



VELAMMAL MEDICAL COLLEGE
HOSPITAL AND RESEARCH INSTITUTE
MADURAI - 625009

7.1.5

**Installation bills and Maintenance Reports of Water Conservation
Facilities available in the Institution**

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9.3.2022
Prof. T. THIRUMANICKARASU, M.D., D.A.

Velammal Medical College Hospital
and Research Institute
"Velammal V. S. Road"
Madurai - 625009, T.N.
Anuppanadi, Madurai-625 009, T.N.



Excellence Laboratory
IS/ISO/IEC 17025:2005 & ISO 9001:2015
Quality Management System Implemented
NABL Accredited Laboratory for Testing



EXCELLENCE
LABORATORY
KNOW THE UNKNOWN™

21.12.2019

To

The Dean

Velammal Medical College Hospital & Research Centre (VMCH & RI)

Velammal Madurai-Tuticorin Ring Road,

Anuppanadi, Viraganoor,

Madurai – 625 009.

Ph: 8940391044

Mobile: 9092801567

E-Mail: academic@velammalmedicalcollege.edu.in

Sub: Submission of Test Report - Reg

Dear Sir

We have received and analyzed the water sample. In continuation the following test report is enclosed herewith for your kind reference. Kindly acknowledge the receipt of report and invoice.

- Water Sample Analysis Report (1 no)

Please feel free to contact us in case of any further assistance. We look forward to your valid order further.

Thanking you

For Excellence Laboratory

Authorized Signatory

Enclosure:

- Test Reports
- Invoice No: EL/1421/19-20

TEST REPORT
WATER ANALYSIS

Report No :	EL-NL-WR-7-02-2018	Report Date :	14.02.2018
Customer Name & Address M/s. Velammal Medical College Hospital & Research Centre (VMCH & RI) Velammal Madurai Tuticorin Ring Road, Anuppanadi, Viraganoor, Madurai -625 009	Sample Reference No :	EL-NL-WR-7-02-2018	
	Sample Description :	Water	
	Sample Drawn By :	Customer	
	Sample Collected Date :	07.02.2018	
	Qty of Sample Received :	2 Liter (Approximately)	
	Sample Received On :	08.02.2018	
	Test Commenced On :	08.02.2018	
	Test Completed On :	13.02.2018	
	Sampling Method :	--	
	Sample Mark:	STP Treated Water	

S.No	Name of the Test	Test Method	Units	Results	Max. Permissible Limits of TNPCB Std for Treated Sewage
1.	Appearance.	APHA 23 rd Edition 2012 (2110)	--	Yellowish Turbid	NA
2.	Biochemical Oxygen Demand (BOD) at 27°C for 3 days.	IS 3025 (Part 44) : 1993 (Reaffirmed 2014)	mg/L	9.0	10
3.	Calcium (as Ca).	IS 3025 (Part 40) : 1991 (Reaffirmed 2014) Clause No.5	mg/L	227	NA
4.	Chemical Oxygen Demand (COD).	IS 3025 (Part 58) : 2006 (Reaffirmed 2017)	mg/L	16	50
5.	Chlorides (as Cl).	IS : 3025 (Part 32) - 1988 (Reaffirmed 2014) Clause No.2	mg/L	890	NA
6.	Colour	IS 3025 (Part 04) : 1983 (Reaffirmed 2012) Clause No.2	Hazen	30	NA
7.	Dissolved Phosphates (as P).	IS 3025 (Part 31) : 1988 (Reaffirmed 2014) Clause No.4	mg/L	2.1	NA
8.	Fluoride (as F).	APHA 23 rd Edition 2017 (4500 - F ⁻ D)	mg/L	0.16	NA
9.	Free Ammonia (as NH ₃).	APHA 23 rd Edition 2017 (4500 - NH ₃ C)	mg/L	3.9	NA
10.	Iron. (as Fe)	IS 3025 (Part 53) : 2003 (Reaffirmed 2014) Clause No.7	mg/L	<0.05	NA
11.	Magnesium (as Mg).	IS 3025 (Part 46) : 1994 (Reaffirmed 2014) Clause No.6	mg/L	56	NA
12.	Manganese. (as Mn)	IS 3025 (Part 59) : 2006 (Reaffirmed 2012) Clause No.6	mg/L	<0.01	NA
13.	Nitrate. (as NO ₃)	IS : 3025 (Part 34) - 1988 (Reaffirmed 2014) Clause No.3.3	mg/L	<1.0	NA
14.	Nitrite. (as NO ₂)	IS : 3025 (Part 34) - 1988 (Reaffirmed 2014) Clause No.4	mg/L	<0.01	NA
15.	Odor.	IS : 3025 (Part 05) 1983 (Reaffirmed 2017)	--	Disagreeable	NA
16.	Oxygen Absorbed in 4 h @ 27°C.	IS 3025 (Part 63) : 2007 (Reaffirmed 2013)	mg/L	2.2	NA

Terms :

- The test results relate only to the item tested and samples are not drawn by us unless otherwise stated.
- This test report shall not be reproduce in full or part without the written approval of Excellence Laboratory.
- This test item will not be retained for more than 10 days from date of issue of test reports, unless otherwise specified by customer.
- Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
- This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
- "a" Indicates the tests are subcontracted to other accredited laboratory.

TEST REPORT

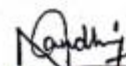
Report No : EL-NL-WR-7-02-2018					
17.	pH value @ 25°C.	IS : 3025 (Part 11) - 1983 (Reaffirmed 2017) Clause No.2	No.	7.5	6.5 - 9.0
18.	Phenolphthalein Alkalinity (as CaCO ₃)	IS : 3025 (Part 23) - 1986 (Reaffirmed 2014) Clause No.8.1	mg/L	Nil	NA
19.	Specific Conductance @ 25°C	IS 3025:Part 14:2013 ISO 7888:1985	μS/Cm	3510	NA
20.	Sulphates (as SO ₄).	IS : 3025 (Part 24) - 1986 (Reaffirmed 2014) Clause No.2	mg/L	56	NA
21.	Total Alkalinity (as CaCO ₃)	IS : 3025 (Part 23) - 1986 (Reaffirmed 2014)	mg/L	546	NA
22.	Total Dissolved Solids. @ 105°C	IS 3025 (Part 16) - 1984 (Reaffirmed 2017)	mg/L	2280	NA
23.	Total Hardness (as CaCO ₃)	IS 3025 (Part 21) : 2009 (Reaffirmed 2014) Clause No.5	mg/L	796	NA
24.	Turbidity	IS : 3025 (Part 10) - 1984 (Reaffirmed 2017)	NTU	1.3	NA

<--- End of Report --->

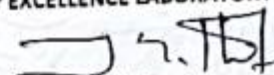
Notes:

The concentration of the parameters tested in the above sample is within the prescribed limits of TNPCB tolerance limits of 2017.

Report Confirmed By :


G.NANDHINI
 Sr. Lab Chemist

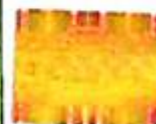

For EXCELLENCE LABORATORY


 Authorized Signatory

T. KARTHIKEYAN
 Head - Laboratory

Terms :

1. The test results relate only to the item tested and samples are not drawn by us unless otherwise stated.
2. This test report shall not be reproduce in full or part without the written approval of Excellence Laboratory.
3. This test item will not be retained for more than 10 days from date of issue of test reports, unless otherwise specified by customer.
4. Total liability of our laboratory is limited to the invoice amount and any dispute arising out of this report is subject to Madurai Jurisdiction only.
5. This report cannot be used as evidence in the court of law and should not be used in any advertising media without our special permission in writing.
6. "E" Indicates the tests are subcontracted to other accredited laboratory.



DEPARTMENT OF MICROBIOLOGY
SCHEDULE FOR WATER SURVEILLANCE - 2019

S.NO	AREA	FREQUENCY	DATES
1	MOT	Once a month	5.1.19, 7.2.19, 7.3.19, 4.4.19, 2.5.19, 6.6.19, 4.7.19, 1.8.19, 5.9.19, 3.10.19, 7.11.19, 5.12.19
2	EOT	Once a month	"
3	GOT	Once a month	"
4	CTOT	Once a month	10.1.19, 14.2.19, 14.3.19, 11.4.19, 9.5.19, 13.6.19, 11.7.19, 8.8.19, 12.9.19, 10.10.19, 14.11.19, 12.12.19
5	GSOT	Once a month	"
6	RO Sump I & II	Once a month	"
7	Chiller plant	Once a month	"
8	Kitchen	Once a month	"
9	Public canteen	Once in 2 months	18.1.19, 21.3.19, 16.5.19, 18.7.19, 19.9.19, 21.11.19
10	3 Water coolers in ground floor	Once in 2 months	"
11	Water coolers in I, II & III floor (5)	Once in 2 months	24.1.19, 28.3.19, 23.5.19, 25.7.19, 26.9.19, 28.11.19
12	New canteen	Once in 2 months	19.2.19, 18.4.19, 20.6.19, 22.8.19, 17.10.19, 19.12.19
13	Other 3 Water coolers in ground floor	Once in 2 months	"
14	Water coolers in IV, V floor	Once in 2 months	28.2.19, 25.4.19, 27.6.19, 29.8.19, 24.10.19, 26.12.19

Note : Sample should be sent before 10 am

h
21/11/19

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

2019

VMCH/RO-2 /CAR.CLEANING/002

List No:

Month: May and Sep

Cartridge filter cleaning Details

Location: RO - 1

sl.No.	Date	Cartridge Filter Change and Cleaning Date	Pressure in KG/CM.Squ.		Remarks
			Before Cleaning	After Cleaning	
B		5 - micron filter	1.5 kg/cm ²	1.5 kg/cm ²	
		10 - micron filter	1.7 kg/cm ²	1.7 kg/cm ²	Clean
		CLP - micron filter	0.8 kg/cm ²	0.7 kg/cm ²	
A		5 - micron filter	1.5 kg/cm ²	1.5 kg/cm ²	Clean
		10 - micron filter	1.8 kg/cm ²	1.7 kg/cm ²	
		CLP - micron filter	0.7 kg/cm ²	0.7 kg/cm ²	

CHECKED BY

L. Chitt

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-1 /CAR.CLEANING/002

List No:

Month: *NOVEMBER - 2019*

Cartridge filter cleaning Details

Location: RO - 1

Sl.No.	Date	Cartridge Filter Change and Cleaning Date	Pressure in KG/CM.Squ.		Remarks
			Before Cleaning	After Cleaning	
1	5-11-19	5 micron filter	1.5785/cm ²	1.5785/cm ²	
2	5-11-19	10 micron filter	1.7785/cm ²	1.7785/cm ²	
3	5-11-19	10 micron filter	0.8785/cm ²	0.7785/cm ²	

G. S. Suresh
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PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-1 /CAR.CLEANING/002

List No:

Month: *January 2020*

Cartridge filter cleaning Details

Location: RO - 1

sl.No.	Date	Cartridge Filter Change and Cleaning Date	Pressure in KG/CM.Squ.		Remarks
			Before Cleaning	After Cleaning	
1.	5.1.20	5 micron filter	1.5778/cm ²	1.5778/cm ²	
2.	5.1.20	10 micron filter	1.7778/cm ²	1.7778/cm ²	
3	5.1.20	CIP micron filter	0.8778/cm ²	0.7778/cm ²	

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PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-1 /CAR.CLEANING/002

List No:

Month: *march . 2020*

Cartridge filter cleaning Details

Location: RO - 1

sl.No.	Date	Cartridge Filter Change and Cleaning Date	Pressure in KG/CM.Squ.		Remarks
			Before Cleaning	After Cleaning	
1	7.3.20	5 micron filter	1.5 kgs/cm ²	1.5 kgs/cm ²	
2	7.3.20	10 micron filter	1.7 kgs/cm ²	1.7 kgs/cm ²	
3	7.3.20	CIP micron filter	0.8 kgs/cm ²	0.7 kgs/cm ²	

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PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-1 /CAR.CLEANING/002

List No:

Month: *May . 2020*

Cartridge filter cleaning Details

Location: RO - 1

sl.No.	Date	Cartridge Filter Change and Cleaning Date	Pressure in KG/CM.Squ.		Remarks
			Before Cleaning	After Cleaning	
1.	3.5.20	5 micron filter	1.5 Kgs/cm ²	1.5 Kgs/cm ²	
2	3.5.20	10 micron filter	1.7 Kgs/cm ²	1.7 Kgs/cm ²	
3	3.5.20	CIP micron Filter	0.8 Kgs/cm ²	0.8 Kgs/cm ²	

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Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO- /CHE.CLEANING/001
 List No: 9

Month: September - 2019

Chemical Cleaning
 Location : RO - 2

sl.No.	Date	Chemical Used	Before Cleaning			During Cleaning			Return Cleaning			Remarks
			Feed Pres.	Reject Pres.	TDS	F.P	R.P	TDS	F.P	R.P	TDS	
1	7/9/19	HCL Acid 33% 5Ltrs 6	10.8 kg/cm ²	10.5 kg/cm ²	130 PPM	10.5 kg/cm ²	11.0 kg/cm ²	340 PPM	10.5 kg/cm ²	8.2 kg/cm ²	160 PPM	
		ADF - 1.8 kg				12.0 kg/cm ²	11.5 kg/cm ²	150 PPM				
		Citric Acid - 5 kg/cm ²				11.0 kg/cm ²	10.5 kg/cm ²	680 PPM				
		EDTA - 0.5 kg										

Surya S.
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PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO- /CHE.CLEANING/001

List No: 10

Month: December - 2019

Chemical Cleaning

Location : RO - 2

[illegible]

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PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO- /CHE.CLEANING/001
 List No:

Month: *march. 2020*

Chemical Cleaning
 Location : RO - 2

sl.No.	Date	Chemical Used	Before Cleaning			During Cleaning			Return Cleaning			Remarks
			Feed Pres.	Reject Pres.	TDS	F.P	R.P	TDS	F.P	R.P	TDS	
1	9.3.20	HCl Acid 33%	11.2 175/cm ²	9.5 175/cm ²	160 PPM	10.5 185/cm ²	11.0 175/cm ²	580 PPM	10.3 175/cm ²	8.5 175/cm ²	160 PPM	
		ADF - 1.5lys				11.0 185/cm ²	10.8 175/cm ²	1480 PPM				
		Citric Acid 445/m ²				10.8 175/cm ²	11.5 175/cm ²	640 PPM				
		EDTA - 0.5lys										

Suresh S
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ROUTINE MAINTENANCE CHECK LIST

1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 26

9212

01. 10. 2019

10/10/2011 10:10:10 AM

Location: Reigland, p. 4

No. Obs.	Date	Long. (Longitude) Date	Short Day Date	Observation
8	11-10-2012	11-10-2012	10-10-2012	Young of C. domingensis Coral Reef

[illegible]

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Figure 10.10 (continued)



Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-1/RAW.SUMP/CLEAN/001

Ro -softner water sump Cleaning Details

List No: 3

Month: October 19 Location: Ro-plant-1

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1	10.8.2019	09.08.2019 Capacity 500 ltr	10.10.2020	Yearly cleaning work done

Swags

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Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/RAW.SUMP/CLEAN/001

Ro -raw water sump Cleaning Details

List No: 1.

Month: OCTOBER 2018

Location: Ro-plant-2

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1.	5.10.2018	5.10.2018 CAPACITY - 500 KL.	5.10.2018	YEARLY MAINTENANCE CLEANING WORK DONE

M. Arifhannam,
CHECKED BY


INCHARGE


HOD

Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/RAW.SUMP/CLEAN/001
 List No: 2

Month: October-2015

Ro -RAW water sump Cleaning Details
 Location: Ro-plant-2

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1	10.10.19	08.10.2019	10.10.2020	
		Capacity - 500 KL		

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PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-1/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: 1

Month: January.

Location: Ro-plant-1

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1.	4.1.2018	4.1.2018 Capacity - 100 KL	10.4.2018	- Nil -


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Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: *H*

Month: *JANUARY - 2019*

Location: Ro-plant- *1*

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
<i>1.</i>	<i>12.01.2019</i>	<i>12.01.2019</i> <i>CAPACITY - 100 KL</i>	<i>20.04.2019</i>	<i>MOTOR RUST AND SAND REMOVED . OLD WATER DRAINED OUT</i>

Surya S

CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: 5.

Month: APRIL - 2019

Location: Ro-plant- 1

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1.	15.4.2019	15.4.2019 CAPACITY - 100KL	07.07.2019	SAND PARTICLES REMOVED. OLD WATER DRAINED OUT

5/4/19
CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-1/PER.SUMP/CLEAN/001

List No: 6

Month: July-2019

Ro-permeate water sump Cleaning Details

Location: Ro-plant- 01

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1.	13.7.2019	11.07.2019 Capacity - 100Ltr	12.10.2019	Sand particles removed, old water drained out.

S. S. S.

CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-1/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: 7

Month: October 2019 Location: Ro-plant- 01

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1.	15.10.19	13.10.2019 Capacity - 100 KL	13.01.2020	Sand particles removed & old water drained out.

Sway-S
CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-1/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: 08

Month: January, 2020

Location: Ro-plant- 01

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1.	13.01.2020	10.01.2020 Capacity - 100 KL	15.04.2020	Sand Particles removed, old water Drained out.

Swamy
CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-1/PER.SUMP/CLEAN/001

Ro-permeate water sump Cleaning Details

List No: 09

Month: APRIL - 2020

Location: Ro-plant- I

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1	13.4.2020	11.04.2020 Capacity - 100KL	16.07.2020	Sand particles removed, old water drained out

S. S. S.
CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: 3.

Month: July-2018.

Location: Ro-plant-2

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1.	8.7.2018	8.7.2018 CAPACITY - 600 KL.	19.11.2018	CLEANED AND SUMP DRIED FOR 1-DAY.


CHECKED BY


INCHARGE


HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: 4

Month: October 2019

Location: Ro-plant-

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1	7.10.2018	7.10.2018 Capacity - 600KL	10.01.2019	Cleaned & Sump Dried for 1 day

Sureg S
CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: 5

Month: January 2019

Location: Ro-plant-

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1	11.01.2019	10.01.2019 Capacity - 600KL	15.04.2019	CLEANED & SUMP DRYED for 1 day

Sway.5
CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: 6

Month: April - 2019

Location: Ro-plant-

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1	11.04.2019	09.04.2019 Capacity - 600KL	13.06.2019	CLEANED & Sump DRYED for 1 day

Swamy-S
CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: 7

Month: JULY-2019

Location: Ro-plant-

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1	8.7.2019	05.07.2019 Capacity: 600 KL	13.10.2019	CLEANED & SUMP DRAINED for 1 day

Swamy
CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/PER.SUMP/CLEAN/001

Ro -permeate water sump Cleaning Details

List No: 8

Month: October 2019

Location: Ro-plant-

Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1	15.10.2019	12.10.2019 Capacity 600 ML	13.01.2020	Cleaned & Sump dryed for 1 day

Swamy

CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute

PREVENTIVE MAINTENANCE CHECK LIST

VMCH/RO-2/PER.SUMP/CLEAN/001

List No: 9

Month: January. 2020

Ro -permeate water sump Cleaning Details

Location: Ro-plant-

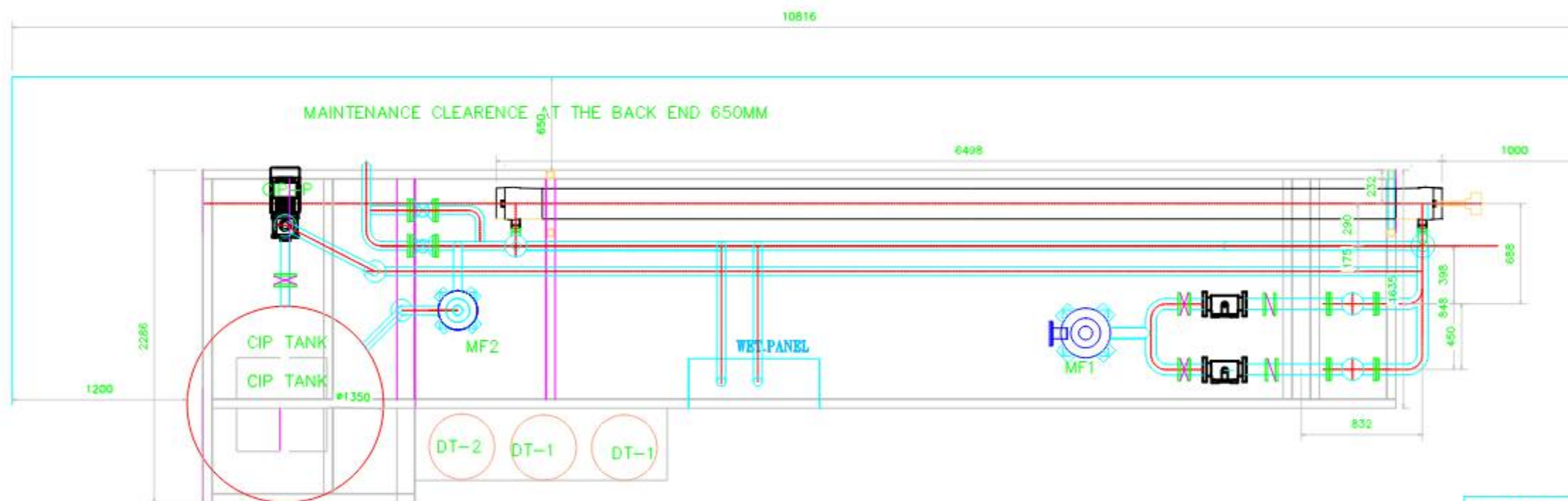
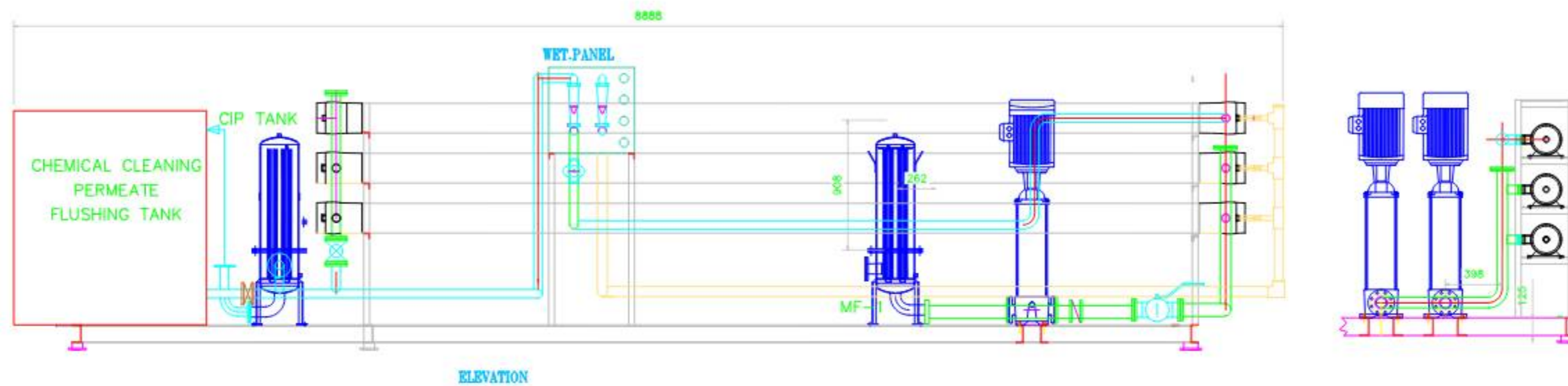
Sl.No.	Date	Sump Cleaned Date	Next Due Date	Remarks
1	12.01.2020	10.01.2020 Capacity 600 KL	15.04.2020	CLEANED SUMP DRYED for 1 day

Secretary

CHECKED BY

INCHARGE

HOD

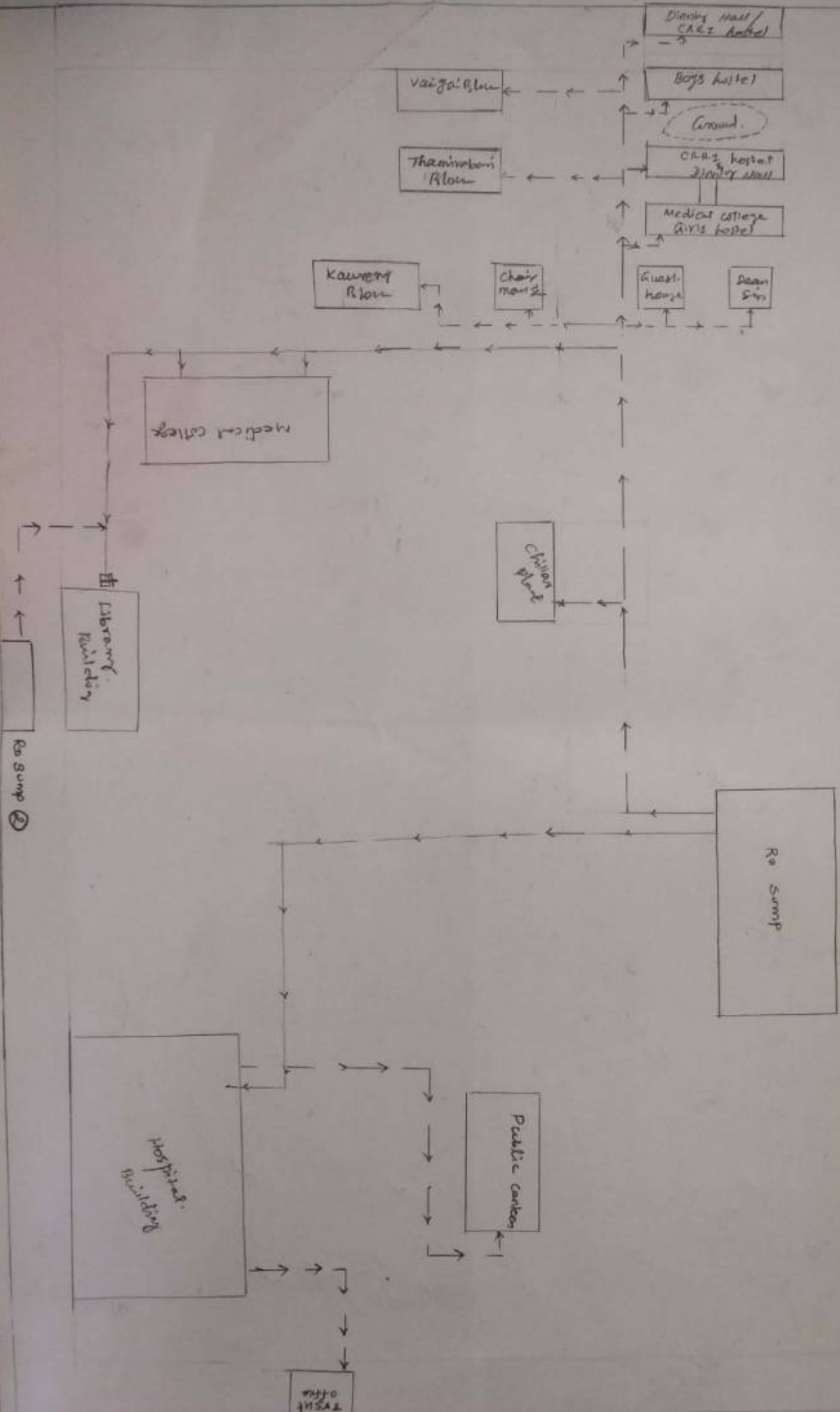


**SAND FILTER AND ACID DOSING TANK
WILL BE KEPT OUTDOOR**

VMCH-MADURAI		PROPOSAL DRAWING			
P & I DIAGRAM FOR WTP 15 M3/HR RO-PLANT-PROPOSED LAYOUT					
Drawn:	A.D.Yokeshwaran	Checked:	V.K		
SCALE:	DRG NO:	REV:	PROPOSAL	SHEET	
(NTS)	(K&K/C-VMCH/PID/001)	DATE:	(12.10.2016)	1	



RO WATER PIPE LINE ROUTING



Velammal Educational Trust
Velammal Village
Madurai Tuticorin Ring Road
Chinthamani
Madurai-09

102/VMCH/WO/01/2019

01 Jan 2019

M/S Classic Engineering Company,
5/185, Pandian Street, Alagappan Nagar,
Madurai-625003
Mail ID : classicengcom@gmail.com

Dear Sir,

Subject :Renewal Work order No .001/2019-20-for Annual maintenance of STP NO 1, II & Sewage Blockages for he year 2019-20 at Velammal Medical College Hospital & Research Institute- Reg

- Ref : (i) This office work order No 001/2017-18 dated 01 May 2017 .
(ii) Your quotation dated 31 Dec 2018.

We are glad to inform you that our above referred Work order for Annual Maintenance of STP No 1, II & Sewage Blockages at our Velammal Medical College Hospital & Research Institute, Madurai, have been considered and we are pleased to place our Revised Work order to you for the above work. Details are as under:-

- (a) STP- I- Operator (2 Nos 12 Hrs shift (Day & Night) - 2 X 13,000.00 – Rs .26,000.00
With knowledge to operate the pump sets & Systems
- (b) STP-II- Operator (2 Nos 12 Hrs shift (Day & Night) - 2 X 13,000.00 – Rs .26,000.00
With knowledge to operate the pump sets & Systems
- (c) Engaging 2 scavengers to remove the sewage - 2 X 15,000.00 – Rs.30,000.00
Blockages in the main sewer line, manholes chambers
STP No 1 and in RO plants etc in Velammal Village
(Medical College , Hospital, CBSE School, Dining/Kitchen,
Hostels & Restaurant) and Viraganoor School, Thiruppuvanam
School and VRS, Ladanendhal)
- (d) Blockage conditional Labour (1 No X 11,000) -1 X 15,000.00 – Rs.15,000.00

Total amount per month : Rs.97,000.00

The employees should sign in the attendance register to be maintained in STP No 1& II. Bill may be claimed every month wise.

Thanking you,

Yours faithfully,

Notes:-

K. J. Senthil Kumar
(Engr K. Senthil Kumar) Accepted
R. Senthil Kumar

CHAIRMAN

1. Add GST extra as applicable

Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/STP-1/GREASE/001

Grease Packing
 Location: STP - 1

Month: *may*. 2019

List No: 19

Sl.No	Date	Motor Name	Grease Packed date	Next Due Date	Remarks
1	21.05.19	Aeration Blower - 1	20.5.19	10.7.19	no complaints
2	11	Aeration Blower - 2	20.5.19	10.7.19	no complaints
3	11	Air Agitation Blower - 1	20.5.19	10.7.19	no complaints
4	11	Air Agitation Blower - 2	20.5.19	10.7.19	no complaints
5	11	Clarifier Motor	20.5.19	10.7.19	no complaints
6	11	Clarifier Mechanism	20.5.19	10.7.19	''

Sway-5
 CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/STP-1/GREASE/001

List No: 18

Month: September, 2019

Grease Packing

Location: STP - 1

Sl.No	Date	Motor Name	Grease Packed date	Next Due Date	Remarks
1	07.07.19	Aeration Blower - 1	07.07.19	30.11.19	no comments
2	11	Aeration Blower - 2	07.07.19	30.11.19	11
3	11	Air Agitation Blower - 1	07.07.19	30.11.19	11
4	11	Air Agitation Blower - 2	07.07.19	30.11.19	11
5	11	Clarifier Motor	07.07.19	30.11.19	11
6	11	Clarifier Mechanism	07.07.19	30.11.19	11

Gingans
 CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/STP-1/GREASE/001

List No: 19

Month: November - 2019

Grease Packing

Location: STP - 1

Sl.No	Date	Motor Name	Grease Packed date	Next Due Date	Remarks
1	25.11.19	Aeration Blower - 1	24.11.19	28.01.2020	no complaint
2	"	Aeration Blower - 2	24.11.19	28.01.2020	"
3	"	Air Agitation Blower - 1	24.11.19	28.01.2020	"
4	"	Air Agitation Blower - 2	24.11.19	28.01.2020	"
5	"	Clarifier Motor	24.11.19	28.01.2020	"
6	"	Clarifier Mechanism	24.11.19	28.01.2020	"

Swayas
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INCHARGE

HOD

Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/STP-1/GREASE/001

List No: 20

Month: *January. 2020*

Grease Packing
Location: STP - 1

Sl.No	Date	Motor Name	Grease Packed date	Next Due Date	Remarks
1	10.1.20	Aeration Blower - 1	10.01.2020	08.03.2020	no comp. only
2	10.1.20	Aeration Blower - 2	10.01.2020	08.03.2020	"
3	10.1.20	Air Agitation Blower - 1	10.01.2020	08.03.2020	"
4	10.1.20	Air Agitation Blower - 2	10.01.2020	08.03.2020	"
5	10.1.20	Clarifier Motor	10.01.2020	08.03.2020	"
6	10.1.20	Clarifier Mechanism	10.01.2020	08.03.2020	"
7	10.1.20		10.01.2020	08.03.2020	"

Suresh
CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/STP-1/GREASE/001

Grease Packing

Location: STP - 1

List No:

Month: *march 2020*

Sl.No	Date	Motor Name	Grease Packed date	Next Due Date	Remarks
1	5.3.20	Aeration Blower - 1	05.03.2020	10.5.2020	
2	11	Aeration Blower - 2	05.03.2020	10.5.2020	
3	11	Air Agitation Blower - 1	05.03.2020	10.5.2020	
4	11	Air Agitation Blower - 2	05.03.2020	10.5.2020	
5	11	Clarifier Motor	05.03.2020	10.5.2020	
6	11	Clarifier Mechanism	05.03.2020	10.5.2020	

Surya S
CHECKED BY

INCHARGE

HOD

Velammal Medical College Hospital & Research Institute
PREVENTIVE MAINTENANCE CHECK LIST

VMCH/STP-1/GREASE/001

List No:

Month: *May 2020*

Grease Packing

Location: STP - 1

Sl.No	Date	Motor Name	Grease Packed date	Next Due Date	Remarks
1	8.5.20	Aeration Blower - 1	08.5.2020	5.8.2020	no complus
2	11	Aeration Blower - 2	08.5.2020	5.8.2020	11
3	11	Air Agitation Blower - 1	08.5.2020	5.8.2020	11
4	11	Air Agitation Blower - 2	08.05.2020	5.8.2020	11
5	11	Clarifier Motor	08.05.2020	5.8.2020	11
6	11	Clarifier Mechanism	08.05.2020	5.8.2020	11

G. S. S.
CHECKED BY

INCHARGE

HOD

STP - I (400 KLD)

1. COLLECTION TANK TRANSFER PUMP DETAILS

MAKE - GRUND FOS (SUBMERGE)

TYPE - SEGA 40.26.2.50A

MODEL - SE4

AMPS - 6.1

VOLTS - 400 - 415

K.W - 3.7

H.P - 5.0Hp

a. S.No MODEL - 9607591300006722

b. S.No MODEL - 9607591300006716.

c. S.No MODEL - 6907591300006717.

② NEW MOTORS FIXED FOR RAW SEWAGE TRANSFER (AIRLOCK TYPE)

FRACED DATE - 22/2/2015

MAKE - KIRLOSKAR (SELF PRIMING MOTOR NO FOOT VALVE)

HP/KW - 3/2.2 / TYPE - SP-2 HCSET

ROTATION - ⌚ CLOCKWISE / H. RANGE - 90 - 230 m.

AMPS - 4.5 / DISCHARGE - 6.2 L/S / RPM - 2840

① S.No - ASD E 8000 431

② S.No - ASD E 8000 431.

③ S.No - ASD E 8000 432.

③ NEW FLOW METER FIXED.

MAKE - FREINIG

MODEL NO - FmF 240.

S.No - 0115-11342.

SERVICING DATES & COMPLAINT ATTENDED.

S.No	DATE	DESCRIPTION OF WORK DONE	REMARKS	FAULT ATTENDED BY
①	17.10.2013	MODEL - 9607591300006722, Cable gland socket broken.	New Cable gland fixed by Newdown Engineering. Amps R-6.1 Y-6.2, B-6.1.	Kamraj (Newdown)
②	17.10.2013	MODEL - 9607591300006716, 1 phase continuity not working in cable gland.	Fault reported to Newdown Engineering for new cable.	Kamraj (Newdown)
③	24.10.2013	Panel board complete checking.	All gland held, not tightened.	Pandiarum (VMEH)
④	17.11.2013	Panel board & blower motors gland checking.	All circuit point checked and loose connection, tightened.	Pandiarum (VMEH)
⑤	20.4.2014	MODEL - 9607591300006716. Motor Shaft not rotating fault informed to Rajendra Sir & Newdown Engg.	Newdown Engg. Sending technician for repair.	gajendra sir
⑥	16.5.2014	MODEL - 9607591300006716, rotor shaft Jam sound. (All 4 Grundfos motors General Checkup)	Fault rectified, with Newdown Shaft Sealing hydromax shaft Vasudhavan. Amps R-6.5, Y-6, B-6.	gansel (Newdown) Vasudhavan (Hydromax)
7	16.6.14	All Motors and Starter Panel Terminal Connectors loose connection checking and load Amps checking.	Monthly maintenance.	R. prabhu
8	16.8.2014	MODEL - 9607591300006716. Motor not running. (Coil Shalt Amps - R-0, Y-0, B-0) (SHIFTED TO STRE)	motor blocked with plastics & rappings and tripped down (up-station)	gajendra sir

SID-7

AIR BLOWER MOTOR DETAILS.

COLLECTION TANK BLOWERS.

MAKE - KIRLOSKAR.

VOLT - 415 (MNX-18, LPT)

AMPS - 11.0 (9-15A OLR)

K.W - 5.5 / 7.5-HP

RPM - 1440.

a) S.No - XAA41/XV-402

b) S.No - XAA41/X11

AERATION TANK BLOWERS.

MAKE - KIRLOSKAR

VOLT - 415 (C-MNX, LPT)

AMPS - 27.6 (14-23 OLR)

K.W - 15

RPM - 1450

HP - 20.

a) S.No - U7AAB-12A4.

b) S.No - U7AAB-12A6.

SERVICING DATES & COMPLAINT ATTENDED.

S.NO	DATE	DESCRIPTION OF WORK DONE	REMARKS	FAULT ATTENDED
①	23.11.2013	Aeration tank blower S.No - U7AAB-12A4, STAR DELTA CONTACTOR BURNED.	STAR-DELTA New Contactor fixed and fault rectified.	Sangeetha electrician & Kartik Sir (current).
②	16.6.2014	All meters and starter panel terminal connectors loose connection checking and load Amps checking.	Monthly maintenance.	
③	18.10.2014	Aeration blower - B belt - 2 nos chg	Old belt damaged.	Dr. Jyoti
④	25.3.2015	Aeration blower - B chg belt - 2 nos.		Dr. Jyoti
⑤	9.4.2015	Collection tank blower - I & II belt - 4 nos. Recently chg.	A nos old belt damaged.	Dr. Jyoti
⑥	26.4.2015	Aeration blower - B contactor relay newly fitted.	old relay burnt.	Pauli electrician.
⑦	2.7.2015	Aeration blower - I, belt - 2 nos. Newly chg.	-	Dr. Jyoti
⑧	4.7.2016	A B-B belt turned out Newly chg. - 3 nos	New belt fixed.	Dr. Jyoti
⑨	5.9.2016	A B-A belt - 1 nos turned out	New belt chg.	Dr. Jyoti
⑩	17.12.2017	A B-A belt - 2 nos turned out	Newly chg.	Dr. Jyoti
⑪	9.8.2018	A B-B belt - 1 nos turned out	Newly chg.	Dr. Jyoti

NAME - KINGS RAO

VOLT - 415 (MNX9-C, 230V).

Ampl - 1.8V (1.4 - 2.3A, CLR) 2.0 A settings.

RPM - 1390

$$K_w = 0.75$$

HP - 1 HP

S/NO - U26AA34-11688.

DATE

DESCRIPTION OF WORK

REMARKS

FAULT
ATTENDED
GV

67

16-6-2014

General load Amps and terminal loose connection checking.

monthly maintenance

20-25-26

SIP-2

Sludge Transfer Pump.

MAKE - KIRLOSKAR

a) S/NO - WAA09-261XY.

b) S/NO - WAA09-XY244.

VOLT - 415 (MNX-12. (-230V))

AMPS - 4.5 (4.5-7.5 A/R)

K.W - 2.2

RPM - 2830

H.P - 3HP.

S.NO	DATE	DESCRIPTION OF WORK DONE	REMARKS	FAULT ATTENDED BY
①.	13.4.2016	Love joy coupling - teeth damaged S.No - WAA09 - 261XY. Size - 65	New one should be replaced. (request at Baram spares)	pete h challaya (26.1).
②.	10.6.2016	New coupling fitted on S.No - WAA09 - 261XY.	-	pete (26.1)
③	8.7.2017	Sludge motor bearing and shaft damaged.	Sent to Baramspare checked by pandeeswaran electrician	
④	11.08.17	Fixed the motor in the same location motor in good condition Amperage = (2.9, 3.0, 3.1)	checked by pandeeswaran Electrician.	
⑤.	13.9.2017	Sludge motor (b) bearing fault both pump & motor - 2	Sent out for service at Baram spares.	
	01.9.2017	Sludge motor (b) repaired after service.	No bearing sound.	Pandeeswaran electrician.
⑥.	25.12.2017	Sludge motor (b) Love joy coupling & bearing fault.	Sent out for service at Baram spares.	Pandeeswaran electrician
⑦.	26.1.2018	Sludge pump above (a & b) for service due to shaft & bearing complaint. (pump above)	Sent to am mungya Electricals for servicing/return on 12.3.2018.	
⑧.	4.3.2019	Sludge pump (a) shaft & bearing complaint on pump.	Sent to J. Sakin servicing/return on 15.4.2019	

STP-1

FILTER FEED PUMPS DETAILS (SUBMERGIBLE VERTICAL TYPE).

MAKE - TESLA

TYPE - 40L 00487500.

Powl. Codd - (12-11).

H.P - 7.5

AMPS - 13.

MODEL - SHF-18T

a) S.No - 5448598 } BOTH MOTORS HANDED OVER TO NEWDOWN ENGR.

b) S.No - 2330050 }

c) NEW KIRLOSKAR MOTOR DETAILS - 3PHASE INDUCTION MOTOR.

M/C No - SH122590-10.

K.W - 5.5.

VOLTS - 415

AMPS - 10.20.

CONNECTION - DELTA.

H.P - 7.5.

Pump DETAILS

S.No - A4DEFJ000155.

K.W/H.P - 5.5/7.5.

MODEL - SP3 TYPE.

DISCHARGE - 14.0L/S.

ERATED DATE - 29.3.2014.

d) KIRLOSKAR MOTOR DETAILS - 3PHASE INDUCTION MOTOR ERATED DATE - 7.7.2014.

S.No - U4WMKL00764.

Pump DETAILS

RPM - 2910.

TYPE - SP3

K.W - 5.5/H.P - 7.5.

Imp Ø - 174mm.

VOLT - 415

S.No - A4DEF000368.

AMPS - 11.

e) NEW ELECTROMAGNETIC FLOW METER FITTED IN OUTLET.

S.No - 0115-11211. MODEL - FMF 2040.

S.NO	DATE	DESCRIPTION OF WORK DONE	REMARK	FAULT ATTENDED BY
①	19/7/2013	MOTOR S/No - 5448598. Winding problem, Amps R-19.4, Y-13.4, B-9.1	Given for rewinding through MAPS to PEP Ground fcs (30.8.2013) (Bill will be climbed from Newdown engineering)	Panditkumar - electrician (vmen).
②	7/9/2013	MOTOR S/No - 5448598 ERATED in Intermittent food Sump. After rewinding.	Amps R-12.4, Y-15 B-12.9.	Kamalakannan (Newdown staff)
③	24.1.2014	MOTOR S/No - 5448598, winding Problem, Single 2P winding open (Blue). No continuity in Clamp meter.	Given for rewinding to PEP Ground fcs.	Kavitha sir of Jayabhar electrician (vmen)
④	27.1.2014	MOTOR S/No - 5448598, CORE DAMAGE BROUGHT BACK TO STD-J FROM PEP Ground fcs.	New motor Requested from Newdown engi.	Reported to Senthil sir. Parameswari, Rajakannan
⑤	27.3.2014	MOTOR S/No - 2330050, Red phase - continuity open,	FOR REWINDING CLAIMED Informed TO NEWDOWN Engineering	to Rajakannan Senthil Sir
⑥	29.3.2014	NEW KIRLOSKAR MOTOR ERATED M/C No - SH122590-10.	ERATED BY NEWDOWN JAFK SACHIN & ELECTRICIAN PANDITKUMAR.	
⑦	7/7/2014	M/C No - SH122590-10 BARELY FAULT (MOTOR)	ATTENDED BY PANDITKUMAR & MUTHUPPAI PUMPER.	NEWDOWN FIXED AND ALTERNATE
⑧	23/7/2014	M/C No - SH122590 Repaired and fitted in filter tank	R-9.9, Y-9.2, B-9.6	

SP-2

MINI SLURGE PUMP DETAILS

MAKE - KIELOXAR

VOLT - 415V (MNX9-230 VC)

AMPS - 2.0A (1.4-2.3A OLR) 1.4A Setting.

K.W - 0.75

H.P - 1

RPM - 3200

S/NO - 92-PBCA 003. ✓

S/N	DATE	DESCRIPTION OF WORK DONE	REMARKS	FAULT ATTENDED BY
①	23.1.2015	foot valve not working	Need to be purchased	g.n. Varghese
②	22.2.2015	New foot valve changed.	motor running good.	g.n. Varghese
③	25.11.2015	motor having fault	motor dismantled and fault reported to Rajendran Sir.	✓
			Electrician Pandi's Pater.	✓

SID-2

GARDIN MOTOR TRANSFER MOTOR DETAILS (ERECTOR DATE - 14.11.2013)

MAKE - KIRLOSKAR.

VLT - 400V

AMPS - 11.0 (9-14 A, MK 1, OLR) 11 A - settings.

RPM - 2900

K.W - 5.5

H.P - 7.5 HP

a). S/No - A4ADV000610

b). S/No - A4ADV000532.

S/NO	DATE	DESCRIPTION OF WORK DONE	REMARK	FAULT ATTENDED BY
1.	14.8.2015	Assembly Staff Bajali taken out motor - 3 for impeller correction.	S.No - A4ADV000532.	Pandey electrician.
2.	18.8.2015	After impeller changing in motor - 3, re-erected.	"	Pandey electrician.
3.	21.8.2015	Motor - 2 taken out for impeller changing.	Assembly Staff Sujali - S.No - A4ADV000610.	Pandey electrician.
4.	31.8.2015	Motor - 2 erected in plant by Bajali - slowdown staff.	Assembly Staff flow checked by Pandey electrician. - etc -	Pandey
5.	13.6.2017	S.No - A4ADV000630 motor shaft damage & bearing damage need to be changed.	checked with electrician Pandey & Subman. (14.6.2017) sent to Bussan order by Santil sir.	Pandey
6.	7.7.2017	S.No - A4ADV000630 Under winding short - 2 phase open. Pump side (no work needed).	checked with electrician Pandey & Subman	Pandey
7.	28/6/17	S.No - A4ADV000610 - Motor found in same location. Motor running in good condition. Amper Rating: (9.1, 7.5, 7.6)	checked by. Pandey & Subman.	Pandey
8.				

P.O. PLANT-1 - (15000 Ltr/hr).

HIGH PRESSURE MOTOR DETAILS

MAKE - GRUNDFOSS

KW - 18.5

AMPS - 35.5/24.6

HP - 24.7

MOTOR S.No - 110398

PUMP S.No - 0001

PUMP TYPE - CEMC K20-17A-FGI-G-V-H60V

PUMP MODEL - A9656885 P11206.

SERVICES DATES / COMPLAINT ATTENDED.

S.No	DATE	DESCRIPTION OF WORK DONE	REMARK	FAULT ATTENDED BY.
1. 13.9.2013	13.9.2013	High pressure motor Delta contactor burnt.	New contactor fixed and plant runned. (14.9.2013)	Karthik Sr. padichewann electrician, Sargoth electrician.
2. 16.9.2013	16.9.2013	High pressure motor MCB loose contact. Insulating mcb 63A, 4 pole. Load Amps - 19.5, 19.3, 19.0 A. Settings - 21 Amps.	Fault checked and plant runned.	Padichewann electrician.
3. 6/1/2014	6/1/2014	High pressure motor mcb tripped due to dry run.	Fault checked and air lock released. New 10-micron filter.	Salesubramanian electrician
4. 7/1/2014	7/1/2014	High pressure motor mcb kept tripped due to coil weak.	New 3-pole mcb fixed and plant runned.	Karthik Sr. padichewann electrician.
5. 25.6.14.	25.6.14.	Monthly maintenance (Electrical)	Loose connection checking & cleaning R.P. Padichewann	

MAKE - GRUPO FOR

VOLT = 415 V.

AMPS - 7.8 A

k.w = 4.0

H.P. = 5.4

S/No - A99516727 - P₁ - 1152

S.No	DATE	DESCRIPTION OF WORK DONE	REMARKS	FAULT ATTENDED BY
1.	31.12.2016.	motor water pump broken, heavy noise, reported to Karthik who is checked by pandeyan.	PO MAGS.	electrician pandeyan

R-O - PNEUMATIC SYSTEM DETAILS

TYPE - SMBS (VERTICAL TYPE).

MAKE - GRUNDFOSS

K.W - 7.5

H.P - 10 Hp.

AMPS - 15

a) S.No -

b) S.No -

SERVICING DETAILS / COMPLAINT ATTENDED DETAILS

S.NO	DATE	DESCRIPTION OF WORK DONE	REMARKS	FAULT ATTENDED BY
①	30.9.2013	Motor - I Red plate open.	for rewinding given to MABS.	Karthik sir. Pandiyan electrician
②	24.10.2013	motor - I tested after rewinding from MABS Resistance Valve absorbed - 2.9A, 2.9A, 3.5A - Amps Valve absorbed - 13.1, 13.1, 12.5, (20A). Full Valve - 15 Amps.	Rewinding claimed from MABS	Ramachandran (MABS staff)
③	24.10-2015	Pressure tank air bag bursted.	Disturbance received from MABS.	g.s. 1/2/15

Common Name: Yellow-bellied Sapsucker

Conservation of Energy: $\frac{1}{2}mv^2 = \frac{1}{2}mv_0^2 + \frac{1}{2}mv_1^2$

THESE THINGS

Make - GRAND PRA COVINO DUCK SHANK FOR TYPE

5.4 5.5

AP - 75

1403 = 33.7 Cu: mol / hr

HEAD = 33 bits

Kfz 2910

Model - Smart. Sex. Hgt. 25 - 5'5

9) S/no - 135 SF. 000, 29

W. S. No. - 126 of 2023

New notes - more blocks - exacted date - 19. 5. 2015

15 Nov - 1400 01000 999

DATE _____ BY /SR /LDR /MGR _____

$$20/100 = 25/125$$

amtl. - Kiste

$$11/100 = 9.5/100$$
 $V_{OV} = 100\text{V}$

Amf25 = 11.00

RPM = 2900

Servicing THIS / COMPANY ATTENDED

No.	Date	Description of Work done	Remarks	Unit Affected By
1	25-6-14	Monthly Maintenance. Checked	Lease Commission	
2	17-7-2014	S/no - Kk1pt 0029 Fuel meter Seal broken open for repair	Check & Reinstall Fuel meter drive for repair to	R-1 pump
3	12-7-2014	S/no - Kk1pt 0023 Yellow phase open.	1st generator through wires.	Generator
4	26-9-2014	S/no - Kk1pt 0029 Fuel meter damaged. Pump after repairing meter Seal.	Amperes Value checked, ok -	2nd 12/2014
5	11-8-2014	S/no - Kk1pt 0023 meter emitting Sharp with Mains Abnormal	Amperes Value noted (9.1 9.4 9.3)	2nd 12/2014
6	5-7-2014	S/no - Kk1pt 0029 meter HANDLED. METER WIND OVER TO SITE FOR PERMANENT WINDING FROM NEARBY CABLES (BATTERY) FASE		(1) no daily fault 19-03-15 19-03-15
7	17-3-2015	S/no - Kk1pt 0023 WORKING CORRECT		
8	05-11-2015	S/no - A4A0V00181 winding fault.	meter sent to repairing to same electrician.	(1) no Vd 19-03-15 19-03-15
9	24-12-2015	S/no - Kk1pt 0029. Damage meter back impulse changed seal (removed from service store)	Sent to same electrician.	2nd 12/2014
10	2-12-2015	S/no - A4A0V00181 return after repairing. fitted running good.	checked & noted with electrician note.	2nd 12/2014
11	5-5-2016	S/no - A4A0V00181. Winding insulation check Value difference 10.0, 7.5, 10.2 Amps.	checked by electrician found ok.	2nd 12/2014
12	10-5-2018	S/no - A4A0V00181 heavy fault	After same reported on 24-5-2016 sent to repairing	2nd 12/2014 Permanence (electrician)

SUMMER PLANT - I (SUMMER II).

BRIEF WORK ORDER DETAILS

MAKE - GRINDFOS (MONOBLOCK SUMMER/SILE TYPE).

KW - 7.5 / 10 HP

FLOW - 30.0 cum/hr

HEAD - 27 mtr

RPM - 2970.

MODEL - SMART SUB MOT 2.5-7.5

S/N - K714 F00121

NEW MOTOR EXTRACTED DATE:- 13/2/2015.

INSTRUMENT NO - KPS 1040

MAKE - KIRANAKAR (MONO BLOCK).

HP - 10 HP

KW - 7.5 KW.

RPM - 2900.

AMPS - 15A.

S.NO: 0509K000828.

SERVICING DATES / COMPLAINT ATTENDED

S.NO	DATE	DESCRIPTION OF WORK DONE	REMARKS	FAULT ATTENDED BY
①	1-8-2013	Back wash motor - Hose pipe broken.	For replacement climbed to Newdawn	Checked by Rajendran Sir.
②	27-9-2013	New Hose pipe fixed and motor started.	6 meters New Hose pipe climbed from Newdawn.	Karthik plumber, Anthony plumber, Kanning (Newdawn)
③	4-9-2013	Back wash motor removed from Sump II erected in STD-II for drainage water discharging from manhole.	Permitted by Rajendran Sir, Elango Sir.	Karthik plumber, Prabhakaran electrician
④	20-1-2014	Back wash motor erected in Raw water Sump and checked.	Amps B-13.1 Y-13.1 R-13.1	Radhishuman electrician.
⑤	11-2-2014	New MCB (4 pole) - 64 Amps. make - Legrand changed for replacement to High pressure motor in R-2 plant	Amps 16A checked and motor runned. 13.1, 13.1, 13.1	Radhishuman electrician.
⑥	4/2/2014	Backwash motor Yellow phase opened. Red phase - 9.5, Green phase - 9.5	Removed from Sump with electrician Radhishuman plumber.	
		Sent to shops for repairing on (MOTOR NOT SENT SINCE MANUFACTURER WANT REPLACEMENT FROM NEWDAWN - OVERSILE TIME)		
⑦	5/7/2014	MOTOR HANDOVER IN STORE FOR REPLACEMENT FROM NEWDAWN ENDS (TEMPORARY)	MOTOR UNDER REPAIRING PAULT (CIRCUIT ONLY)	OF 07-14 Sent to shops for repairing on (CIRCUIT ONLY)

