



SERIAL NO: 15-16/11

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

**COMPLETION PLAN OF TUBEWELL
(YEAR - 2014-2015)**

NAME OF SCHEME - PALDI W/S SCHEME DISTT MUZAFFARNAGAR.
TOTAL NO. OF TUBE WELL PROVIDED IN THE SCHEME - 1 NO.
LOCATION OF TUBE WELL - 1ST
NAME OF CONTRACTOR - M/S PIONEER DRILLING CO. GZR.

SPRING WATER LEVEL IN METRE - 19.81 M
SIZE OF BORE - 875 X 650 MM
DATE OF COMPLETION OF T/W - 20.03.2015

DEPTH B GL METER	BORING PRESENTATION	LITHOLOGICAL LOGS	EXECUTED ASSEMBLY	ABSTRACT
0.00		SURFACE CLAY		1 DRILLING STARTED ON 10.01.2015
10.67		FINE SAND		2 DRILLING COMPLETED ON 28.01.2015
16.75		CLAY		3 LOWERING ON 28.01.2015
41.15		FINE SAND		4 DRILLING DEPTH 157.88 M
50.25		CLAY		5 150 MM DIA HOUSING PIPE 64.98 M
56.39		FINE SAND		6 150 X 250 MM DIA REDUCER 0.10 M
56.44		FINE MEDIUM SAND		7 200 MM DIA BLEND PIPE 44.40 M
62.98		MEDIUM SAND TO COARSE SAND		8 200 MM DIA SLOTTED PIPE 45.12 M
96.97		FINE SAND		9 DISCHARGE BY COMPRESSOR 1814 L.P.M
92.96		MEDIUM SAND		10 DISCHARGE BY O.P UNIT 2260 L.P.M
111.25		CLAY		11 PUMPING PLANT - MAKE VANDIA DISCHARGE 2260 L.P.M HEAD 66 M H.P. 52 COLUMN PIPES - 150 MM DIA X 30 M
123.44		MEDIUM SAND		
138.68		CLAY		
141.72		VERY FINE SAND		
147.86				

YIELD TEST OF T/W BY COMPRESSOR

DATE OF TEST - 24.02.2015 STATIC W/L - 19.81 M TASTE OF WATER . SWEET

Height Of Water	Discharge In Lpm	SAND CONTENTS IN PPM						REMARKS
		starting	After 5 min	After 10 min	After 15 min	After 30 min	After 60min	
21.60	1814	900	700	450	250	50	CL.	
22.80	2060	1500	1000	600	400	100	Tr.	

YIELD TEST OF T/W BY O.P UNIT

(As Per IS - 2800)

DATE OF TEST - 20.03.2015 STATIC W/L - 19.81 M TASTE OF WATER - SWEET

ORIFICE TUBE HEIGHT IN INCH	DISCHARGE IN L.P.M	S.W.L. IN Mts	P.W.L. IN Mts	DEPRESSION IN L.P.M	STARTING	SAND CONTENTS IN PPM					RECOMMENDATIONS
						After 5 MIN	After 10 MIN	After 15 MIN	After 20 MIN	After 30 MIN	
50.80	2083	19.81	23.18	3.35	CL.	CL.	CL.	CL.	CL.	CL.	Recommendation: discharge 2260 L.P.M at 3.66 M. depression.
58.42	2209	19.81	23.26	3.45	Tr.	CL.	Tr.	CL.	CL.	CL.	Pump should be run in bypass for 5 minutes before supply of water in rising train.
78.20	2538	19.81	23.41	3.60	50	100	Tr.	CL.	CL.	CL.	
101.80	2744	19.81	23.71	3.90	150	150	50	Tr.	CL.	CL.	
127.80	2952	19.81	24.78	4.95	450	200	50	Tr.	CL.	CL.	

CHEMICAL TEST REPORT

(As Per IS - 10500)

DATE OF TEST - 20.03.2015

AGENCY - EE 1st DIV U.P Jal Nigam Mt.

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	---
2.	Turbidity, NTU	5	10	---	10.	Calcium as (Ca) mg/L	75	200	---
3.	PH value	6.5 to 8.5	No Relaxation	7.75	11.	Magnesium* as (Mn), mg/L	30	100	---
4.	Total Hardness as (CaCO ₃) mg/L	300	600	160	12.	Copper as (Cu) mg/L	0.05	1.5	---
5.	Iron as (Fe), mg/L	0.3	1.00	0.040	13.	Sulphate as (SO ₄) mg/L	200	400	7.29
6.	Chlorides as (Cl), mg/L	250	1000	17	14.	Nitrate as (NO ₃) mg/L	45	100	4.86
7.	Residual Free Chlorine, mg/L	0.2	---	---	15.	Alkalinity, mg/L	200	600	230
8.	Fluoride as (F), mg/L	1.0	1.5	0.119					

Note - All dimensions are in metres.

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