 3% Administrative Charges from 13th &14th Finance Funds also has to be released on par with MGNREGS funds. Hire charges of vehicles for the Deputy Executive Engineers, PRI for the whole month to be met from this Administrative Charges instead of 15 days as being allowed now.
- (vi) The Superintending Engineer/Executive Engineer have to Check measure the works as per Govt. Memo.No.42243/Estt.I(1)/99-2 dated 09.02.2000. (a) The Superintending Engineers shall invariably check measure all the CC road works costing Rs.10.00 Lakhs and above at 1/3, 2/3 stage of work and before final payment and his check measurement shall cover not less than (30%) of the total expenditure incurred each time.(b) The Executive Engineers shall invariably check measure all the works costing Rs.5.00 Lakhs and above and his check measurement shall cover not less than (30%) of the total expenditure incurred each time.(c) A certificate to that extent that check measurements have been carried out by the Superintending Engineers/Executive Engineers shall invariably be recorded at the time of making payment duly giving reference to the M.Book.
- (vii) As this is a massive program covering huge number of works, the Deputy Executive Engineer who check measure the work are permitted to issue Quality Control Certificate for that particular work for payment purpose. The regular QC officials have to inspect the works at random, not less than 10% of the works in a Mandal.
- (viii) Guidelines were issued to adopt CC roads with interlocking precast concrete blocks of 80mm thick over a sand bed of 50mm thick ( IS: 15658:2006) based on the availability of water and prevailing local conditions also. For the roads having width equal to or less than 3.0mts and for the dead end pavements, this type of construction can be adopted for at least a length of 2.0Km per district adopting 25mm thick sand over hard bed.

7. The Officers in the address entry are, accordingly, directed to take necessary action to implement the procedure mentioned above.

Dr.K.S.JAWAHAR REDDY  
PRINCIPAL SECRETARY TO GOVERNMENT

To  
The Engineer-in-Chief, Panchayat Raj, Andhra Pradesh, Hyderabad.  
All the District Collectors in the State  
All Superintending Engineers, Panchayat Raj in the State  
Copy to:  
The Commissioner, PR& RD  
The Technical Advisor to Government, PR&RD Department  
The Director General, Vigilance & Enforcement, Andhra Pradesh  
The OSD to M(PR&RWS)  
The PS to Principal Secretary (PR&RWS).  
The PS to Special Chief Secretary (Rural Development)  
Sc/Sf

Endt no: NCS/DEE/MGNREGS/CC roads/2015  
//FORWARDED BY ORDER//  
dt: 28-1-2016.

*[Signature]*  
SECTION OFFICER

Copy communicated to all SE's & EE's, PE, PRI, PIU for taking further necessary action.

To  
All SE's, EE's, PE,  
PIU, PRI in the State.

Halleru  
28/1/16  
o/c JUCE, PR, M&RWS  
28/1/16