

**Report of the Committee submitted to the Hon'ble NGT in the order
Dated 12.12.2019 in original application No.410 of 2013 (SZ)**

REPORT PREPARED BY

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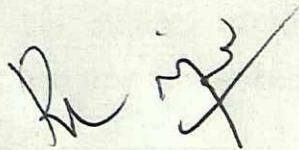
OCTOBER 2020

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As per the Hon'ble NGT direction in OA No 517/2018, the committee prepared and approved the compliance report and it is respectfully submitted



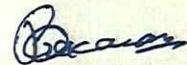
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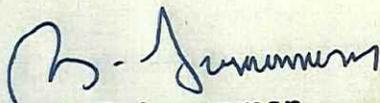
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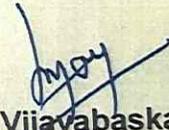
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The Hon'ble NGT vide Order date:12.12.2019 in O.A No.410 of 2013 has directed as follows:

1. Whether the remedial measures provided for drying the remnant salt that has been left out after manufacturing of "Mor Milagai" is sufficient?
 2. Whether the quantity of remnants of the product has been completely removed and any further steps taken for continuous removal of the same to safer place?
 3. Whether the soil and water quality has been improved, if not, what is the remedial measures to be taken for restoring the damage caused to soil as well as ground water and the amount required for the remedial measures and also assess the environment compensation taking into these aspects including the damage caused to soil and water, loss of service to ecology and cost required for restoration of the same.
- I. The Committee submits its reply to the **first direction** ("Whether the remedial measures provided for drying the remnant salt that has been left out after manufacturing of "Mor Milagai" is sufficient? ") of the Hon'ble National Green Tribunal as below :
1. The Committee noted that the Mor Milagai units have provided solar evaporation pans to evaporate the waste water arising out of Mor Milagai manufacturing are found to be intact.
 2. The Committee also observed that some of the Mor Milagai units were not operated because of the COVID Pandemic.
 3. The waste water containing remnant salt was found to be dried in the solar evaporation pan and hence the water content in the effluent is totally evaporated and only salt remains.
 4. As the effluent is converted in to salt and collected and sent for disposal, there is no further possibility of effluent directly discharging on land. Hence the solar evaporation pans provided were found to sufficient.

- II. The Committee submits its reply to the **second direction** ("Whether the quantity of remnants of the product has been completely removed and any further steps taken for continuous removal of the same to safer place? ") of the Hon'ble National Green Tribunal as below :
1. The Mor Milagai unit wise generation of salt and disposal were obtained from the industries by TNPC Board officials and tabulated. From the Table it is observed that all the salt collected from the solar evaporation pan were disposed through M/s.Arunachala Enterprises (approved transporter of waste from Industries by TNPCB) to a facility at Ahara Kadambanur village in Vedaranyam Taluk, Nagapattinam District for treatment.
 2. The details of salt generated and disposed by Mor Milagai units are given in Table-1 which is enclosed as **Annexure-I** which shows that the salt generated upto 30.09.2019 is 6557.5 kg. This quantity of salt was disposed on 07.11.2019 and again an accumulated quantity of 330 kg was also collected and disposed as done earlier.
 3. The subsequent salt generation was mentioned as nil due to two reasons :
(i) due to non operation of some Mor Milagai units in the pandemic situation (ii) the effluent disposed in the solar evaporation pan is yet to dry completely to become salt for disposal.
 4. The District Environmental Engineer, TNPC Board a Member of this Committee was asked to ensure disposal of further generation of salt as practiced now continuously in future too.
- III. The Committee submits its reply to the **third direction** ("Whether the soil and water quality has been improved, if not, what is the remedial measures to be taken for restoring the damage caused to soil as well as ground water and the amount required for the remedial measures and also assess the environment compensation taking into these aspects including the damage caused to soil and water, loss of service to ecology and cost required for restoration of the same") of the Hon'ble National Green Tribunal as below :
1. Water samples and the soil samples were collected by TNPC Board Officials and sent for analysis to find out whether soil and water quality has improved comparing to previous year samples collected during 2019.

2. From the Report of Analysis it is found that the Total Dissolved Solids (TDS) which is a proportion of Electrical Conductivity (EC) which influences the plant growth has lowered.
3. The water samples collected and analysed in the year 2019-2020 when compared, showed that there is a reduction of Total Dissolved Solids (TDS) which may be because of stoppage of effluent on land by the mor milagai units and subsequent rainfalls in the current year. The rain fall data collected from the Department of Economics and Statistics to assess the rainfall pattern is enclosed vide **Annexure – II**.
4. The Committee also observed that coconut trees are grown in the questionable area were found to be healthy.
5. Some of the photographs taken in the area showing the trees status is shown below in **Annexure – III**.

CONCLUSION

As per the three direction of the Hon'ble NGT in its order dated 12.12.2019 of O.A.No 410 of 2013 the committee thoroughly examined water and the soil within a radius of 5 km and soil quality analysis carried out are compared with the values in the years 2019 and 2020 and the inference drawn is indicated as Bar charts as well as Graphs. The ROA, Contour map and Rainfall data used for this study are enclosed vide Annexures.

From the study it is clearly understood that:

- a) The remedial measures provided by the Mor Milagai units for drying remnant salt is sufficient.
- b) The quantity of salt produced sofar was disposed and the fresh salt yet to dry need to be disposed.
- c) The soil and water quality were found to have improved by comparing the ROA of last year with the current year ROA. Pictorial

representations as bar charts, Graph and the values of ROA are given as Annexures. As the soil and water quality are found to be improving there is no need for levy of any further Environmental Compensation.

Recommendation of the Committee:

- i. The District Environmental Engineer a member of the Committee should take up routine inspections to ascertain the proper operation of the solar evaporation pan intended to dispose the waste water containing remnant salt in future also.
- ii. The District Environmental Engineer a member of the Committee should monitor the Mor Milagai units to regularly for the proper collection and disposal of the dried salt from the solar evaporation pans by the units.
- iii. The District Environmental Engineer a member of the Committee shall advice the Mor Milagai units to provide rain water harvesting pits in the lowest sloppy area in the unit for recharge of rain water for improvement of quality of ground water.
- iv. The District Environmental Engineer a member of the Committee shall also monitor the ground water and soil samples for atleast once in a year for further period of three years so as to assess the improvement of water and soil quality.

ANNEXURE – I

Salt generated and disposed by Mor Milagai units

Sl. No.	Booklet No	Industry Name and Address	Accumulated Waste Salt 30.09.2019	Accumulated Waste Salt 01.10.2019 to 07.11.2019	Total Disposal 21.11.2019 as per M/s. Arunachala enterprises letter dated	Remaining Salt
1	1	S. Gopi,S/o.Subbaiah, Ward -15, Mahathma gandhi street, Bolihammanoor.	400	2	402	Nil
2	2	R. Subbaiah, S/o. Ramasamy chettiyar, Ward -15, Mahathma gandhi street, Bolihammanoor.	33.3	3	36.3	Nil
3	3	K.Natchimuthu, S/o. Karuppan goundar, Ward -15, Mahathma gandhi street, Bolihammanoor.	33.3	3	36.3	Nil
4	4	C.Duraisamy, S/o. Chinnasamy, Ward -14, Boss street, Bolihammanoor.	35.3	3	38.3	Nil
5	5	T.R. Murugesan, Ward -14, Boss street, Bolihammanoor.	40	3	43	Nil
6	6	M.Angusamy, S/o. Muthappa goundar, Boss street, Bolihammanoor.	36	2	38	Nil
7	7	K. Murugesan S/o. Krishnan, Ward -14, Boss street, Bolihammanoor.	35.3	3	38.3	Nil
8	8	S.R. Murugesan, S/o. Ramasamy, Ward -14, Boss street, Bolihammanoor.	31.6	3	34.6	Nil
9	9	T.R.Murugesan, S/o. Ramasamy chettiyar, Ward -12, Goundar street, Bolihammanoor.	40	2	42	Nil

10	10	S.R. Murugesan, S/o. Ramasamy, Ward -12, Goundar street, Boliyammanoor.	60	3	63	Nil
11	11	C.Meenatchi Sundaram, S/o. Chinnapp thevar, Ward -12, Goundar street, Boliyammanoor.	40	3	43	Nil
12	12	P.Mariyappan Goundar, S/o. Periyana Goundar, Ward -12, Goundar street,Boliyammanoor.	35	3	38	Nil
13	13	K. Andivel Mor Milagai UnitKumarevel, (Unit-I)S/o. Andivel,Ward -12, Goundar street,Boliyammanoor.	40	3	43	Nil
14	14	P.Vellaichamy, S/o. Periyasamy, Ward -12, Goundar street, Boliyammanoor.	40	3	43	Nil
15	16	R.Subbaiah (Unit-II) S/o. Ramasamy Chettiyar, Ward -12, Goundar street, Boliyammanoor.	33.3	2	35.3	Nil
16	17	V.Bose, S/o. Veerasamy Maniyam, Ward -12, Goundar street, Boliyammanoor.	40	3	43	Nil
17	18	M.Backiyammal, W/o Murugan, Ward -12, Goundar street, Boliyammanoor.	20	2	22	Nil
18	19	M/s. T. Nalladurai Mor Milagai Unit (Formely R.Thanagaraj) S/o. Ramasamy. Ward -12, Goundar street, Boliyammanoor.	40	3	43	Nil
19	21	S.R.Murugesan, S/o. Ramasamy Chettiyar, Goundar street, Boliyammanoor.	32	2	34	Nil

20	24	R.K.Senthil, S/o. Krishnan, Ward -12, Goundar street, Boliyammanoor.	34	3	37	Nil
21	25	M.Katturaja, S/o. Muthukamatchi, Ward -12, Goundar street, Boliyammanoor.	24	1	25	Nil
22	26	P.Maragathamani, S/o. Periyasamy, Ward -12, Goundar street, Boliyammanoor.	40	3	43	Nil
23	27	R.Mariyappan, S/o. Ramasamy Goundar, Ward -12, Goundar street, Boliyammanoor.	36	2	38	Nil
24	30	R.Periyasamy, S/o. Ramasamy, Ward -12, Goundar street, Boliyammanoor.	40	3	43	Nil
25	32	T.Chelladurai, S/o. Thangaraj, Ward -12, Goundar street, Boliyammanoor.	40	3	43	Nil
26	33	V.Kathirvel, S/o. Veerappa thevar, Ward -12, Goundar street, Boliyammanoor.	34.4	2	36.4	Nil
27	34	M/s. S. JEYA MOR MILAGAI UNIT(Formely V.Sivalingam,S/o. Vellasamy pillai)Ward -12, Goundar street, Boliyammanoor.	36	2	38	Nil
28	36	B. Kaliappan Mor Milagai Unit P.Kaliyappan, S/o. Pommaiya thevar, Ward -12, Goundar street, Boliyammanoor.	29	3	32	Nil

29		S.Tamilarasi, W/o Subbramani, Ward -12, Goundar street, Boliyammanoor.	35	0	35	Nil
30	39	M.Vadamalai, S/o. Muthuchamy Goundar, Ward -15, Karattupatty street, Boliyammanoor.	50	2	52	Nil
31	40	K.Rajendiran, S/o. Karuppana Goundar, Ward -15, Karattupatty street, Boliyammanoor.	38	3	41	Nil
32	45	K.G.Jothimani Mor Milagai Watrd 13 Goundar street, Boilammanoor	32	2	34	Nil
33	46	K. Arumugam Mor Milagai Unit S.Kandasamy, (Unit-I) S/o. Samyappa Goundar, Ward -13, Goundar street, Boliyammanoor.	38	3	41	Nil
34	47	B.Jeyalakshmi, W/o.Boopathi, Ward -13, Goundar street, Boliyammanoor.	39	3	42	Nil
35	48	K.Vanjiyappan, S/o. Karuppa Goundar, Ward -13, Goundar street, Boliyammanoor.	31	2	33	Nil
36	49	K.Palanisamy, U-II S/o.Nallappa Goundar, Ward -13, Goundar street, Boliyammanoor.	38	3	41	Nil
37	50	L.Krishnan, S/o.Lakshmanan Chettiar, Ward -13, Goundar street, Boliyammanoor.	43	2	45	Nil
38	85	P.Muthu Lakshmi S/o.Muthuperumal, Ward -13, Goundar street, Boliyammanoor.	35	2	37	Nil

39	52	P.Sivagami, W/o.Thirumalaisamy, Ward -13, Goundar street, Boliyammanoor.	35	2	37	Nil
40	53	R. Chellam Mor Milagai Unit(Formely K.Ramakrishnan)S/o.Kandasam y,Ward -13, Goundar street, Boliyammanoor.	34	3	37	Nil
41	54	T. Nageswari (Formely A.Thirumalaisamy, S/o.Alagarsamy,) Ward -13, Goundar street, Boliyammanoor.	35	2	37	Nil
42	56	M/s. B. Balasubramani Mor Milagai Unit (formely P. Subramani) S/o.Bolanaga Goundar, Ward -13, Goundar street, Boliyammanoor.	26	2	28	Nil
43	57	S.Dhanalakshmi, W/o.Sakthivel, Ward -13, Goundar street, Boliyammanoor.	37	3	40	Nil
44	58	D.Kandasamy, (U-I) West S/o.Duraisamy, Ward -13, Goundar street, Boliyammanoor.	33	3	36	Nil
45	59	D.Kandasamy, (U-II) East S/o.Duraisamy, Ward -13, Goundar street, Boliyammanoor.	40	3	43	Nil
46	61	Velusamy, S/o. Kandhasamy Ward -13, Goundar street, Boliyammanoor.	37	3	40	Nil
47	63	M. Palaniyappan, S/o.Muthusamy goundar Ward -13, Goundar street, Boliyammanoor.	18	1	19	Nil

48	64	C.Jeyaraman, (Unit-I) East S/o.Chinnachamy, Ward -13, Goundar street, Boliyammanoor.	38	2	40	Nil
49	65	C.Jeyaraman, (Unit-II) West, S/o.Chinnachamy, Ward -13, Goundar street, Boliyammanoor.	40	2	42	Nil
50	66	C. Alaguraj, U-I, East S/o.Chinnamuthu, Ward -13, Goundar street, Boliyammanoor.	30	3	33	Nil
51	71	P.Vellimalai, S/o.Palanivel, Ward -13, Goundar street, Boliyammanoor.	40	2	42	Nil
52	72	A.Palanisamy, S/o.Alagarsamy, Ward -13, Goundar street, Boliyammanoor.	40	2	42	Nil
53	74	T.Chanthira, W/o.Thirumoorthi, Ward -13, Goundar street, Boliyammanoor.	40	2	42	Nil
54	75	R.Sakthivel,S/o. Ramasamy Ward -13, Goundar street, Boliyammanoor.	38	3	41	Nil
55	76	A.Thirumoorthy, S/o.Alagarsamy, Ward -13, Goundar street, Boliyammanoor.	38	3	41	Nil
56	77	K.Rathinam, S/o.Kumaresan. Ward -13, Goundar street, Boliyammanoor.	39	3	42	Nil
57	78	P.Rajendran, S/o.Palaniyappa thevar, Ward -13, Goundar street, Boliyammanoor.	37	3	40	Nil
58	79	P.Muthusamy, S/o.Palaniyappa thevar, Ward -13, Goundar street, Boliyammanoor.	37	3	40	Nil

59	80	P. Maragathamani, S/o.Periyasamy, Ward -13, Goundar street, Boliyammanoor.	40	2	42	Nil
60	81	P.Ponnusamy,(U-I) S/o.Palanisamy, Ward -13, Goundar street, Boliyammanoor.	40	2	42	Nil
61	82	M/S. P.THIRUMALAISAMY MOR MILAGAI UNIT (Formely M.Thirumalaisamy, S/o.Mottaiyappan) Ward -13, Goundar street, Boliyammanoor.	33	2	35	Nil
62	83	P.Thirumalaisamy, S/o.Perumal, Ward -13, Goundar street, Boliyammanoor.	32	3	35	Nil
63	84	M/s. T. Ravikumar Mor Milagai Unit R.Ravi S/o.Rajan Ward -13, Goundar street, Boliyammanoor.	29	2	31	Nil
64	51	P.Muthulakshmi, W/o.Perumal, Ward -13, Goundar street, Boliyammanoor.	27	3	30	Nil
65	86	N.Thirumalaisamy, S/o.Nagana Goudar, Ward -13, Goundar street, Boliyammanoor.	39	3	42	Nil
66	87	K.Sakthivel, S/o.Karuppana Goundar, Ward -13, Goundar street, Boliyammanoor.	75	2	77	Nil
67	88	P.Muruganatham, (U-I), East sideS/o.Perumal,Ward -13, Goundar street, Boliyammanoor.	39	3	42	Nil

68	89	T.Sivagami, W/o.Thirumalaisamy, Ward -13, Goundar street, Boliyammanoor.	35	3	38	Nil
69	90	M/s. S. Suguna Mor Milagai Unit (Formely T. Kandasamy) T.Kandasamy, S/o.Thirumalaisamy, Ward -13, Goundar street,Boliyammanoor.	37	3	40	Nil
70	91	V. Mahalakshmi, D/o.Vellasamy, Ward -13, Goundar street,Boliyammanoor.	33	3	36	Nil
71	94	K.Ramasamy, (U-II) West S/o.Kumar, Ward -13, Goundar street,Boliyammanoor.	34	3	37	Nil
72	95	P.Ponnusamy, (U-II), West S/o.Palanisamy, Ward -13, Goundar street, Boliyammanoor.	40	3	43	Nil
73	96	N. Perumal, S/o. Nallanchettiar Ward -13, Goundar street, Boliyammanoor.	40	3	43	Nil
74	97	P.Thirumalaisamy Unit-II S/o.Perumal, Ward -13, Goundar street, Boliyammanoor.	35	3	38	Nil
75	99	P.Karuppusamy Unit - I S/o.Perumal, Ward -13, Goundar street,Boliyammanoor.	80	2	82	Nil
76	100	S.Dhanalakshmi, W/o.T. Sakthivel, Ward -13, Goundar street,Boliyammanoor.	37	3	40	Nil

77	101	M. Usha (Formely P.Magudeeswaran, S/o.Periyasamy), Ward -13, Goundar street, Boliyammanoor.	32	3	35	Nil
78	102	K. Murugan, S/o.M.Karuppanan, Ward -13, Goundar street, Boliyammanoor.	39	3	42	Nil
79	104	P.Thangavel, S/o.Pethulu, Ward -13, Goundar street,Boliyammanoor.	36	3	39	Nil
80	105	P.PandiammalW/o.Paramasive m,Ward -13, Goundar street,Boliyammanoor.	28	3	31	Nil
81	106	M.Karthick, S/o.Muthusamy, Ward -13, Goundar street, Boliyammanoor.	40	3	43	Nil
82	107	K.Natchimuthu, S/o. Kaliappa goundar, Ward -13, Goundar street,Boliyammanoor.	40	3	43	Nil
83	108	M.Balakrishnan, S/o.Muthuvel, Ward -13, Goundar street,Boliyammanoor.	40	3	43	Nil
84	109	K.Nallasivam, S/o.Karuppasamy Goundar, Ward -13, Goundar street,Boliyammanoor.	31	3	34	Nil
85	110	A.Raj, S/o. Alagar, Ward -13, Goundar street,Boliyammanoor.	37	3	40	Nil
86	111	S.Sekar, S/o.Subban, Ward -13, Goundar street,Boliyammanoor.	40	3	43	Nil

87	112	P.Muthusamy, S/o.Pethan, Ward -13, Goundar street,Boliammanoor.	36	3	39	Nil
88	113	P.Palanichamy, S/o.Ponnan, Ward -13, Goundar street,Boliammanoor.	40	3	43	Nil
89	115	P.Murugan, S/o.Pethen, Ward -13, Goundar street,Boliammanoor.	40	3	43	Nil
90	116	M.Veerappan, S/o.Muthu, Ward -13, Goundar street,Boliammanoor.	37	3	40	Nil
91	117	K.Ragaven, S/o.Kittan, Ward -13, Goundar street,Boliammanoor.	23	3	26	Nil
92	118	S.Mariyammal, W/o.K.ShanmugamWard -13, Goundar street,Boliammanoor.	25	2	27	Nil
93	119	K.Rasu S/o.Karunthan Ward -13, Goundar street, Boliammanoor.	35	3	38	Nil
94	120	M.Vijayamani,W/o.Muthu,War d -13, Goundar street,Boliammanoor.	40	3	43	Nil
95	121	V. Chinnappan Ward -13, Goundar street, Boliammanoor.	40	3	43	Nil
96	122	M.Thangaraj, S/o.Muthukamatchi, Ward -13, Goundar street, Boliammanoor.	36	3	39	Nil

97	123	K.Mariyathal, W/o.Kandasamy, Ward -13, Goundar street, Boliyammanoor.	35	3	38	Nil
98	124	K.Eswari, W/o.Krishnan, Ward -13, Goundar street, Boliyammanoor.	33	3	36	Nil
99	125	M/s. T. Mummoorthy Mor Milagai Unit (Formerly T.Rama Moorthy), S/o.Thiruman, Ward -13, Goundar street, Boliyammanoor.	34	2	36	Nil
100	126	K.Chelladurai, S/o.Kaliyappa, Ward -13, Goundar street, Boliyammanoor.	37	3	40	Nil
101	127	P.Chellapandi, S/o.Palanisamy, Ward -13, Goundar street, Boliyammanoor.	35	2	37	Nil
102	128	N.Muniyappan, S/o.Natchimuthu, Ward -13, Goundar street, Boliyammanoor.	36	3	39	Nil
103	129	P.Karuppaiah, S/o.Perumal, Ward -13, Goundar street, Boliyammanoor.	321	2	323	Nil
104	130	K.Kalavathy, D/o.Karuppaiah, Ward -13, Goundar street, Boliyammanoor.	196	2	198	Nil
105	131	R. Ragavendra (Formely R.Chanthiran, S/o.Ramasamy), Ward -13, Goundar street, Boliyammanoor.	32	3	35	Nil

106	133	B. Balasubramani (formerly P.Subramani) D/o.Polana Goundar, Ward -13, Goundar street, Boliyammanoor.	40	3	43	Nil
107	134	P.Velusamy, S/o.Pethan, Ward -13, Goundar street, Boliyammanoor.	35	3	38	Nil
108	135	P.Manikandan,S/o.Pethan,War d -13, Goundar street,Boliyammanoor.	58	3	61	Nil
109	137	S.Palanimani, W/o.Sivasubramani, Ward -13, Goundar street, Boliyammanoor.	346	3	349	Nil
110	138	P.Sivasubramani, S/o.Perumal, Ward -13, Goundar street, Boliyammanoor.	360	1	361	Nil
111	139	S.Subbaiah, S/o.Sennimalai Goundar, Ward -13, Goundar street, Boliyammanoor.	39	3	42	Nil
112	140	K.Kaleeswaran, S/o.Karuppana Goundar, Ward -13, Goundar street, Boliyammanoor.	84	3	87	Nil
113	141	P.Karuppasamy U-II, S/o.Perumal chettiyar, Ward -13, Goundar street, Boliyammanoor.	200	1	201	Nil
114	142	V.Subramani, S/o.Vellasamy, Ward -13, Goundar street, Boliyammanoor.	40	3	43	Nil
115	143	A.Muthumahenthiran, S/o.Angusamy, Ward -13, Goundar street, Boliyammanoor.	80	3	83	Nil

116	145	K. Karuppana Gounder S/o.Karuppanan, Ward -13, Goundar street, Boliyammanoor.	40	3	43	Nil
117	146	P.Balasubramani, S/o.Palanichamy Goundar, Ward -13, Boss street, Boliyammanoor.	36	3	39	Nil
118	147	S.Balamurugan, S/o.Subbaiah, Ward -13, Boss street, Boliyammanoor.	30	2	32	Nil
119	148	M.Pappathi, W/o.Murugan, Ward -13, Boss street, Boliyammanoor.	40	2	42	Nil
120	149	K.Bhavani, W/o.Kannusamy, Ward -13, Boss street, Boliyammanoor.	40	2	42	Nil
121	150	P.Balasubramani, S/o.Palaniyappa Goundar, Ward -13, Boss street, Boliyammanoor.	36	2	38	Nil
122	151	N.Thiyagamoorthy,S/o.Natchim oorthy,Ward -13, Boss street,Boliyammanoor.	30	2	32	Nil
123	153	G.Meenambigai, W/o.Gopi, Ward -13, Boss street, Boliyammanoor.	80	2	82	Nil
124	29	V.Karuppusamy, /o. Vanjiyappan Goundar, Ward -12, Goundar street, Boliyammanoor.	77	3	80	Nil
125	92	K.Ramasamy, (U-l) East S/o.Kumar, Ward -13, Goundar street, Boliyammanoor.	32	2	34	Nil

126	28	K.Pushparaj, S/o. Kumaravel, Ward -12, Goundar street, Boliyammanoor.	34	1	35	Nil
127	22	K.Karthikeyan Mor Milagai S.F.No 146/19 Boliyammanur, Kodalvavi Village, Dindigul West Taluk, Dindigul District	34	1	35	Nil
128	144	M.Mangayarkarasi Mor Milagai S.F.No 114/4C Boliyammanur, Kodalvavi Village, Dindigul West Taluk, Dindigul District	32	1	33	Nil
129	82	T.Saraswathi mor milagai, S.F.No 118/5A, 1 P Boliyammanur, Kodalvavi Village, Dindigul West Taluk, Dindigul District	32	1	33	Nil
130	94	M/s. K. Ramasamy Mor Milagai Boliyammanur, Kodalvavi Village, Dindigul West Taluk, Dindigul District	34	2	36	Nil
			6557.5	330	6887.5	

ANNEXURE - II

RAINFALL DATA FOR THE YEAR 2001 TO 2020

Source: Department of Economics and Statistics.

TIME SERIES DATA OF RAIN FALL BY SEASONS (LAST YEARS) 2001 - 2020												
		South West Monsoon		North East Monsoon		Winter Season		Hot Weather Season		Total		% Deviation (+ or - or =) From Normal
		Normal (mm)	Actual (mm)	Normal (mm)	Actual (mm)	Normal (mm)	Actual (mm)	Normal (mm)	Actual (mm)	Normal (mm)	Actual (mm)	
1	2001-02	270.8	197.8	432.4	305.7	50.8	52.7	174.2	71.99	928.2	628.1	-32
2	2002-03	270.8	147.4	432.4	428.4	50.8	6.98	174.2	207.1	928.2	789.8	-15
3	2003-04	251.4	297.3	399.2	396.6	33	---	148	238.9	831.6	932.8	12.2
4	2004-05	251.4	373.3	399.2	430.5	33	34.3	148	286.1	831.6	1124.2	35.2
5	2005-06	251.4	247.5	399.2	741.2	33	18.4	148	191.3	831.6	1198.4	44.1
6	2006-07	251.4	2251.1	399.2	425	33	9.5	148	91.5	831.6	751.1	-9.7
7	2007-08	251.4	233.4	399.2	590.2	33	38.5	148	298.5	831.6	1160.6	39.6
8	2008-09	251.4	349.8	399.2	439.7	33	6.9	148	114.9	831.6	911.3	9.6
9	2009-10	251.4	209.9	399.2	468.6	33	4.2	148	137.3	831.6	820.2	-1.4
10	2010-11	251.4	286	399.2	768.4	33	37.4	148	170.7	831.6	1262.5	51.8
11	2011-12	295.4	180	436.4	617.1	30.9	0.3	168	140.4	930.7	940.5	-1.1
12	2012-13	295.4	175.9	436.4	317	30.9	33.9	168	102.7	930.7	629.5	-32.4
13	2013-14	295.4	174.8	436.4	219.7	30.9	7.3	168	240.3	930.7	642.1	-28.8
14	2014-15	295.4	301.2	436.4	445.6	30.9	32.7	168	359.8	930.7	1139.3	22.4
15	2015-16	295.4	240.1	436.4	486	30.9	0.9	168	108	930.7	835	-10
16	2016-17	295.4	139.77	436.4	238.47	30.9	44.36	168	186.58	930.7	609.18	-34.55
17	2017-18	158.4	496.5	357.9	374.7	35.4	17.1	168.3	238.1	720	1126.4	56.4
18	2018-19	295.4	267	436.4	301.8	30.9	5.7	168	61.4	930.7	635.9	-31.7
19	2019-20	308.4	250.4	470.2	395.3	28.7	1.8	170.8	87.5	978.1	735	-24.9

ANNEXURE- III

The figure -1 shows the growth of Coconut trees near Gopi mor milagai units.



The figure -2 shows the growth of trees near the Natchimuthu mor milagai units.



The figure -3 shows trees grown near the Palanimani mor milagai unit.



The figure-4 shows the Coconut trees grown near Sivasubramani mor milagai unit.



The figure-5 shows the Coconut trees grown near Meenakshisundaram mor milagai unit.



The figure -6 shows the Coconut trees grown near Murugesan mor milagai unit.



The figure -7 shows the growth of Coconut trees near the Meenambigai mor milagai unit.



Annexure – V - A

The comparison Report of analysis of water samples collected in and around of the 5 km radius of the questionable area for the year 2019 and 2020 in respect of pH, TDS, Conductivity is furnished below:

Comparison results

Sl. No	Name of the land Owner	Openwell of Thiru.Bala subramani		Borewell of Thiru.Ravi @ Thiru. Maruthappa Goundar		Open well of Thiru. Nachimuthu		Open well of Thiru. Murugesan		Open well of Thiru. Karuppanagoundar		Open well of Thiru.Kuppu samy		Open well of Thiru. Thirumalais amy	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14
	Well survey	114/4B	112/1C	147/3	29/1	101/2	18/3	23/1							
		2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020
1	pH	7.50	7.16	7.1	7.71	7.1	7.06	7.1	7.00	7.75	8.09	7.50	7.82	7.0	7.09
2	TDS (mg/l)	5159	914	3443	5003	3699	606	1386	2617	1021	4179	1367	5683	917	
3	Electrical Conductivity (Micro mhos/cm)	8060	1428	5380	7818	5780	948	2166	4090	1596	6530	2136	8880	1434	

Annexure – V - B

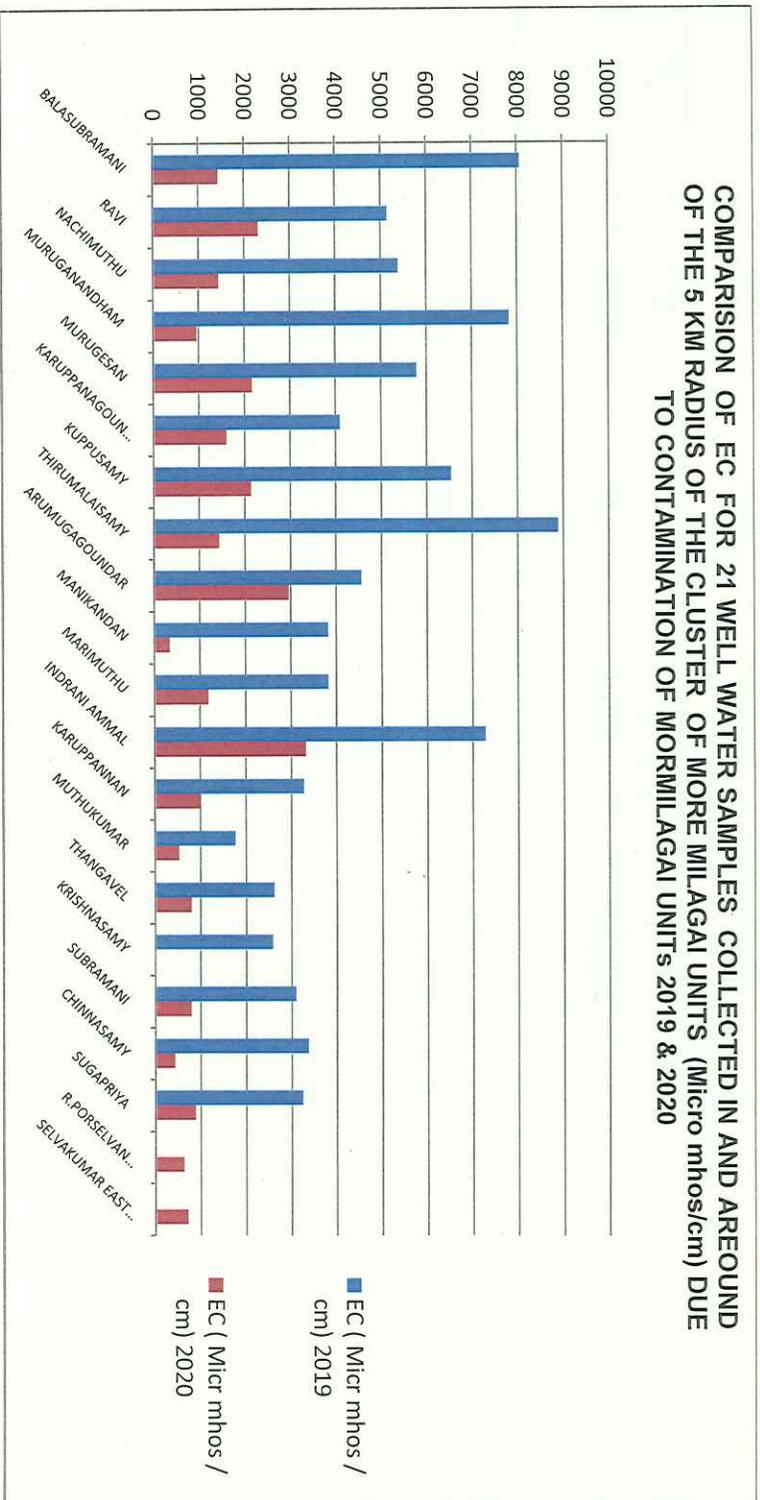
Sl. No	Name of the land Owner	Bore well of Thiru. Arunugagou ndar		Bore well of Thiru. Manikan dan		Open well of Thiru. Marimut hu		Open well of Tmt. Indirani		Open well of Thiru. Karuppanan		Open well of Thiru. Muthukumar		Open well of Thiru. Thanga vel		Open well of Thiru. Krishnasamy	
		2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020	2019	2020
1	pH	7	7.52	7.0	7.11	6.9	7.31	6.7	6.9	7.0	7.46	-7.5	8.00	7.0	7.26	7	No Water
		99/4	433	9/5A	100/2A	9/8A	440/1A1	17/3B	14/3								
2	TDS	2912	1889	2443	213	2443	753	4654	2120	2094	630	1129	332	1676	510	1651	-
		4550	2952	3818	334	3818	1177	7272	3312	3272	985	1765	520	2620	797	2580	-
3	Electrical Conductivity (Micro mhos/cm)	4550	2952	3818	334	3818	1177	7272	3312	3272	985	1765	520	2620	797	2580	-
		99/4	433	9/5A	100/2A	9/8A	440/1A1	17/3B	14/3								

Annexure – V - C

Sl. No	Name of the land Owner	Open well of Thiru. Subramani		Bore well of Thiru.Chinnasamy		Bore well of Tmt.Sugapriya		Non Polluted Area 5 Km radius Distance from the Industriel crusder Thiru.R.Porselvan North Side		Non Polluted Area 5 Km radius Distance from the Industriel crusder Thiru.Selvakumar East Side	
		2019	2020	2019	2020	2019	2020	2019	2020	2019	2020
	Well survey number	17	14/1B	18	1/1	19	12/2A	20	162/1D	21	188/13
1	pH	7	7.21	7.7	8.2	7	7.09	-	7.70	-	7.43
2	TDS	1977	504	2152	270	2071	564	-	398	-	455
3	Electrical Conductivity (Micro mhos/cm)	3090	789	3363	423	3236	882	-	622	-	712

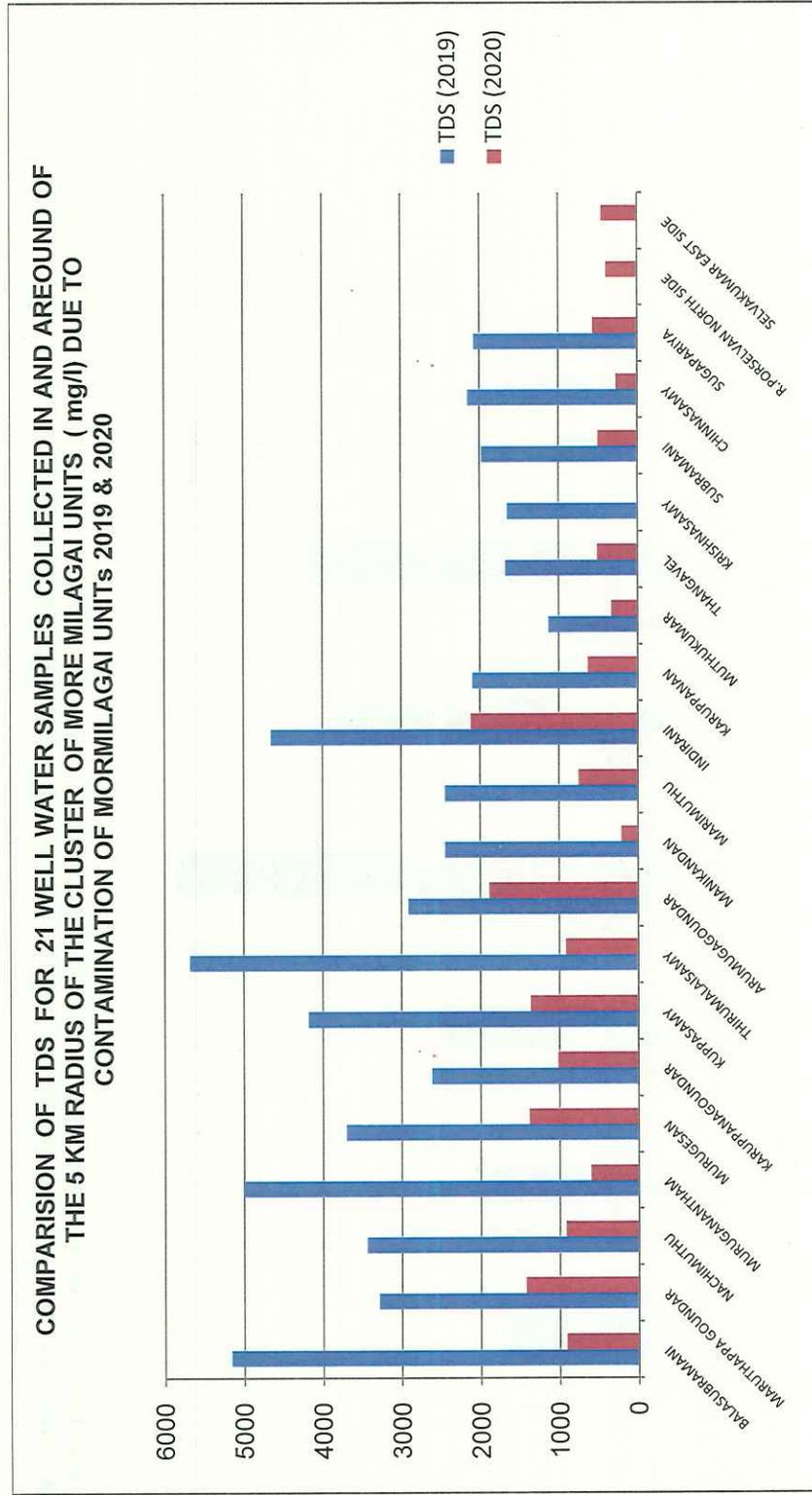
Annexure – VI

The EC and TDS of the ground water samples collected at 21 places (a Contour map showing the location of collection of samples is enclosed vide Annexure - V) were compared for the years 2019 & 2020 shows the change in EC and TDS levels. The Report of Analysis is tabulated and shown in Annexure - VI. It shows that there is a considerable reduction of EC as seen from the bar chart below :



Annexure – VII

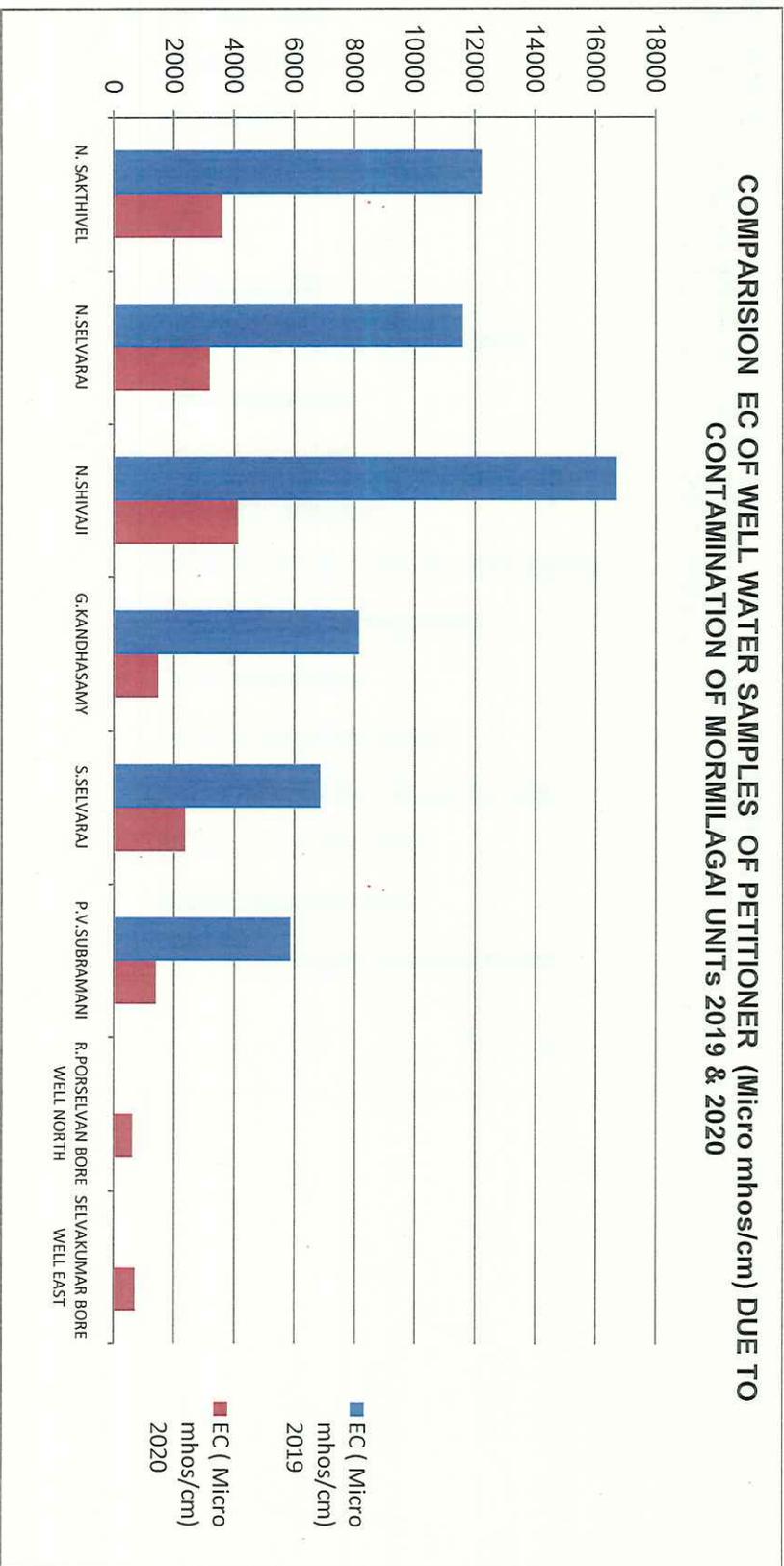
The EC and TDS of the ground water samples collected at 21 places were compared for the years 2019 & 2020 shows the change in EC and TDS levels. It shows that there is a considerable reduction of TDS as seen from the bar chart below :



Comparison of the 2019 & 2020 in the Bar Chart the TDS Value is lowered. So the Pollution load is diluted.

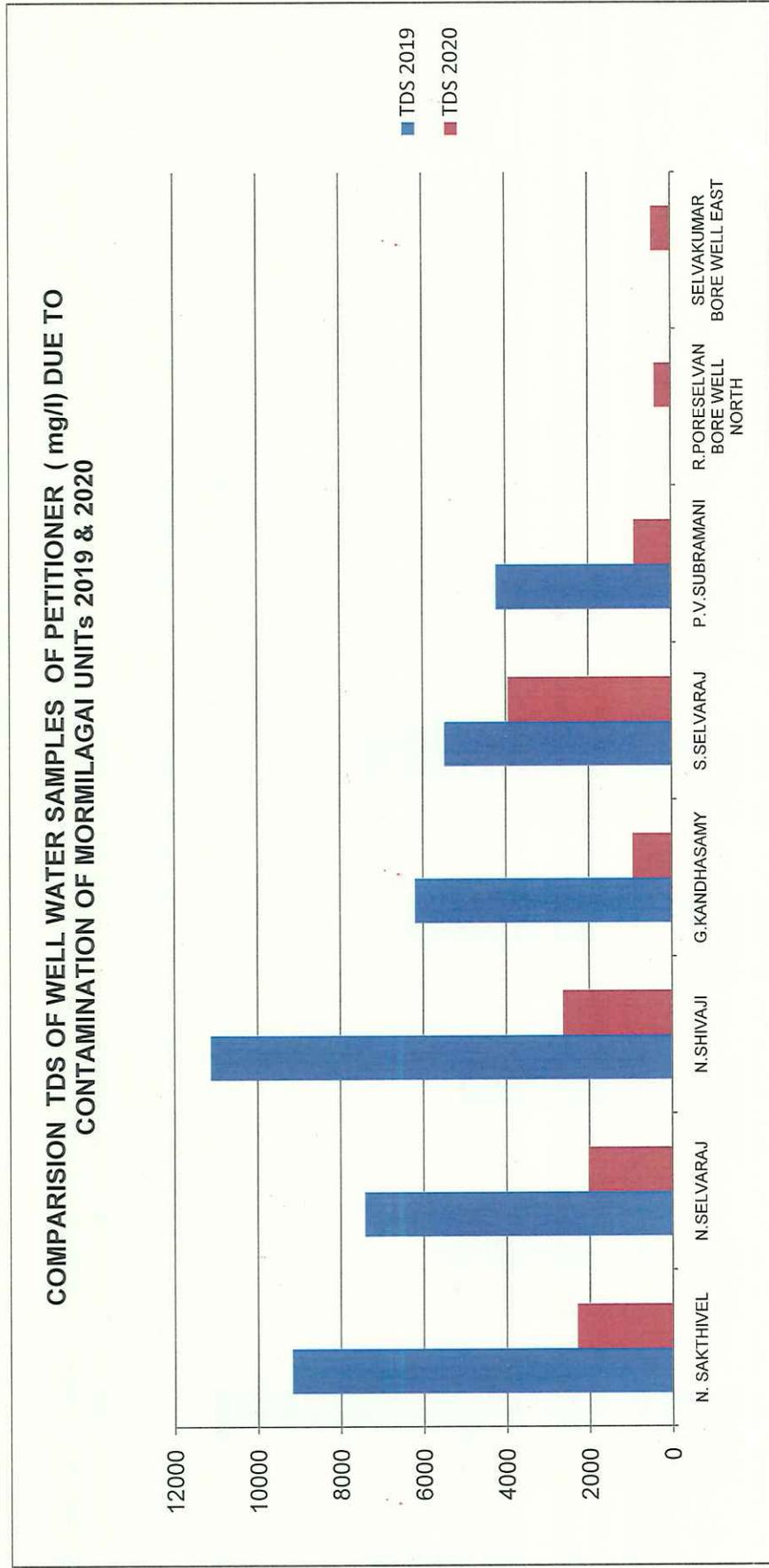
Annexure - VIII

The EC and TDS of the ground water samples collected at Petitioner's well was compared for the years 2019 & 2020 shows the change in EC and TDS levels. It shows that there is a considerable reduction of EC as seen from the bar chart below.



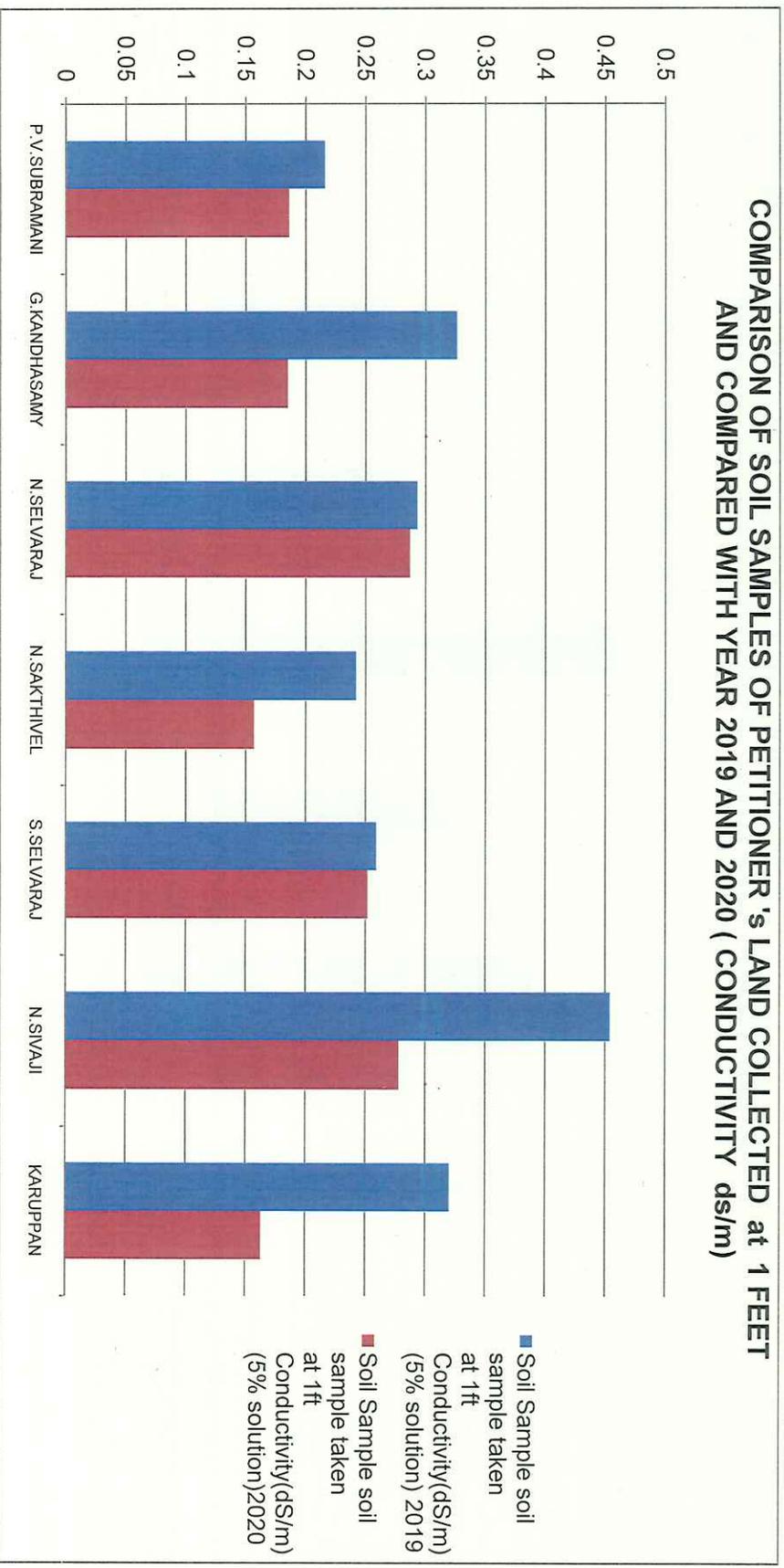
Annexure - IX

The EC and TDS of the ground water samples collected at Petitioner's well was compared for the years 2019 & 2020 shows the change in EC and TDS levels. It shows that there is a considerable reduction of TDS as seen from the bar chart below

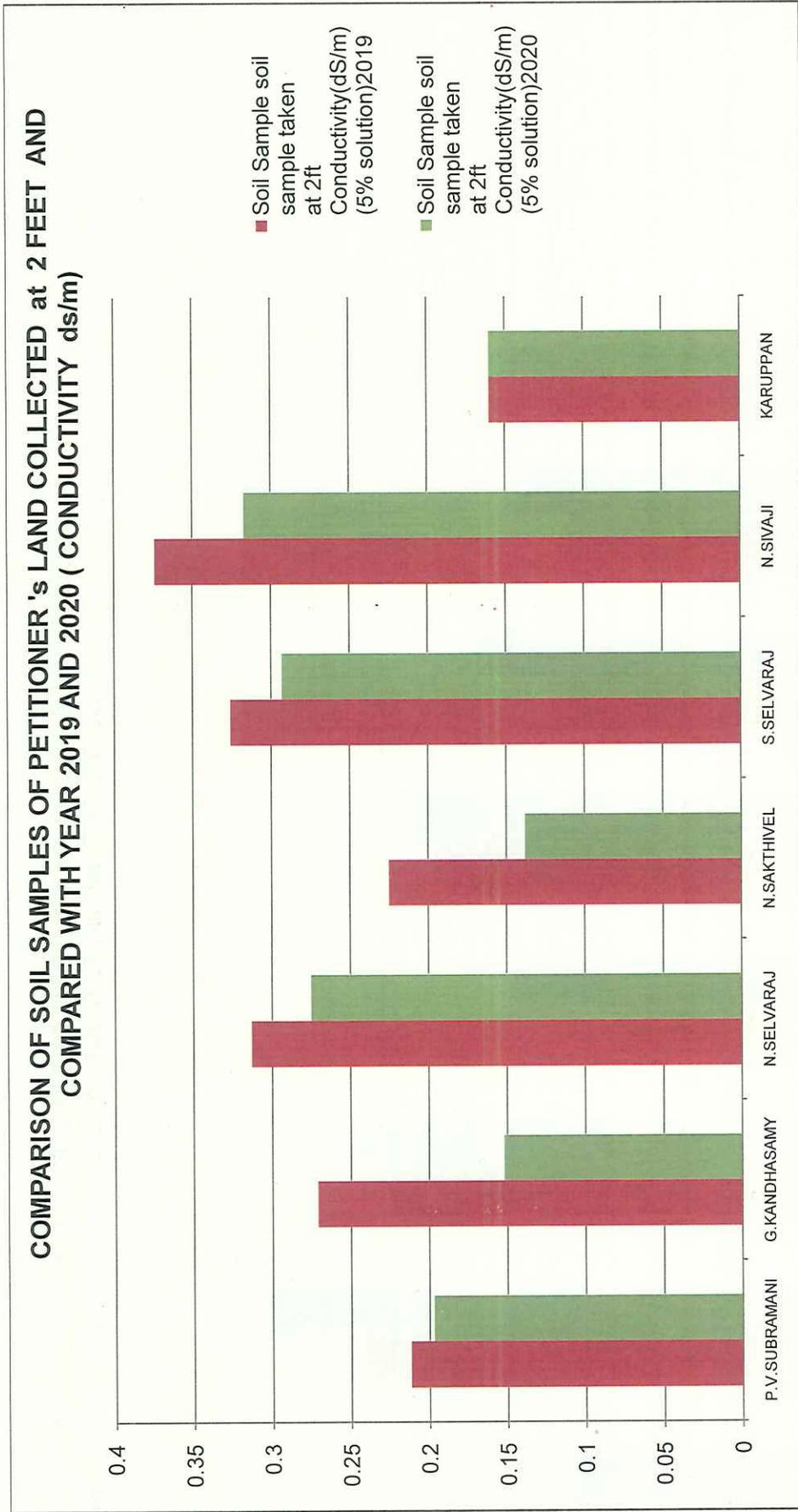


Annexure – X – A (1 Feet)

The EC of the soil sample collected at a depth of one feet, two feet and three feet in the Petitioner's land was compared for the years 2019 & 2020 shows the change in EC level. It shows that there is a reduction of EC as seen from the bar chart below. The ROA is shown in Annexure - VIII.

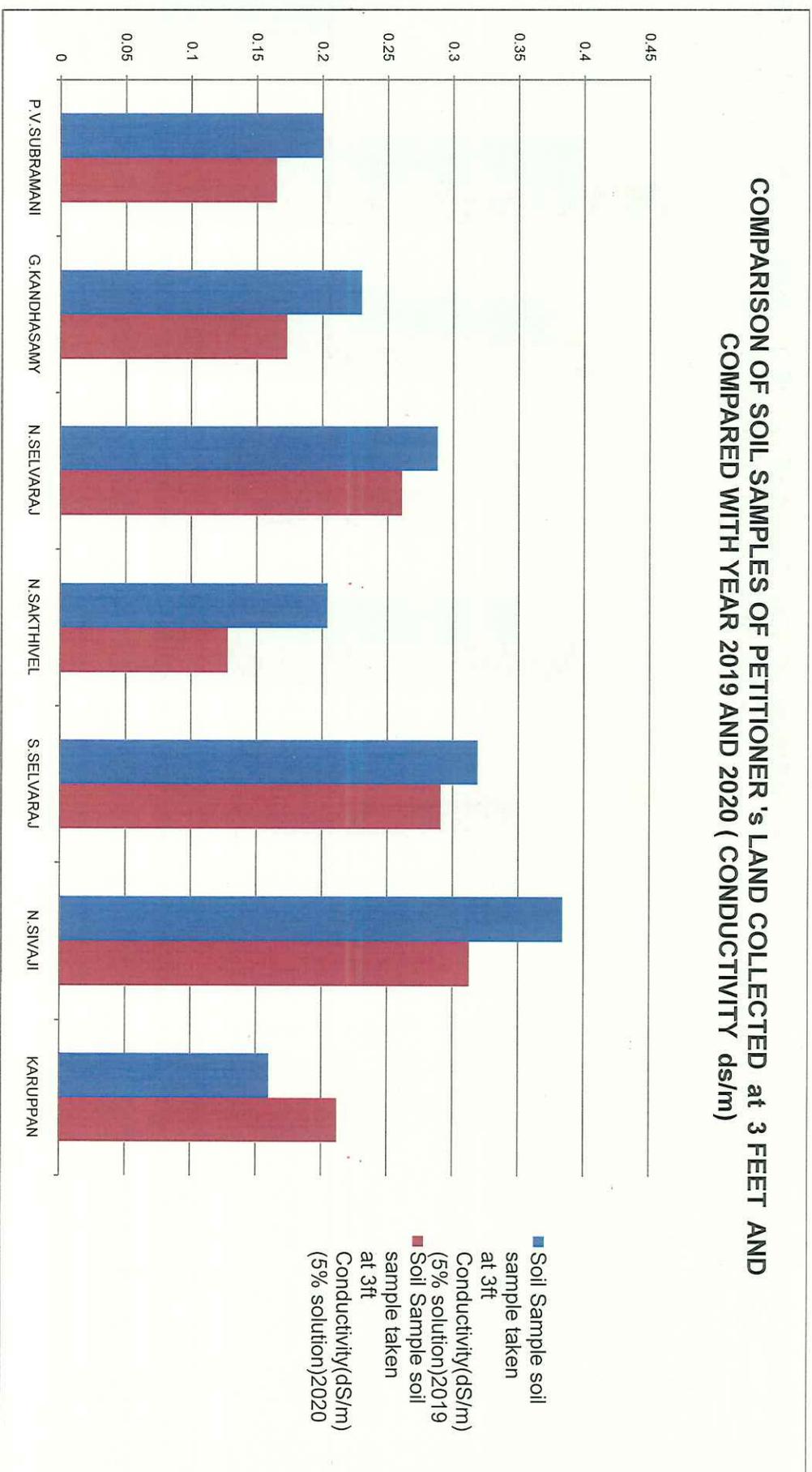


Annexure – X – B (2 Feet)



Annexure – X – C (3 Feet)

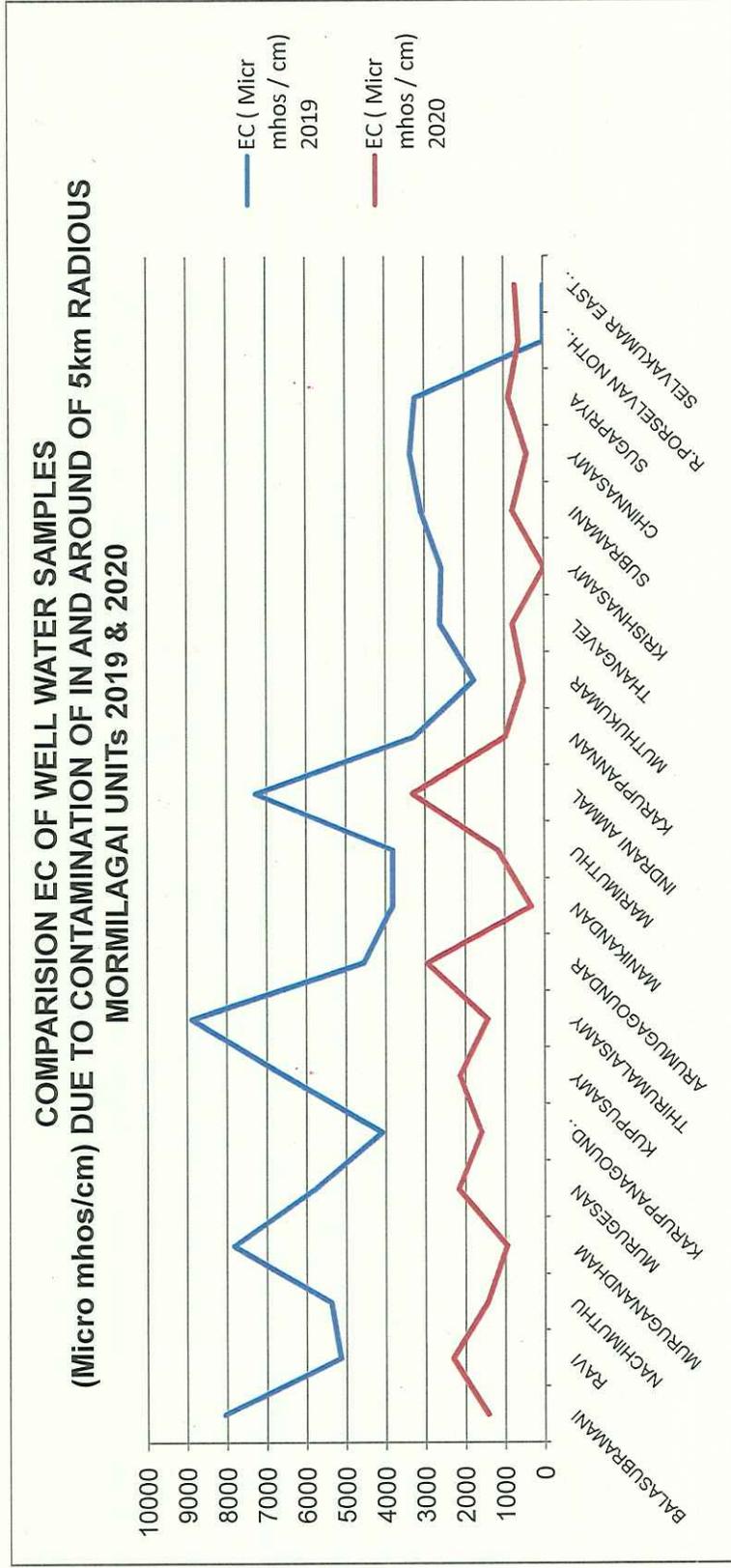
COMPARISON OF SOIL SAMPLES OF PETITIONER'S LAND COLLECTED AT 3 FEET AND COMPARED WITH YEAR 2019 AND 2020 (CONDUCTIVITY ds/m)



Annexure – XI

The EC and TDS of the ground water samples collected at 21 wells were compared for the years 2019 & 2020 shows the change in EC and TDS levels. It is shown as a comparative graph also in addition to the bar chart shown.

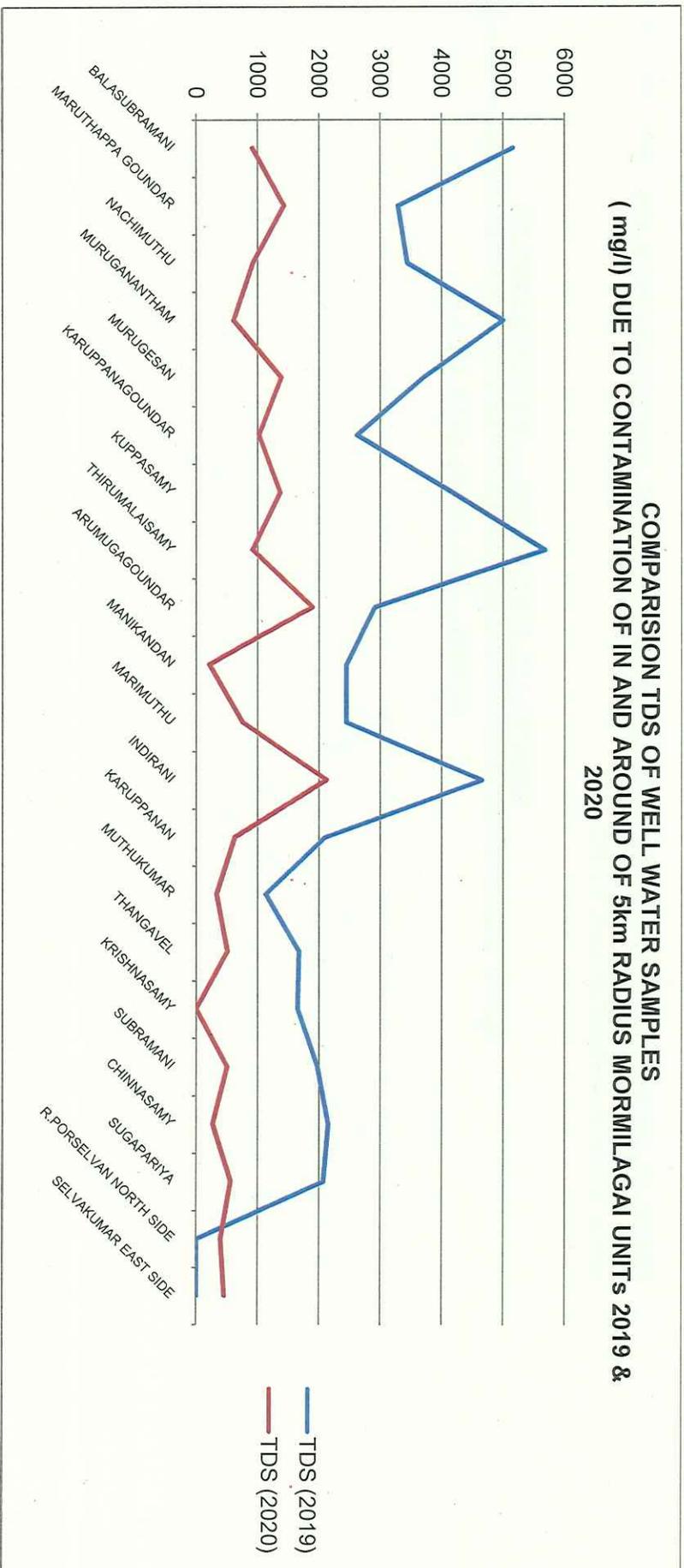
Figure Shows the graphical representation of the water pollution load in 2018-2019 and 2019-2020 in and around of the 5 km radius of the questionable area for EC.



Comparison of the 2019 & 2020 in the Graph EC Value has lowered.

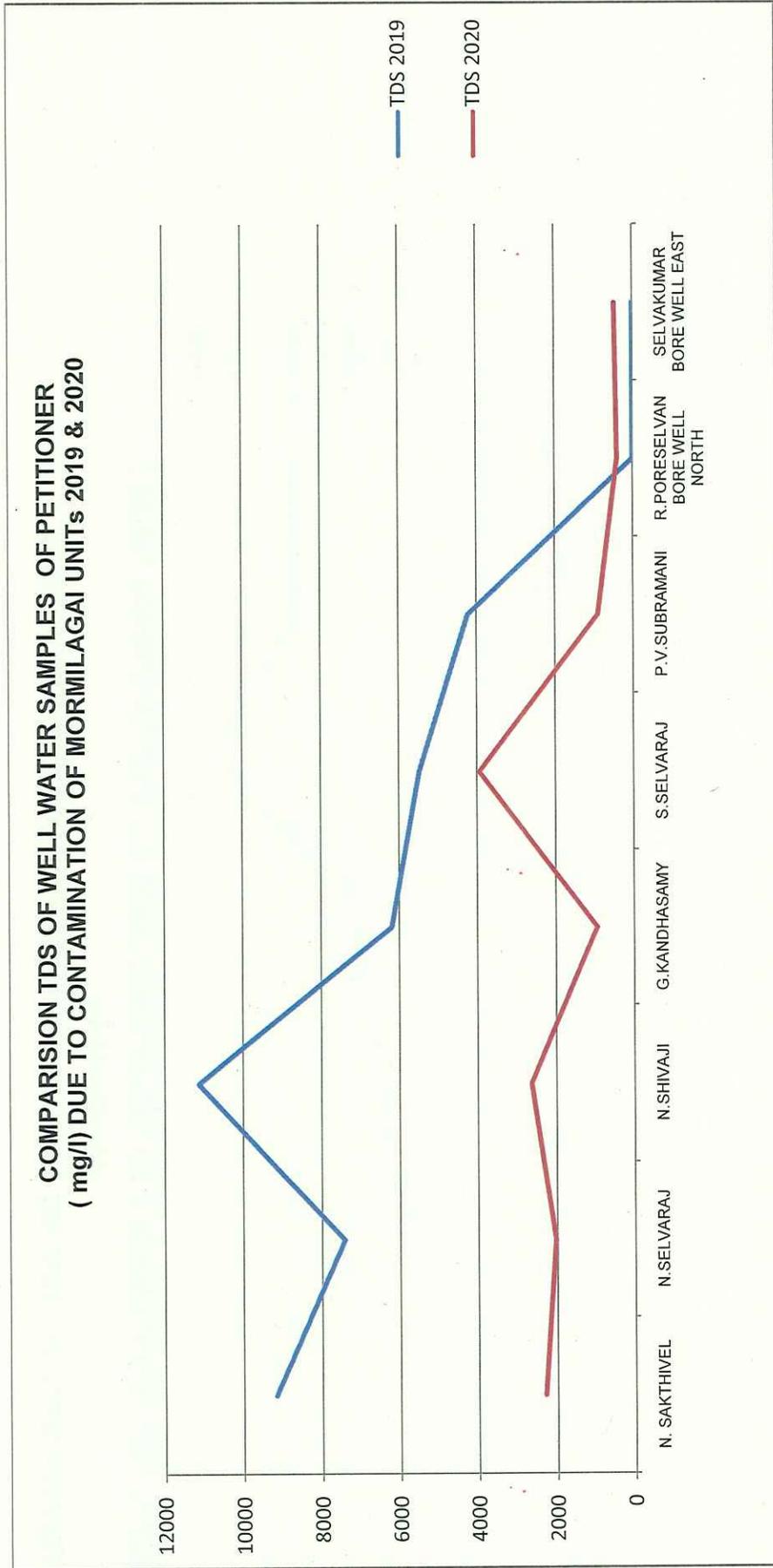
Annexure – XII

Figure Shows the graphical representation of the water pollution load in 2018-2019 and 2019-2020 in and around of the 5 km radius of the questionable area for **TDS**.



Comparison of the 2019 & 2020 in the Graph the TDS Value is lowered

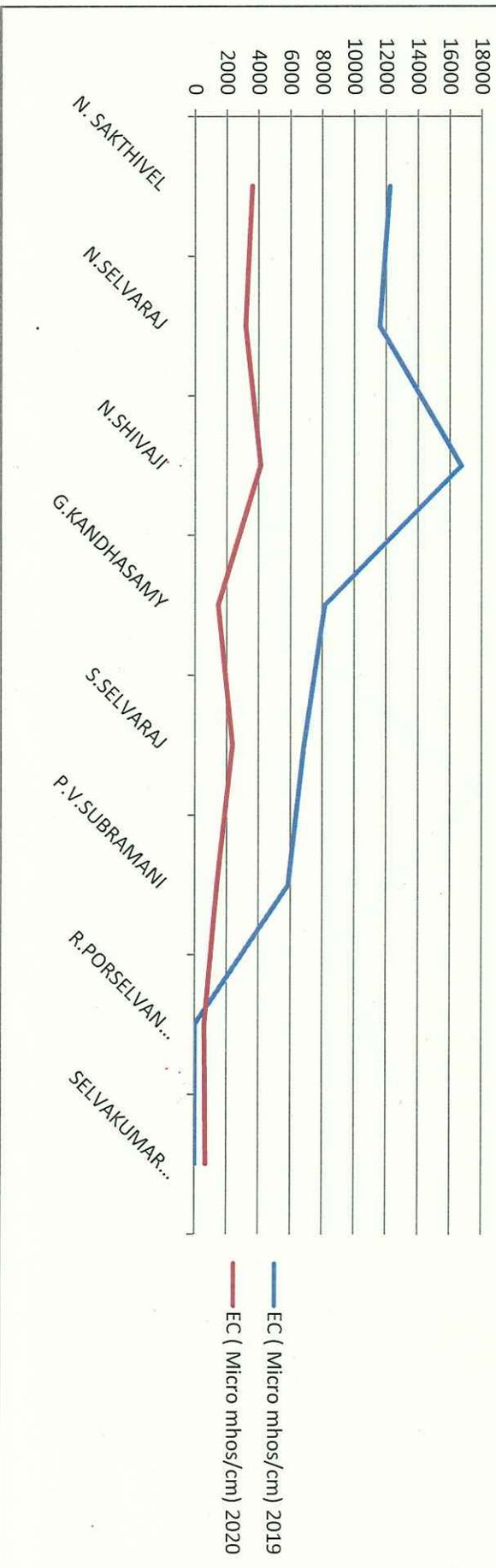
Annexure – XIII



Comparison of the 2019 & 2020 in the Pie Chart the TDS Value is lowered. So the Pollution load is diluted.

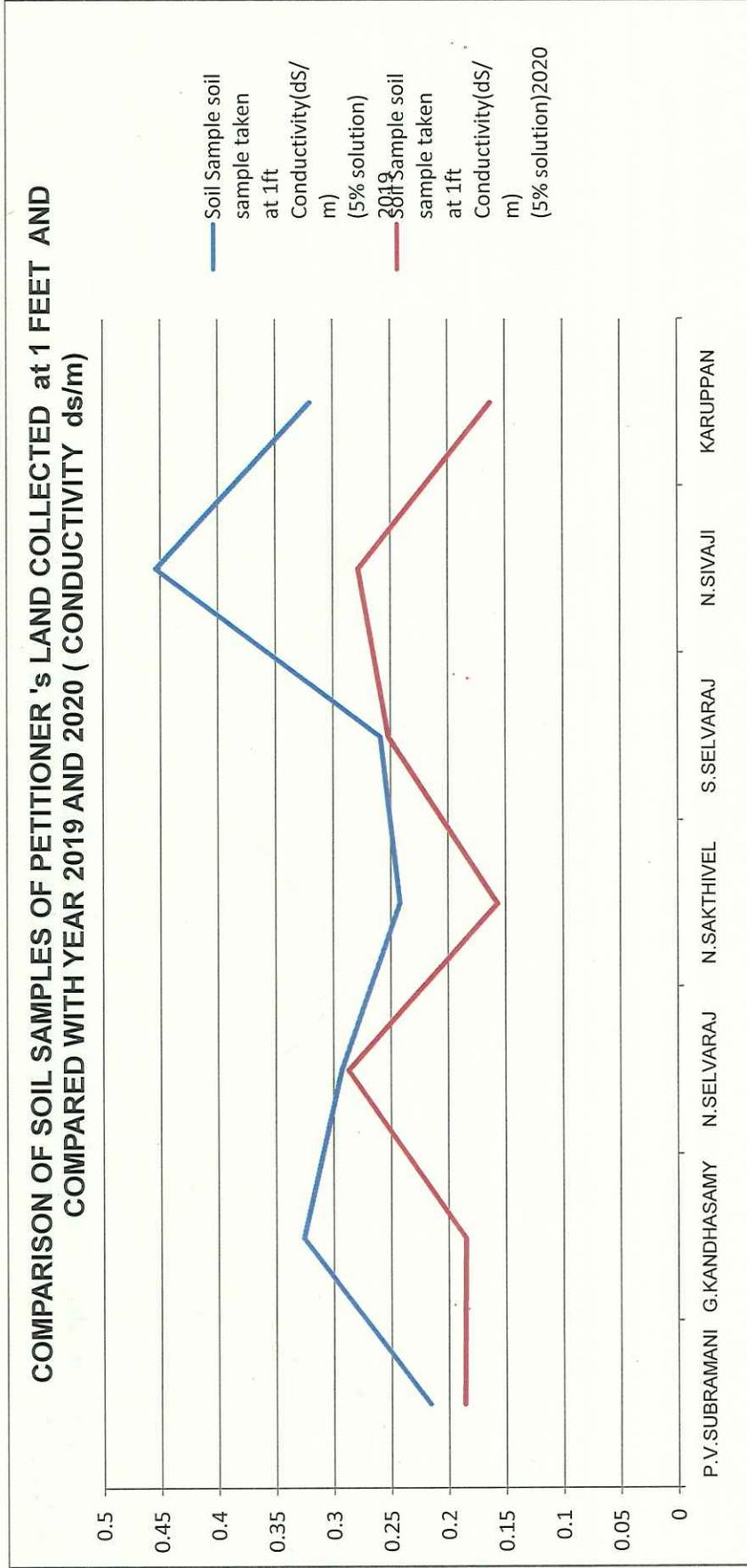
ANNEXURE - XIV

COMPARISION ELECTRICAL CONDUCTIVITY OF WELL WATER SAMPLES OF PETITIONER (Micro mhos/cm) DUE TO CONTAMINATION OF MORMILLAGAI UNITS 2019 & 2020



Comparison of the 2019 & 2020 in the Pie Chart the EC Value is lowered. So the Pollution load is diluted.

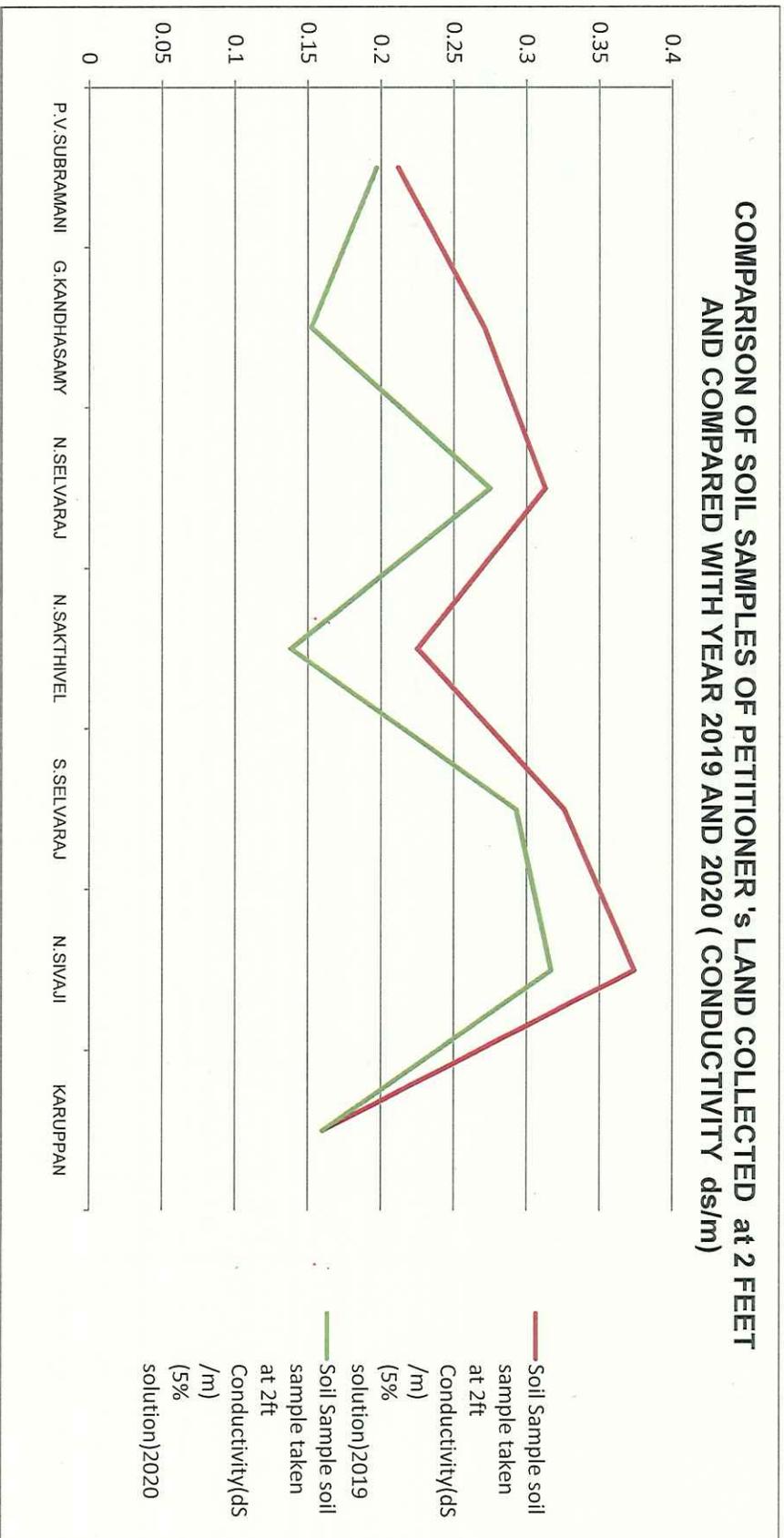
Annexure – XV - A



Observation:

The soil EC for the year 2020 marked in red is shows EC value of soil decreased compared with marked in blue for the year 2019 indicates the pollution load soil is reduce in 1 feet depth of soil.

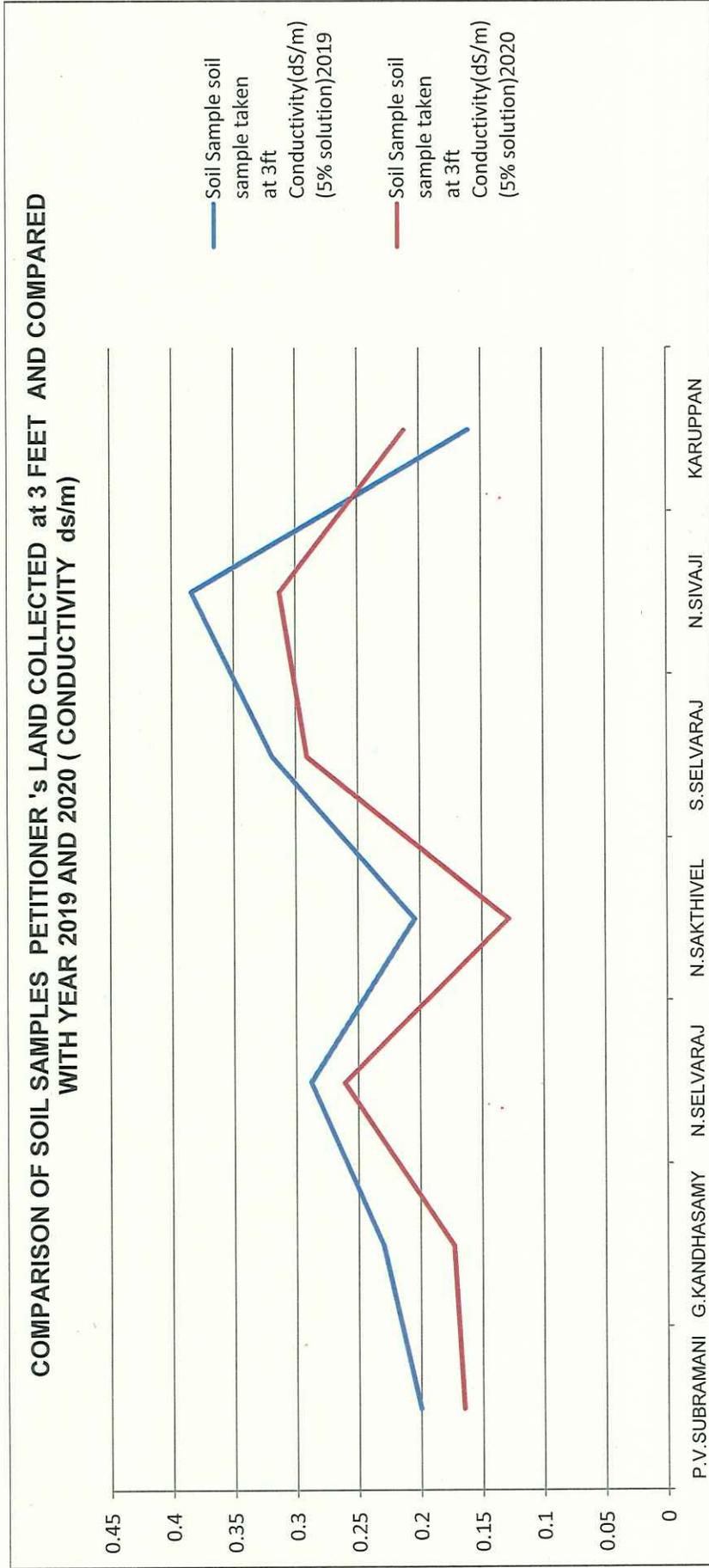
Annexure – XV - B



Observation:

The soil EC for the year 2020 marked in green is shows EC value of soil decreased compared with marked in red for the year 2019 indicates the pollution load soil is reduce in 2 feet depth of soil.

Annexure – XV - C



Observation:

The soil EC for the year 2020 marked in red is shows EC value of soil decreased compared with marked in blue for the year 2019 indicates the pollution load soil is reduce in 3 feet depth of soil.

