

CIRCULAR

Various divisions in this Wing write design reports in their own style with different serial arrangement, varying degree of emphasis on different aspects of the design and often certain aspects mentioned in the design report of one division may not find a place in the design report produced by another division, simply because traditional style of presentation of two divisions may not be the same.

To avoid this lack of uniformity and undesirable omission of various important design aspects the design report format has been standardised as shown in the Annexure enclosed. All divisions are requested to observe format. If any special aspect is not mentioned in the standard proforma the same may please be brought to the notice of the undersigned at the time of submission of design. Standard proforma enclosed may not necessarily be perfect but an attempt to evolve so called perfect solution could be so long drawn out has never come to the surface. Therefore fair solution is offered for immediate implementation. Suggestions for improvements are welcome.

*All SDEs to  
pt. note  
a  
3/3*

D.A. As above |

O. C. signed by S. E. (G.)

*[Signature]*  
24/3/82  
( T.G. Ratnaparakhi )  
Superintending Engineer (Gates)

No. SE/G/1/ 818  
C.D.O. Nasik

29/3/82

To

The Executive Engineer, Designs Division (GO.I), (GO.II), (GO.III), (GO.IV), (CS.I), (PL.III)

C. D. O. UNIT-G. O. I.

Inward No.....172.....

Designs Report Writing - for General Layout

Name of Project :-

Name of Dam :-

Designs Report of - Level Irrigation Outlets.

1. Salient features:-

All the features as per statement No. 1 attached should be included in the body of the text.

2. Main features of the Layout.

This layout pertains to the outlet(s) at ch      -  
in MDN No.      -      -      -      -      -      . The C/C distance between the outlets is      -      -      -      -      m. (OF/NOF/ED/hill flanks portion to be mentioned).  
The opening size is      -      -      -      -      -      by      -      -      -      -      with a maximum discharge capacity of      -      -      -      -      cumecs.

2.1 The outlet is located in the ED/NOF/OF/Independent Saddle/at ch.      -      -      -      -      . The outlet is high/low head type, the maximum static and operating heads being      -      -      -      -      and      -      -      -      -      . Its special features are as follows. (Give features if any).

2.2 : Control levels of the outlet system are as follows:

M.W.L.

F.R.L.

M.D.D.L.

Canal F.S.L.

Discharge.

Comments on controlling levels:

a) Sufficiency of MDDL and canal F.S.L.

b) Relation between MDDL and sill of outlets.

2.3: How discharge per outlet is fixed?

2.4 How gate size is fixed?

2.5 How conduit bed slope and size are fixed?

2.6 Comments on provision of E.D.A.

2.7 Comments on hoisting arrangement and capacity of hoists etc. for Emergency Gate and Service Gate - whether hoist chamber is provided or whether drywell with breast wall is provided.

2.9 Handling and installation arrangement for E.G. and S.G.

3. Special features of the design.

3.1 Speciality of gate structure and entrance structure.  
(Bonnet type, etc.)

3.2 Speciality of location.

3.3 Speciality of E.D.A. (Jet dispersion, cascades, and unconventional arrangements).

3.4 Hoist mechanism & closing time etc.

4.0 Design Assumptions : (may go as an appendix)

4.1 Detailed properties assumed.

4.2 List of supporting Indian standards.

4.3 Design conditions and parameters:

used for design of

i) Conduit Bell mouth.

ii) Conduit Box.

iii) E.G. Gate slot.

iv) S.G. Gate slot.

v) Hoists.

vi) E.D.A.

vii) Gates.

6. Storage Details

A) Gross Storage

B) Live Storage

C) Dead storage upto R.L.

7. Control Details

A) Top of Dam.

B) M.W.L.

C) F.R.L.

D) MDDL for Irrigation

E) Outlet sill level

F) Lowest River R.L.

G) Silt Level.

8. Canal Details

A) C.B.L. at start.

B) F.S.D.

C) Bed width.

D) Side slopes

E) Lined or unlined

F) Bed gradient

9. Total Irrigable area

A) Total Area

B) G.C.A.

C) I.C.A.

10. Max. Canal Discharge

A) Kharif

B) Rabi

C) Hot weather.

Statement No. 1.

Salient features

Sr. No.	Heads	Subheads.
1.	Name of the Project and Dam	
2.	Name of the river	
3.	Location of the Dam.	
4.	Catchment Area at Dam site	
5.	Details of Dam	A) Type of Dam B) Max. height of Dam. C) Length of Dam D) Type of spillway.
6.	Storage Details	A) Gross Storage B) Live Storage C) Dead storage upto R.L.
7.	Control levels.	A) Top of Dam. B) M.W.L. C) F.R.L. D) MDDL for Irrigation E) Outlet sill level F) Lowest River R.L. G) Silt Level.
8.	Canal Details	A) C.B.L. at start. B) F.S.D. C) Bed width. D) Side slopes E) Lined or unlined F) Bed gradient
9.	Total Irrigable area	A) Total Area B) G.C.A. C) I.C.A.
10.	Max. Canal Discharge	A) Kharif B) Rabi C) Hot weather.