

TAMIL NADU WATER SUPPLY AND DRAINAGE BOARD
31, Kamarajar Salai, Chepauk, Chennai – 5.



ABSTRACT

TWAD BOARD – PROPOSAL FOR REPLACEMENT OF EXISTING MS PIPES WITH PVC PIPES BETWEEN SAYALKUDI TO SENGAPADAI AND MALATTAR JUNCTION TO KANDILAN REACHES IN NARIPPAIYUR DESALINATION PLANT OF RAMANATHAPURAM DISTRICT UNDER REVAMPING OF CWSS WITH MNP GRANT FOR 2006-2007 – APPROVAL ACCORDED – REGARDING.

(O&M) WING

B.P.MS.NO.72

DATED: 18.07.2006.

Read: Board's Resolution No.2.5 Dated: 12.7.2006.

ORDER:

The Chief Engineer/Southern Region/Madurai has submitted a proposal for replacement of existing MS pipes with PVC pipes in the following reaches of the pumping main under Narippaiyur DSP (Maintained by TWAD Board) at a total cost of Rs. 150.16 Lakhs, to avoid Colouration in the permeate water (Product Water) supplied from the DSP and has requested approval to carryout the above works under " Revamping of CWSS " for the year 2006-07.

Sl.No.	Description of Location	Existing Pipes	Proposed Pipes	Length in K.M.	Estimate Cost (Rs. in Lakhs)
1.	Sayalkudi– Sengapadal Reach	MS Pipes of sizes 250, 200 and 150 mm	PVC Pipes of Sizes 200 & 140 mm	24.955	85.66
2.	Malattar Junction to Kandilan Reach	MS Pipes of sizes 250, 200, 150 and 100 mm	PVC Pipes of Sizes 200 140 and 110mm	17.830	64.50
Total:-				42.785	150.16

As per Powers delegated vide B.P.No.27/Dated: 5.2.2002, this proposal requires Board's Administrative Approval, as it exceeds Rs. 100.00 Lakhs.

Narippalyur DSP providing water supply to 296 habitations was commissioned on 25.6.1999 and since then maintained by TWAD Board.

Within a short period of commissioning, the water received at various habitations were found colourish. The consultant M/s. CECRI after detailed analysis has informed that the colouration is due to presence of high Chloride ions and that this has also resulted in corrosion of MS Pipes. To avoid colouration, M/s. CECRI suggested to replace the MS Pipes in existing pumping main of Phase -I with PVC nature of pipes and the same was confirmed by IIT, Chennai.

At the First Instance, approval was accorded during 3/2005, for replacement of MS Pipes with HDPE and PVC pipes in the initial reach of Narippalyur to Sayalkudi for a total length of 13.12 K.M. at a total cost of Rs. 95.50 Lakhs. This work is nearing completion. The Superintending Engineer, Sivagangai - Ramnad Circle, Sivagangai, has now reported that this water received at Sayalkudi Over Head Tank (through the pipes replaced in the above reach) is crystal clear and colourless.

A separate reach of 13 KM of PVC Pipe line originally laid during the commissioning of the DSP during 1999, also yields water without colouration.

In respect of the new proposal for replacement of MS pipes for a length of 42.785 KM, M/s.CIPET, was also consulted and have recommended that PVC or HDPE Pipes are suitable to avoid colouration problem and that PVC pipes are more economical.

The Regional Technical Committee has cleared this new proposal. Budget allocation for the present proposal has already been earmarked under Revamping of CWSS with MNP Grant for the year 2006-07.

On Scrutiny of the proposal, the cost works out to Rs. 126.57 Lakhs. The Chief Engineer, Southern Region, Madurai, has reported that MS Scrap pipes can be disposed off for a value of Rs.69.41 Lakhs, after the replacement of pipes is over.

This new proposal for replacement of MS pipes for a total length of 42.785 KM with PVC Pipes at a total cost of Rs. 126.57 Lakhs has been placed before the Board, in its meeting held on 12.7.06.

The Board in its Resolution No.2.5 Dated: 12.7.06 has resolved after careful consideration, to accord approval for the proposal for replacement of MS pipes with PVC Pipes from Sayalkudi to Sengapadai Reach and Malattar Junction to Kandilan Reach for a total length of 42.785 KM in Narippalyur Desalination Plant at a total cost of Rs. 126.57 Lakhs under Revamping of CWSS during the year 2006-07 with MNP Grant.

The Board resolved further, to permit the Chief Engineer, Southern Region, Madurai, to dispose off the retrieved MS Scrap pipes, after replacement with PVC pipes under Narippalyur DSP water supply scheme by conducting E. Auction.

Accordingly, approval is accorded for the proposal for replacement of the MS Pipes with PVC Pipes from Sayalkudi to Sengapadai Reach and Malattar Junction to Kandilan Reach for a total length of 42.785 KM in Narippaiyur Desalination Plant at a total cost of Rs. 126.57 Lakhs (Rupees One Hundred and Twenty Six Lakhs and Fifty Seven Thousands only) under " Revamping of CWSS during the year 2006-07 with MNP Grant ".

Further, the Chief Engineer, Southern Region, Madurai is also permitted to dispose off the retrieved MS Scrap Pipes, after replacement with PVC pipes under Narippaiyur DSP Water Supply Scheme, by conducting E. Auction.

The Chief Engineer, Southern Region, Madurai, is requested to accord Technical Sanction for the above said Revamping proposal and carryout the Revamping works, duly following the Tender procedures and other rules and regulations of TWAD Board.

(BY ORDER OF THE BOARD)

Sd/-Swaran Singh, 18.07.2006.
Managing Director, TWAD Board.

TO

The Chief Engineer, TWAD Board, Southern Region, Madurai
Copy to the Superintending Engineer, TWAD Board, Sivagangal – Ramnad Circle, Sivagangal, for information and taking necessary action.
Copy to the Executive Engineer, TWAD, DSP Division, Ramnad, for necessary action.
Copy to P.C. to Managing Director, TWAD Board, Chennai-5.
Copy to P.C. to Engineering Director, TWAD Board, Chennai-5.
Copy to P.C. to Finance Director, TWAD Board, Chennai-5.
Copy to All Joint Chief Engineers of TWAD Board, Head Office, Chennai-5.
Copy to Deputy Chief Engineer (O&M)/TWAD Board/Chennai-5.
Copy to the Chief Accounts Officer of TWAD Board, Chennai-5.
Copy to the Chief Audit Officer of TWAD Board, Chennai-5.
✓ Copy to the Board Cell Section, TWAD Board, Chennai-5. (3 Copies)
Spare – 5 Nos.

//True Copy Forwarded By Order//

K. Aravind 19/7/2006.
Assistant Executive Engineer (O&M),
TWAD Board, Chennai-5.
19/7/06