

INSPECTION NOTE

INSPECTION OF PENCH DIVERSION PROJECT BY E-IN-C, W.R.D., ON DATED 21 & 22.11.2016

- (1) **Inspecting Officer** - **Engineer-In-Chief**
- (2) **Name of Work** - **Pench Major Project, LBC & RBC**
- (3) **Date of Inspection** - **21/11/2016 & 22/11/2016**

(4) **OFFICERS PRESENT**

- | | | |
|----|----------------------------|-------------------------------|
| 1) | Chief Engineer | Shri Gajadhar Sunaiya |
| 2) | Superintending Engineer | Shri P.N. Gour |
| 3) | Executive Engineer, Canals | Shri Rajeev Phirke |
| 4) | Executive Engineer, E&M | Shri Koshta, HEM,
Balaghat |

Pench Diversion Project is a Major Project. The Dam is situated in Chhindwara district. The River closure has been done in the year 2016. The present inspection is specifically concerned with the start of Rabi Irrigation in LBC and RBC of this project.

The Left Bank Main Canal is through upto R.D. 13515. Beyond R.D. 13515 m upto R.D. 16410 m, rock excavation of approximately 2 lakh cum is balance. The present efforts are to cross this problematic reach by reducing the quantities and allowing the water in the downstream in minimum time period. Based on the information provided at site, for this purpose, about 40000 cum excavation, which is mostly hard rock, is required. In a length of 350 m about 6 m, in 20 m length 3 m and in 70 m length 2 m cutting in depth is balance. Some small patches, ramps etc. are also there.

From RD 15000 m upto 16410 m of LBC, about 70,000 cum excavation, mostly earthwork is balance.

The works, as elaborated above were agreed with MASS INFRA. But due to slow work part withdrawal of these works was done. Now from RD 13515 to RD 14250 VSC is doing this work at MASS INFRA rate. Similarly from RD 14250 m to 15000 m, Sarla is doing this work. From RD 15000 m to 16410 m departmental machines are being deployed to clear this reach. Various points as observed during canal inspection are as under:-

- (1) After the problematic reach, main canal lining starts from 16410 and is lined upto 20.07 KM (Tail of main canal).
- (2) Deposits in the bed in upstream of 18300 m super passage and downstream of 17600 Road Kapurdha - Dungaria road bridge to be cleared.
- (3) From RD 19000, to RD 19155 m lining is to be done. (Seoni - Chhindwara road to Kapurdha Road)
- (4) Sarla Bifurcation connection to Bakhari Branch Canal is to be done on priority.
- (5) Sarla Montana Seoni branch canal connection is also to be completed.

BAKHARI BRANCH CANAL :

- (6) This year Rabi - Bakhari target 12500 / 14500 ha is planned.
- (7) 1 R (210 ha) work yet not started. HR built.
- (8) 2 R HR to be built (570 m) No structure.
- (9) 3 R (680) Gate to be fixed.
- (10) No colaba should be fixed above (CBL+30 CM) of parent channel.
- (11) KM 5.20 Aqueduct on Nalla, Upstream of this one DO is required.
- (12) Temporary bunding, VRB Machiwada Surjan KM 5.050 to be removed.

- (13) Write Structure details on Upstream and Downstream, block size Length 45 cm, Height 30 cm white background and black letters. (Time limit 20/12/2016)
- (14) KM 6.473 DO 45 ha. structure to be constructed.
- (15) 7.6 KM HR built, canal not built. Cultivators want canal along the bunds.
- (16) Provide DO at about 8.00 KM
- (17) At RD 9200 m provide, one outlet on left side of command.
- (18) RD 9940 m - 9 R (400 ha) earthwork done. Structures to be built.
- (19) RD 10180 material from bed of canal to be removed.
- (20) Bed lining dismantled, to be restored at RD 10430 upstream of Piparia Aqueduct.
- (21) One outlet on left side RD 10600 m is required.
- (22) DO at 11040 m (35 ha) Gate not fixed.
- (23) Aqueduct RD 12400 m, transition and lining is incomplete. Boundary of Chhindwara - Seoni district.
- (24) Canal bed throughout is full of stones, these should be removed.
- (25) 14 R RD 14700 m, HR not built.
- (26) 16/18 structures completed.
- (27) Syphon or superstructure is required or diversion is required at RD 15800 m.
- (28) Minor 15R RD 16280, minor (420m) 54 ha.
- (29) Minor 16R RD 16430, 630 m - 97 ha.
- (30) Minor 71R RD 17.68 KM length. 2.12 KM Area 224 ha.

- (31) In a length of about 30 m lining is to be done.
- (32) Concrete steps at VRB in the upstream. Rise 15 CM tread 30 CM
- (33) Bakhari Branch canal system seen upto RD 180005 M.

MAIN CANAL LBC 0 onwards

- (34) Drainage Syphon is required at RD 3450 m
- (35) Cross cum escape 8130 m

ON 22/11/2016

- (36) Outsourcing for maintenance of Rest House front garden.


RBC Main Canal

- (37) Loose boulder at RD 4230 m are dumped on canal slopes. May obstruct flow. About 150 cum boulders are there on canal slope.
- (38) Foot bridge at 4550 m to be fixed.
- (39) Distribution network is with Mantena, poor progress.
- (40) RD 7860 m toe wall on CD to be completed. Sensitive point needs constant vigil, village Jhilmill.
- (41) Wild growth on left and right main canal be cleared by 5 KM piece work on both the canals. After completion of first 5 KM, next 5 KMs be sanctioned complete work upto 10/12/16.
- (42) Railway crossing is at 9240 m. Top lift is being laid.
- (43) RD 4670 foot bridge is required for village Paldi (tola)
- (44) RD 16170 CD is chocked. Check waterway. There is technical problem. Increase headwall upstream complete chock of design and drawing is required.

- (45) RD 16410 Escape cum cross Regulator.
(46) RD 16835 Road bridge (Seen upto this structure)
(47) Gauge should be reported of VRB at RD 1385 of RBC and VRB at RD 210 of LBC.

Bakhari Branch 21.38 KM onward.

- (48) RD 22550 m, Super passage is required.
(49) RD 23790 m inletting to be stopped.
(50) RD 24100 m lining below VRB to be repaired. Pipe to be laid in diversion channel.
(51) RD 25450, super passage one side wall is incomplete.
(52) RD 28950 Kothia Distry 4800 ha length 14500 m. is almost complete.
(53) RD 31050 m seen upto this point.



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Engineer in Chief,
Water Resources Department,
Bhopal (M.P.)

Endt. No. 349119/SE (works). Bhopal, Dated: 29 Nov., 2016

Copy is forwarded to:

1. The Principal Secretary, GOMP, Water Resources Department, Bhopal.
2. Chief Engineer, Wainganga Basin, WRD, Seoni.
3. Superintending Engineer, Pench WR Circle, Chhindwara
4. Superintending Engineer, Water Resources Circle, Raigarh
5. Superintending Engineer, Major / Admn., E-in-C office.
6. Executive Engineer, Pench Diversion Dam Division, Chourai Singna.

7. Executive Engineer, Pench Diversion Canal Division, Chourai Singna.
8. Executive Engineer, Hiran WR Division, Jabalpur.
9. Executive Engineer, E&M Division, Chourai Singna.
10. Web Manager, WRD for ONLINE feeding.


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