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## NASHIK MUNICIPAL CORPORATION, NASHIK

Rajeev Gandhi Bhavan, Sharanpur Road, (Post Box No. 12,) NASHIK - 422 002.

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NMC/WSP/416/07  
Date - 01/11/07  
2007

### CERTIFICATE

This is to certify that M/S HNB ENGINEERINGS PVT. LTD. "HENABH CENTRE", 1326 Shukrawar Peth, Pune 411 002, has successfully completed the work of "Designing, Constructing, Erecting, Commissioning of 7.50 MLD Capacity SEWAGE TREATMENT PLANT of Conventional Activated Sludge Process at Panchak, NASHIK", on TURNKEY basis for Nashik Municipal Corporation. The plant is commissioned on July, 2004. The Plant and all Mechanical equipments installed (as listed below) are performing satisfactorily since commissioning till today. The cost of the project is Rs. 2,82,200,000 /-. The project was awarded to agency vide Work Order no. MnaPa/Bhu GYO/01/2002, dated 24/04/2002.

The plants consists the following units.

S.No	Civil Units	Mechanical Units
1.	Manual Screen Unit	"HENABH" make Coarse Screen suitable for 1.20 m wide channel ✓
2.	Influent Pumping Station 9.00 m diameter × 2.50m SWD	3 Nos Submersible Pumps, 40 HP each Duty point 312.50 m <sup>3</sup> /hr @ 19.00 m head ✓
3.	Pump House 9.00 m diameter × 4.50m height	3 Nos. Electrical Panel for above Pumps ✓
4.	Inlet / Receiving Chamber 1.90 m × 1.65 m × 3.50 m SWD + 0.60 m FB	2 Nos. "HENABH" make Pen Stock Gates ✓
5.	Mechanical Screen Channel 3.00 m × 0.75 m × 0.50 m SWD + 0.30 m FB	"HENABH" make Manual Screen suitable for 0.75 m wide channel, followed by Belt Conveyor and 1 No. "HENABH" make Pen Stock Gate at downstream ✓
6.	Manual Screen Channel 3.00 m × 0.75 m × 0.50 m SWD + 0.30 m FB	"HENABH" make Manual Screen suitable for 0.75 m wide channel and 1 No. "HENABH" make Pen Stock Gate at downstream ✓
7.	Gravity Grit Channel 9.00 m × 0.85 m × 0.68 m + 0.60 m FB	—
8.	Parshall Flume 3.00 m long × 0.60 m wide	Flow Meter with local indicator, ✓
9.	Distribution Chamber 1.20 m × 2.50 m × 3.50 m SWD + 0.50 m FB	"HENABH" make Bypass Gate ✓
10.	Primary Clarification - 2 Nos. 12.65 m dia × 3.00 m SWD + 0.30 m FB	2 Nos. "HENABH" make Central Driven Clarifier Mechanism with Double Scraper Arm suitable for 12.65 m dia × 3.00 m SWD + 0.30 m FB ✓
11.	Aeration Tank - 2 Nos. 22.00 m dia × 11.00 m × 3.00 m SWD + 0.50 m FB	4 Nos. "HENABH" make Surface Aerators each of 15 HP ✓



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S.No	Civil Units	Mechanical Units
12.	Secondary Clarifier - 2 Nos. 14.00 m dia × 3.20 m SWD + 0.30 m FB	2 Nos. "HENABH" make Central Driven Clarifier Mechanism with Double Scraper and skimmer suitable for 14.00 m dia × 3.20 m SWD + 0.30 m FB
13.	Combined Pump House with Dry Well, including Primary, Sludge Sump 4.35 m dia × 1.00 m × 2.00 m SWD  Secondary Sludge Sump 5.00 m dia × 2.50 m + 2.05 m SWD	2 Nos. Primary Sludge Pumps 5 HP each Duty Point 14 m <sup>3</sup> /hr @ 14.0 m  2 Nos. Secondary Sludge Pumps 12 HP each Duty Point 160 m <sup>3</sup> /hr @ 9.0 m
14.	Primary Digester 16.50 m dia × 6.00 m SWD + 0.60 m FB	3 Nos "HENABH" make Digester mixer each of 5 HP capacity. Gas collection, protection and Burning arrangement
15.	Secondary Digester 16.50 m dia × 6.00 m SWD + 0.60 m FB	Gas removal with safety arrangement
16.	Sludge Drying Bed - 10 nos. 13.00 m × 6.00 m × 0.30 m + 0.30 m FB	---
17.	Electrical	As required for the plant.
18.	Piping	Piping as per plant requirement including M.S. rising Main of 400 mm dia for raw sewage supply to plant and 200 mm dia CI Rising Main of 67.5, from Primary Sludge Pumps to Primary Digester.
19.	Allied units such as Roads, And. Bldg, Staff Quarters etc.	Necessary internal electrification for the Bldg & Quarter and electric poles along the road.
20.	Compound wall : 1600 rmt	---

The work is carried out in an Engineering manner to the entire satisfaction of the Department. The contractors are observed to be resourceful, knowledgeable and execute the work well planned. The certificate is issued vide company's request letter No. - 414. 29.10.7

EXECUTIVE ENGINEER  
NASHIK MUNICIPAL CORPORATION  
NASHIK