



**OFFICE OF THE EXECUTIVE ENGINEER  
JAL NIGAM YANTRIK KHAND  
U.P. JAL NIGAM MEERUT  
COMPLETION PLAN OF TUBEWELL  
(YEAR - 2014-2015)**

NAME OF SCHEME - DOODHLIWS SCHEME DISTT MUZAFFARNAGAR      SPRING WATER LEVEL BY METRS - 14.30 M  
TOTAL NO. OF TUBE WELL PROVIDED IN THE SCHEME - 100      SIZE OF BORE - 575 X 600 MM  
LOCATION OF TUBE WELL - NEAR PRIMARY SCHOOL      DATE OF COMPLETION OF T.W. - 16.01.2015  
NAME OF CONTRACTOR - M/S SHOBHA RAM PREM

DEPTH IN METER	BORING PRESENTATION	LITHOLOGICAL LOGS	EXECUTED ASSEMBLY	ABSTRACT
0.00		GENERAL CLAY		1. DRILLING STARTED ON 08.11.2014
3.10		FINE SAND		2. DRILLING COMPLETE TO 3.10
16.70		FINE MEDIUM SAND		3. COVERING ON 04.12.2014
26.21		FINE SAND		4. DRILLING DEPTH 146.04 M
32.04		LOOSE CLAY		5. 100 MM DIA. V-NOTCH PIPE 42.85 M
41.00		FINE SAND		6. 200 MM DIA. SLOTTED PIPE 0.10 M
47.24		FINE SAND		7. 200 MM DIA. SLOTTED PIPE 0.10 M
50.49		YELLOW FINE SAND CLAY		8. 200 MM DIA. SLOTTED PIPE 30.00 M
56.39		VERY FINE SAND		9. DISCHARGE BY COMPRESSOR 2000 L.P.M
66.44		MEDIUM SAND		10. DISCHARGE BY O.P UNIT 2000 L.P.M
69.93		CLAY		11. PUMPING PLANT
77.12		MEDIUM SAND		MAKE - S
89.92		YELLOW SAND		DISCHARGE - 2000 L.P.M
99.06		CLAY		HEAD - 42 M
106.10		FINE MEDIUM SAND		H.P. - 33
114.39		SANDY CLAY	COLUMN PIPES - 100 MM DIA X 38 M	
117.30		MEDIUM SAND		
139.64		FINE MEDIUM SAND		
138.80		VERY FINE SAND		
141.58				

**YIELD TEST OF T/W BY COMPRESSOR**

DATE OF TEST - 14.01.2015      STATIC W/L - 10.67 M      TASTE OF WATER . SWEET

Height Of Water	Discharge In L.p.m	SAND CONTENTS IN PPM						REMARKS
		starting	After 5 min	After 10 min	After 15 min	After 30 min	After 60min	
21.50	1773	1200	900	700	400	100	Tr.	
22.50	2022	1600	1000	800	500	200	Tr.	

**YIELD TEST OF T/W BY O.P UNIT**

(As Per IS - 2800)

DATE OF TEST - 18.01.2015      STATIC W/L - 10.67 M      TASTE OF WATER - SWEET

ORIFICE TUBE HEIGHT IN INCH	DISCHARGE IN L.P.M	SWL IN Mts	FWL IN Mts	DEPRESSION IN L.P.M	STARTING	SAND CONTENTS IN PPM					RECOMMENDATIONS
						After 5 MIN	After 10 MIN	After 15 MIN	After 25 MIN	After 30 MIN	
38.10	1810	10.67	13.92	3.25	Tr.	CL	CL	CL	CL	CL	Recommended discharge 2000 LPM at 3.40M depression
48.26	2029	10.67	14.07	3.40	50	Tr.	CL	CL	CL	CL	Pump should be run in bypass for 5 minutes before supply of water in raising main.
63.50	2300	10.67	14.22	3.55	100	Tr.	CL	CL	CL	CL	
76.20	2526	10.67	14.32	3.65	150	50	Tr.	Tr.	CL	CL	
127.00	3300	10.67	15.09	4.42	300	150	50	Tr.	CL	CL	

**CHEMICAL TEST REPORT**

(As Per IS - 10500)

DATE OF TEST - 18.01.2015      AGENCY - EE 1st DIV U.P. Jal Nigam M.L.

S. NO	SUBSTANCE OR CHARACTERISTIC	LIMIT			S. NO	SUBSTANCE OR CHARACTERISTIC	LIMIT		
		DESIRABLE	MAX	ACTUAL			DESIRABLE	MAX	ACTUAL
1	Colour.Hazen,Unit	5	25	---	9.	Dissolved solids mg/L	500	2000	262
2	Turbidity,NTU	5	10	---	10.	Calcium as(Ca) mg/L	75	200	---
3	PH value	6.5 to 8.5	No Relaxation	7.90	11.	Magnesium* as (Mn) mg/L	30	100	---
4	Total Hardness as (cacO <sub>3</sub> ) mg/L	300	600	150	12.	Copper as (Cu) mg/L	0.05	1.5	---
5	Iron as (Fe)mg/L	0.3	1.00	0.033	13.	Sulphate as (SO <sub>4</sub> ) mg/L	200	400	12.28
6	Chlorides as (Cl),mg/L	250	1000	38	14.	Nitrate as(NO <sub>3</sub> ) mg/L	45	100	8.41
7	Residual Free Chlorine,mg/L	0.2	---	---	15.	Alkalinity,mg/L	200	600	200
8	Fluoride as (F),mg/L	1.0	1.5	0.138					

Note - All dimensions are in metres.

J.E

A.E

E.E