

OFFICE OF THE ENGINEER-IN-CHIEF (P & D)

DWR (ODISHA), BHUBANESWAR.

NO. 29.4243 5/2015; 1188/WE Dtd. 13.1.15

From,

Er. T. Sahoo,

Engineer-in-Chief (P & D).

To,

The Chief Engineer,

Minor Irrigation (Odisha),

Bhubaneswar.

Sub.: Procedure for Selection, Design and Construction of Check Dams

Sir,

After due scrutiny it has been found that there is no site specific guideline being followed during construction of check dams .Hence the updated procedure (enclosed) in regard to Selection, Design and Construction of Check Dams should be meticulously followed.

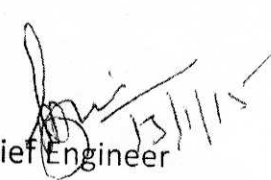
Encl.: -As. above

Yours faithfully,

OFFICE OF THE CHIEF ENGINEER: MINOR IRRIGATION
ODISHA: BHUBANESWAR.  Engineer-in-Chief (P & D)

Memo No.: 418 Date: 13.01.15

Copy along with enclosure forwarded to all Superintending Engineers of Minor Irrigation Circles and all Executive Engineers of Minor Irrigation Divisions for information and necessary action.

 Chief Engineer

Procedure for Selection, Design and Construction of Check Dams

1. The Asst. Executive Engineer/ S.D.O. will visit the site personally after getting the proposal from Junior Engineer/ Assistant Engineer and contact the members of existing Pani Panchayat/ Villagers/ beneficiaries regarding construction of Check Dams at the proposed sites and the proposals will be submitted to the concerned Executive Engineers along with all site investigation data such as index map indicating catchment with longitude and latitude and ayacut in the coloured Topo sheet in the scale 1:50,000, L.S. & C.S. of the nala at the proposed site, observed H.F.L. from local enquiry, and trial pit data of soil.
2. The Executive Engineer will personally visit the site to verify the suitability of the location for the proposed structure and availability of water till the end of February and furnish a certificate as prescribed below along with all detail supporting calculations.

“This is to Certify that I have personally visited the site and found the followings:

- a) The site is suitable for the proposed structure.
- b) There will be no out flanking with the existing embankment under design flood condition.
- c) Water will be available in the stream at least till the end of February.
- d) The proposed structure will not cause submergence of any private land”.

Since creation of irrigation potential is one of the objectives of Check Dams, while deciding the ancillary components of the structure such provisions viz. excavation of channels and control structure therefore be made in order that the water available can economically be utilized for irrigation.

The proposals for check dams along with all certificates mentioned above along with drawing, design and location (marked on Village sheet and Index map) with all other existing and proposed structure in the U/S & D/S on the same nallah will be submitted to the concerned Superintending Engineer.

3. The Superintending Engineer after receiving the proposal will visit the sites personally and study the suitability of the structure if compatible with the data submitted by concerned Executive Engineer.

The hydrological design, computation of flood, structural design and stability of the proposed structure under different expected load combinations are to be checked and

approved by the Superintending Engineer. The design, drawing and all detail supporting calculations along with the certificate in the prescribed format given below will be submitted to the Chief Engineer for necessary scrutiny and accordance of approval.

“Certified that I have visited personally the proposed site of Check Dam and verified the parameters and found that the site is suitable for construction of Check Dam”.
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4. The Superintending Engineer (Design) will check the suitability of each proposal as per the codal provision for hydrological and structural viability and put up to Chief Engineer with recommendation.
5. Chief Engineer will verify the proposal and submit to E.I.C., (P&D) for approval of location.
6. Chief Engineer will accord A.A. after getting approval of the location by E.I.C. (P&D)
7. After accordance of A.A. the project will be taken up for execution.

Sd/-
Engineer-in-Chief (P&D)
