

**The Haryana Pond and Waste Water Management Authority
(HPWWMA)**

Bays No.39 & 40 (Basement), Block-B, Sector-4, Panchkula-134112

E-Mail: ms.haryanapondauthority@gmail.com

Memo No.-3986-4007 /Pond/2019

Date: 01.03.2019

To

1. Superintending Engineer, SYL Circle, IWRD, Ambala cum DPMO of District Ambala
2. Superintending Engineer, BWS Circle, IWRD, Kaithal cum DPMO of District Kaithal
3. Superintending Engineer, BWS Circle, IWRD, Hisar cum DPMO of District Hisar
4. Superintending Engineer, BWS Circle, IWRD, Fatehabad cum DPMO of District Fatehabad
5. Superintending Engineer, BWS Circle, IWRD, Sirsa cum DPMO of District Sirsa
6. Superintending Engineer, HKB Circle, IWRD, Jagadhari cum DPMO of District Yamunanagar
7. Superintending Engineer, Workshop Circle, IWRD, Karnal cum DPMO of District Karnal
8. Superintending Engineer, YWS Circle, IWRD, Jind cum DPMO of District Jind
9. Superintending Engineer, YWS Circle, IWRD, Bhiwani cum DPMO of District Bhiwani
10. Superintending Engineer, YWS Circle, IWRD, Sonapat cum DPMO of District Sonapat
11. Superintending Engineer, YWS Circle, IWRD, Faridabad cum DPMO of District Faridabad
12. Superintending Engineer, YWS Circle, IWRD, Rohtak cum DPMO of District Rohtak
13. Superintending Engineer, JWS Circle, IWRD, Jhajjar cum DPMO of District Jhajjar
14. Superintending Engineer, LWS Circle, IWRD, Bhiwani cum DPMO of District Charkhi Dadri
15. Superintending Engineer, JLN Circle, IWRD, Narnaul cum DPMO of District Mahendergarh
16. Superintending Engineer, JLN Circle, IWRD, Rewari cum DPMO of District Rewari
17. Executive Engineer, WS Division, IWRD, Panchkula cum DPMO of District Panchkula
18. Executive Engineer, WS Division, IWRD, Kurukshetra cum DPMO of District Kurukshetra
19. Executive Engineer, WS Division, IWRD, Panipat cum DPMO of District Panipat
20. Executive Engineer, WS Division, IWRD, Gurugram cum DPMO of District Gurugram
21. Executive Engineer, WS Division, IWRD, Palwal cum DPMO of District Palwal
22. Executive Engineer, WS Division, IWRD, Nuh cum DPMO of District Nuh

Subject: Check list regarding preparation of estimates/DPRs on the part of IWRD for ponds.

This is in continuation to the earlier sent Memo No. 3165-3186/Pond/2019 dated 31.01.2019, vide which a check list was circulated for your consideration while preparing the estimates/DPRs on the part of PR-PW.

Further it is intimated that the Estimates/DPRs regarding filling and de-watering works of ponds, which are carried out by IWRD, are also being received in this office from IWRD, in which various shortcomings/discrepancies have come to light after scrutinizing them as received from some of the Districts.

It is, therefore, requested that the following check list may also be kept in mind before submitting the estimates to this office in future.

Check list for the estimates/DPRs of IWRD part

1. The recommendation of SE/Xen-cum DPMO on the final Abstract of cost is required prior to its submission to this Authority.
2. The detailed calculations about actual Discharge of waste water entering into the pond should be attached with the estimate.
3. The abstract of the pond data under 58 columns as available on PDMS should be attached with the estimate. (i.e. containing location and other details of the pond)
4. The dimensions and nomenclature of all the components taken in the estimate as well as drawing should be indicated properly.
5. The computerized drawings should be submitted on A2 size paper.
6. The drawings should include the cross-sections & L-section for laying of the gravity mains/pipelines/rising mains, inlet channels, water courses etc.
7. The report pertaining to the rough-cost estimate/DPR should be prepared cautiously by an officer of the level of Executive Engineer.
8. The discharge & velocity should be mentioned on the L-section of pipelines/gravity mains.
9. The spacings between 2 successive 'houdis' should be kept in the range of 150-200 meters.
10. The drawings of site plan should be duly signed by the concerned SE/Xen-cum-DPMO.

11. The 'Check Certificates' recorded by the concerned JE/SDO should be submitted along with the estimates/DPRs.
12. The level details of inlet & outlet should be indicated/ mentioned along with the estimate. The spring level of the area near the pond site should also be indicated.
13. The feasibility of adopting HDPE pipeline instead of DI pipe for the rising main may also be explored keeping in the design formula given in Water Supply manual for determining the economical size of pipe.
14. The inlet channel for filling of pond & outlet channel for spilling-out the surplus water should be connected by the shortest possible distance along a public path/ road up to the pond wherever feasible.
15. The design of pipeline for gravity main or economical size of rising main (whichever is used or in case both are proposed) should be attached with the estimate.
16. The design of pumping machinery for the pumping of raw water/ pond water should be attached with the estimate i.e. discharge and head of the pump and bhp of its prime mover.
17. The feasibility of carrying the pipeline through underground instead of carrying it over pillars i.e. over head for gravity main should be explored to avoid too much expenditure and to avoid likely occurrence of damages from the miscreants.
18. The velocity adopted for pipeline of gravity main should not be less than 0.6m/sec (2 feet/sec) and for pipelines proposed for rising main should be in the range of 1 to 3 m/sec for serving the purpose of self cleansing of pipes and avoiding cavitations problem in the pipes.
19. The units of all the parameters taken in the design calculations should be mentioned properly and preferably in MKS/SI units.
20. The hydraulically most efficient rectangular section should be adopted wherever required for which the width of section is twice of its depth and the hydraulic radius is half of the depth of flow.
21. The hydraulically most efficient trapezoidal section should be adopted wherever required for which the hydraulic radius is half of the depth of flow, one of the sloping sides (wetted length) should be equal to half of the top width of channel and side slopes is to be kept 60° to the horizontal.
22. The RCC pipes for inlet & outlet of the ponds must be adopted as NP-2 type unless otherwise, it is approved in any specific case.

In addition to the above, sample drawings of model pond of village Keorak, District Kaithal are also being enclosed herewith, which should be followed while preparing the estimates/DPRs of the Ponds, in view of the components as mentioned therein.

DA/ Drawings of model pond of Village Keorak of District Kaithal.

Member Secretary
HPWWMA, Panchkula

Endst. No. 4003-4015 /Pond/2019

Dated: 01/03/2019

A copy of the above is forwarded to the following for information:

1. Engineer In-Chief, IWRD, Sinchai Bhawan, Sector 5, Panchkula
2. Chief Engineer, BWS Unit, IWRD, Sinchai Bhawan, Sector-5, Panchkula
3. Chief Engineer, YWS(N) Unit, IWRD, Sinchai Bhawan, Sector-5, Panchkula
4. Chief Engineer, LCU Unit, IWRD, Sinchai Bhawan, Sector-5, Panchkula
5. Chief Engineer, Const, IWRD, Sinchai Bhawan, Sector-5, Panchkula.
6. Chief Engineer, Project & Material, IWRD, Sinchai Bhawan, Sector-5, Panchkula.
7. Chief Engineer, YWS(S) Unit, IWRD, 3, Sham Nath Marg, New Delhi
8. Chief Engineer, PR-PW, Plot No. 3, Sector 28, Chandigarh

DA/ Drawings of model pond of Village Keorak of District Kaithal.

Member Secretary
HPWWMA, Panchkula