



# OFFICE OF THE EXECUTIVE ENGINEER JAL NIGAM YANTRIK KHAND U.P. JAL NIGAM MEERUT

## COMPLETION PLAN OF TUBEWELL

(YEAR - 2014-2015)

NAME OF SCHEME - RAJPUR CHAJPUR W/S SCHEME DIST. MUZAFFARNAGAR.  
TOTAL NO. OF TUBE WELL PROVIDED IN THE SCHEME - 1 NO.  
LOCATION OF TUBE WELL - NEAR ANIMAL HOSPITAL  
NAME OF CONTRACTOR - M/S PIONEER DRILLING CO. PVT. LTD. GZB.

SPRING WATER LEVEL IN WTRIS - 24.90 M  
SIZE OF BORE - 875 & 550 MM.  
DATE OF COMPLETION OF TRK - 21.07.2015

DEPTH B.G.L METER	BORING PRESENTATION	LITHOLOGICAL LOGS	EXECUTED ASSEMBLY	ABSTRACT
0.00		SURFACE CLAY	CL	1. DRILLING STARTED ON 02.08.2015
4.87		MEDIUM SAND	100mmØ	2. DRILLING COMPLETED ON 08.08.2015
18.75		CLAY (STICKY)	48.25	3. LOWERING ON 15.08.2015
41.15		YELLOW FINE SAND	48.25	4. DRILLING DEPTH 118.00 M
44.20		MEDIUM SAND	48.25 43.15 54.17	5. 200 MM DIA HOUSING PIPE 48.00 M
65.53		CLAY (STICKY)	54.17 54.17 94.30	6. 300MM DIA REDUCER 2.10 M
68.58		YELLOW SANDY CLAY	94.30	7. 200 MM DIA BLIND PIPE 24.40 M
74.68		MEDIUM SAND	76.50 76.50 79.24	8. 200 MM DIA SLOTTED PIPE 26.27 M
102.11		CLAY	102.11	9. DISCHARGE BY COMPRESSOR 1500 LTR
109.73		YELLOW FINE SAND	107.31	10. DISCHARGE BY O.P UNIT 1800 LTR
115.90			107.31	11. PUMPING PLANT - MAKE - VARUN DISCHARGE - 1500 LTR HEAD - 37 M H.P. - 30 COLLECTOR PRESS - 150 MM DIA 1.20 M

### YIELD TEST OF T/W BY COMPRESSOR

DATE OF TEST - 08.07.2015      STATIC W/L - 24.90 M      TASTE OF WATER - SWEET

DISCHARGE BY V NOTCH		SAND CONTENTS IN PPM					REMARKS
Height Of Water	Discharge In Lpm	starting	After 5 min	After 10 min	After 15 min	After 30 min	After 60min
08"	1526	1500	600	300	100	Tr.	CL

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

[As Per IS - 2900]

DATE OF TEST - 31.07.2015      STATIC W/L - 24.90 M      TASTE OF WATER - SWEET

ORIFICE TUBE HEIGHT IN INCH	DISCHARGE IN L.P.M	SWL IN MTS	RWL IN MTS	DEPRESSION IN L.P.M	STARTING	SAND CONTENTS IN PPM					REMARKS/OBSERVATIONS
						After 5 min	After 10 min	After 15 min	After 30 min	After 60 min	
10"	1487	24.90	28.40	3.50	50	CL	CL	CL	CL	CL	Recommended discharge - 1800 LPM at 1.20M depression. Pump should be run in depression to reduce the risk of water logging.
12"	1628	24.90	28.50	3.60	100	CL	CL	CL	CL	CL	
15"	2029	24.90	28.70	3.80	200	Tr.	CL	CL	CL	CL	
25"	2910	24.90	29.90	4.90	300	100	Tr.	CL	CL	CL	
35"	2748	24.90	29.50	4.60	450	150	Tr.	CL	CL	CL	

### CHEMICAL TEST REPORT

[As Per IS - 15592]

AGENCY - E.E RAJPUR W/S Jal Nigam Meerut

DATE OF TEST - 17.08.2015

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	278
2	Turbidity, NTU	5	10		10	Calcium as (Ca) mg/L	75	200	
3	PH value	6.5 to 8.5	No Relaxation	7.63	11	Magnesium as (Mg) mg/L	30	100	
4	Total Hardness as (CaCO <sub>3</sub> ) mg/L	300	600	100	12	Copper as (Cu) mg/L	0.05	1.5	
5	Iron as (Fe) mg/L	0.3	1.00	0.023	13	Sulphate as (SO <sub>4</sub> ) mg/L	200	400	19.80
6	Chlorides as (Cl) mg/L	250	1000	22	14	Nitrate as (NO <sub>3</sub> ) mg/L	45	100	8.00
7	Residual Free Chlorine mg/L	0.2			15	Alkalinity mg/L	200	600	260
8	Fluoride as (F) mg/L	1.0	1.5	0.129					

Note - All dimensions are in metres.

J.E

A.E

E.E