



**WESTERN ODISHA DEVELOPMENT COUNCIL, ODISHA  
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Letter No. 8888 /WODC

Date. 30.09.23

From:

Dr. Ajit Kumar Mishra,  
Chief Executive Officer.

To

The Collector, Angul/ Balangir/ Bargarh/ Boudh/ Deogarh/ Jharsuguda/ Kalahandi/  
Nuapada/ Sambalpur/ Subarnapur and Sundargarh.

Sub: Comprehensive guideline for quality control, inspection of Cement Concrete roads-  
reg.

Madam/ Sir,

With reference to the subject cited above, I am directed to communicate herewith the comprehensive guideline for quality control, inspection of Cement Concrete road projects under WODC Grant and request you to communicate the same to the executing agencies with a direction to scrupulously follow the guideline while execution of the Cement Concrete road projects under WODC Grants.

Yours faithfully,

  
30/9/2023  
Chief Executive Officer

Memo No. 8889 /WODC

Date 30.09.23

Copy to the OIC, WODC District Office, Angul/ Balangir/ Bargarh/ Boudh/ Deogarh/  
Jharsuguda/ Kalahandi/ Nuapada/ Sambalpur/ Subarnapur and Sundargarh for information  
and necessary action.

  
30/9/2023  
Chief Executive Officer

Comprehensive guideline for quality control, inspection of Cement Concrete roads

It is seen that, Hon'ble M.Ps. /MLAs/ Expert Members (WODC), President Zilla Parishads are pressing hard to take up cement concrete road from WODC funding. It appears to be a popular demand while we know that the genuine demands of the people are met. It is important that, the quality and workmanship of the work should be maintained. There should not be any laxity in these. Accordingly the following procedure should be maintained in execution of cement concrete roads.

- (a) The width of the road shall be 3.0 to 3.5 meters with expansion joint at each 5 meters interval.
- (b) The grade of concrete during casting of should be of C.C. (1:3:6) (metal concrete) & C.C. (1:2:4) (chips concrete) with approved thickness and should be machine mixed, plate vibrator shall be used for compaction. Without above, no casting of concrete should be executed.
- (c) If the length of the road is more than 100 meter, then 8-10 tons roller shall be used for compacting the sub-base.
- (d) Efforts should be made for 3% cambering of the road.
- (e) Minimum seven days curing for the concrete road shall be done and the concerned AEE/ AE/ JE/ GPTA has to ensure it.
- (f) The concerned AEE/ AE/ JE/ GPTA shall verify the site personally and accordingly prepare the drawing & estimate of the concrete road as per the approved proposal.
- (g) During casting of concrete, the concerned AE/ JE/ GPTA shall be personally present on the work site and as per his/her direction mixture of concrete should be done.
- (h) The AEE/ AE of Blocks shall visit at least once during execution of concrete road casting of C.C. (1:3:6) & C.C. (1:2:4) & should ensure quality & workmanship.
- (i) Slump test to be done as site for workability.
- (j) Cube tests 7 days & 28 days strength are to be done & test results should be produced during visit of WODC Technical Officials. Accordingly 150 x 150 x 150 mm cubes samples should be collected & tested in laboratory.
- (k) Core cutters are to be used for post strength analysis for honey comb & compressive strength.
- (l) NDT (Non-destructive tests) are to be done by rebound hammer for asserting the post compressive strength.

  
31/9/2023  
Chief Executive Officer  
Chief Executive Officer  
Western Odisha Development Council