

GOVERNMENT OF ANDHRA PRADESH
ABSTRACT

1.00 below of above
30% of work of above

I & CAD Department Strengthening of Quality Control Recommendations of Advisor (Quality Control) on road works Engineering Departments Instructions Orders Issued.

IRRIGATION & CAD (PW QC & IWS) DEPARTMENT

G.O.Ms.No.84

Date: 8-8-2000.

Read the following:-

Sub:- From the Advisor (Quality Control) C.No.232/Adv(QC)/99, Dt.28.11.99 FA.I GA (QC) Department through C.S to Government No.8460/CSP/Com/ Dt.1.12.99.

ORDER:

Adviser to Government (Quality Control) of Andhra Pradesh has furnished certain findings on road works relating to Engineering Departments and also made some specific recommendations for improving the quality of works in all the Engineering Departments through the reference read above.

2. The findings inter alia in Irrigation department relates to Canals, Embankments and structures. Based on the recommendations of the Advisor, the Government after Consideration the various issues Involved, hereby order the following measurements for Improving the quality of works in Irrigation & CAD department which are to be strictly implemented with immediate effect.

- i) In order to assess the thickness of each layer of metal in the water bound macadam as well as the Quality of metal available, an area of 0.5 x 0.5 metal to the full depth of the road is to be cut open.
- ii) The payments of contractors are to be released based on the actual quantity of metal and gravel, which have gone into the compacted thickness of the WBM road.
- iii) In the event of the metal that is being used on WBM roads is found to be oversized and still allowed to be used by the Superintending Engineer, concerned the tender rate should be correspondingly reduced and this clause should be applicable to the graded metal also.
- iv) For new works to be executed hereafter the specified thickness and quality may be followed strictly. A maximum of 10% variation may be allowed in respect of 11ess thickness and less quality off bituminous layers. In respect of less thickness and less quantity in gravel base and WBM layers, a maximum tolerance of 20% may be allowed and anything beyond that must be rejected as is being followed at present in Roads and Buildings Department. In respect of recoveries, up to 10% estimate cost is to be recovered and from 11% to 20%, one and half times of estimate value may be recovered.

v) The fact regarding, inspection of the works before technical sanction by the authority who accords technical sanction, as per G.O.ms.No.192, PWD (X) Department, Dt.14.5.97 shall prominently be noted.

vi) Head of Department and Superintending Engineers should issue Inspection notes on any work inspected by them. Heads of Departments shall inspect at least 10 works in a month and the Superintending Engineers 20 works every month. They shall report in their inspection notes about the men, machinery and material available at the work spot including the progress of work physical and financial outlays, any back lot etc., Quality Control tests also shall be conducted and recorded in the Inspection notes as well as site registers.

- vii) A uniform procedure of Superintending Engineers according metal spreading permission for road works costing more than Rs.10.00 Lakhs in all the Departments may be adopted. For works costing less than Rs.10.00 Lakhs the Executive Engineer can be empowered to issue spreading permission after taking premeasurement of stacks, Full quality of material as per standard and relevant code should be stacked by the side of roads, check measured by S.E.'s/E.E.'s and then only spreading permission should be given.
- viii) All the Superintending Engineers shall invariably check & measure all the works costing Rs.50.00 Lakhs and above, at 1/3rd, 2/3rd stage of work and before final measurements, his check measurement covering not less than 30% of the total expenditure incurred each time. Similarly all the executive engineers shall invariably check measure all the works costing Rs.5.00 Lakhs and above, his check measurement covering all the major items not less than 30% of the total expenditure incurred each time. A Certificate is that extent that check measurements by S.E., / E.E., have been conducted, executed of outshell invariably be recorded at the time of making payment duly giving reference to the M.Book.
- ix) All the construction of Engineers viz., E.N.C., C.E., S.E., E.E., Dy.E.E./A.E.E. should invariably check the quality of works including the quantity required and materials such as cement, steel, sand, metal etc., during their inspections check up the progress of works as per programme. This will avoid scope of claim leading to arbitration. All the Inspecting Officers shall invariably sign in the connected registers being maintained at the work site. All the E.E.'s incharged of quality control operations shall ensure establishment of laboratories with minimum equipment at work sites of all the major work. The S.E.'s and E.E.'s of Quality Control shall be held personally responsible in ensuring correct quality of works as per G.O.Ms.No.23, & CAD Department, Dt.5.3.1997.
- x) For Building, Bridges, Canal Tank etc., a History Book should be maintained in which all the repairs, improvements etc., (along with the component of work) carried out should be put down to avoid duplication of work shall record.
- xi) The Advisor (QC) is vested with the power of drafting the services of any Engineer from the department. Specific requisition to facilitate free fail and effective inspection of fraudulent works.
3. These orders will come into force with immediate effect.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

P.K.AGARWAL,
SECRETARY TO GOVERNMENT