

**BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL, WESTERN
ZONE BENCH, PUNE**

AT PUNE

ORIGINAL APPLICATION NO. 69 OF 2022 (WZ)

SUNIL PHARATE

..

APPLICANT

VS

STATE OF MAHARASHTRA
AND OTHERS

..

RESPONDENTS

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PUNE

DATE: 24/08/2024



ADVOCATE FOR RESPONDENT NO.10

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL,

WESTERN ZONE BENCH, PUNE

AT PUNE

ORIGINAL APPLICATION NO. 69 OF 2022 (WZ)

SUNIL PHARATE

..

APPLICANT

VS

STATE OF MAHARASHTRA

AND OTHERS

..

RESPONDENTS

REPLY ON BEHALF OF RESPONDENT NO.10 (DISTILLERY)
TO THE AFFIDAVIT DATED 06.05.2024 FILED BY THE
RESPONDENT NO.4 (MPCB)

MAY IT PLEASE THE HON'BLE TRIBUNAL

THE RESPONDENT NO.10 MOST RESPECTFULLY SUBMITS

THAT :-

1. At the outset, it is submitted that, the Affidavit filed by the Respondent No.4 on 6th May 2024 is not admitted by the present Respondent and requires to be discarded. The present Respondent is filing the detailed response to the said Affidavit as well as Affidavit dated 28th November 2023. The Respondent No.10 has filed a reply dated 28th August 2023. The contents therein are adopted and affirmed as part and parcel of the present reply.

2. The Respondent No.10 submits that the Respondent No.10 has operated its Unit in accordance to the permissions granted by the Statutory Authorities. The calculation of the Environmental Damage Compensation amounting to Rs.56,70,000/- is erroneous, and without any substantial evidence against the Respondent No.10 herein.

3. In the Affidavit dated 28th November 2023, the Respondent No.4 has calculated the Environmental Damage Compensation of Rs.56,70,000/- to be levied upon the Respondent No.10. It is submitted that the Respondent has failed to substantiate that what pollution has been caused by the Respondent No.10 and how the Respondent No.10 is responsible for the incident of fish kill at the site. The Respondent No.4 to 6 has failed to substantiate that there has been destruction of the environment on the part of Respondent No.10 and that no justification of whatsoever nature has been given in the entire Affidavit for levying the said Environmental Damage Compensation.

4. The Joint Committee had filed the detailed Report before this Hon'ble Tribunal on 13.11.2022, wherein the Committee had made certain observations in respect of Respondent No.10. The Respondent No.10 has carried out the adequacy and the report thereto is annexed and marked hereto as **ANNEXURE 'R-1'**.
5. The Respondent No.10 submits that the Respondent No.10 uses the spent wash in accordance to the procedure described herein. First the fermented wash is doused in the analyzer column in distillation. Spent wash, which has been diluted with alcohol, comes out of the bottom of the analyzer. Its temperature at that time is 80°C. When the PHE temperature drops below 45°C, the spent wash is first pumped to the lagoon for 5 days to cool. After its temperature reaches 38°C from the lagoon, it is pumped to the biogas plant. (Spent wash COD 1,40,000 PPM, BOD 70,000 PPM). The Biogas Plant Capacity 14000 NM³ Biogas produced is fed to boiler for fuel saving. Biogas is a biocidal reaction which reduces COD and BOD (1,40,000 COD to 45,000 PPM and BOD to 70,000 PPM to 23,000 PPM) Spent wash PH is 4.5. The said pH increases to 7.7 in the biogas process. Spent wash gas is released from biomass biogas after gasification. After this the biogas is fed from the outlet to the biomass evaporation plant. The spent wash is condensed (using

steam) in an evaporation plant. The efficiency of evaporation plant is 65%. E.g. After thickening 100 dl of spent wash, 35 dl of solid spent wash leaves the evaporation plant. The thickened spent wash composted manure is sent to the composting plant for composting. Press mud from sugar factory is used in making compost. A sugar factory has 3.5% of press mud after sugar denaturation ie. 1,00,000 Mt. 3500 MT after crushing. The press mud produced is used again for composting. In this fertilizer process, the ratio of press mud and spent wash (1:1.5) is a standard ratio of one litre of press mud to one litre of spent wash.

C 2021-22 Alcohol production and manufacture of sponge wash

1. Alcohol production = 70,37,000 Daltas
2. Spentwash amount = 6,33,30,000 (spentwash content per liter of alcohol is 9%)
3. Year 2021-22 Factory Crushed Sugar = 6,14,322 MT. done
4. Factory press mud production - 21,500 mt.
5. Quantity of spent wash condensed from evaporation = 2,21,65,500 dl
6. Spray amount on thick spentwash pressmud = 1.03 %

The standard spray rate on Spentwash Pressmud is 100 ml Spentwash per Kg of Pressmud. For the year 2021-22, the same ratio is much lower than the standard norm. In the year 2021-22, the compost was prepared by spraying the spent wash on the press mud. The said composting factory was made fully functional before the rainfed composting site by charging the member farmers at a modest rate (13,918 MT of compost was sanctioned in the year 2021-22).

6. Furthermore, it is submitted that, from the above data it is crystal clear that the present Respondent has not exceeded the discharge norms. However, the Respondent No.10 is scrupulously following the conditions. Copies of the JVS results are annexed hereto and marked as **ANNEXURE – R-2 colly**.
7. The Respondent No.4 vide its letter dated 12.12.2023 had directed the Respondent No.10 to deposit Environmental Damage Compensation (EDC) amounting to Rs.56,70,000/-. However, the said letter is completely silent on the aspect, as to how the said amount has been arrived at by the Respondent No.4. The Respondent No.4 has also failed to substantiate or demonstrate any destruction to the environment attributed to the activities of the Respondent No.10 in the said letter. copy of said letter dated 12.12.2023 is annexed with this Affidavit and marked as **ANNEXURE ‘R-3’**.
8. The Respondent No.10 submits that upon receipt of the letter of Respondent No.4 dated 22.12.2023, the Respondent No.10 has responded vide its detailed Reply dated 22.12.2023. The letter of the Respondent No.10 clearly states that the Respondent No.4 has not substantiated its recovery and that it is knee jerk reaction or a unilateral act on the part of the Respondent No.4 to levy the EDC.

Copy of the letter dated 22.12.2023 is annexed hereto and marked as **ANNEXURE – R-4**.

9. Furthermore, the order dated 29.8.2023 directed the Respondent No.4 to identify the industries, who are causing pollution in River Krishna and after identification of the Industries to impose the EDC. The Affidavit under Reply dated 6.5.2024 for the first time, the Respondent No.4 has stated that the Respondent No.10 is liable for payment of EDC.
10. As regards, the functioning of the ETP of the Respondent No.10, it is submitted that the ETP has been following the norms as prescribed by the Respondent No.4 in the 'Consent to Operate' and the samples, which are being collected are sent to the Laboratory which is NABL accredited and the same are to be found within the consented parameters, as mentioned into the 'Consent to Operate'. Copies of the sampling report as received from the NABL accredited lab are annexed hereto and marked as **ANNEXURE – R-5 colly**. The Respondent No.10 has also carried out the adequacy report from the Walchand College of Engineering and the same has been submitted to the Respondent No.4 for their approval and opinion.

11.As regards, the upgradation, the Respondent No.10 has already stated the same is under process and will be concluded soon. In view of the above, EDC, which has been levied upon the Respondent No.10 is an act of unilateral power of the Respondent No.4 and the same be not taken into consideration and the present Respondent be discharged from the proceedings.

PUNE

DATE: 24 / 08 /2024



ADVOCATE FOR RESPONDENT NO.10

BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL

WESTERN ZONE BENCH, PUNE

AT PUNE

Original Application No.69/2022 (WZ)

SUNIL PHARATE

APPLICANT

V/s

STATE OF MAHARASHTRA

AND OTHERS

RESPONDENTS

AFFIDAVIT IN SUPPORT OF REPLY

MAY IT PLEASE THE HON'BLE TRIBUNAL

I, Shri. Sameer Bhagawat Salgar, adult, Managing Director of the Respondent No.10, having office at Taluka Walwa, District Sangli, do hereby state on solemn affirmation as under: -

1. I say that I am the Managing Director of the Respondent No.10 and I am authorized to file the present Affidavit. I say that I am aware of the facts and circumstances of the present case and hence am able to depose the same on oath.
2. I say that the Respondent No.10 herein has filed the present reply to the Affidavit dated 6th May 2024 filed by the Respondent Nos.4 & 5. I say that the contents of the said Reply and the present affidavit are true and correct to the best of my knowledge, information, belief and the legal advice which I believe to be correct.



WHATEVER stated herein above is true and correct to the best of my knowledge and belief and for the same I have signed hereunder at Islampur on 24 day of August 2024.

[Handwritten Signature]
Deponent

MANAGING DIRECTOR
Padmbhushan Krantiveer Dr. Nagnath Anna Navat
Hutatma Kisan Ahir Sahakari Sakhar Karkhar
Nagnath Annanagar, Walwe, Tal. Walwe, Dist. Sa...

Shri Sameer Bhagwat Salgar
do swear, name of God *Rh. Walwa*
that this is my name & signature
solemnly affirm that the contents
of this affidavit are true

Signature of Deponent: *[Signature]*
Identified by: *[Signature]*
Signature of Notary: *[Signature]*
Page Nos: *2*

Noted and Listed at
Sr. No. *58* Of Notaratial
Registered Dated *27/08/2024*
Document Pages *2*

[Signature]
Arvind B. Patil
Advocate & Notary
'Laltara', Islampur, Dist. Sangli.
Mob : 9822051177, 8668487477





Walchand College of Engineering

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WCE/Civil/Public health/Consultancy | 2779

Date: 16.01.2023

To,
 Managing Director,
 Padmabhushan Krantiveer Dr. Nagnathanna Nayakawadi
 Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd.,
 Nagnathannagar, Walwe
 Taluka: Walwa
 District: Sangli.

Subject: Adequacy Assessment Report of Effluent Treatment Plant for Sugar Factory

Reference: PKDNNHKASSK/MFG/2022-23/3277 dated: 05.01.2023

Dear Sir,

With reference to your letter mentioned above, we have prepared report on adequacy assessment of effluent treatment plant for sugar factory (PKDNNHKASSKL). The report of the same is attached herewith for your kind reference and use.




 I/C. Director



Walchand College of Engineering, Sangli

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Department of Civil Engineering

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Adequacy Assessment Report of Effluent Treatment Plant for

Padmabhushan Krantiveer Dr. Nagnathanna Nayakawadi
Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd., Nagnathannagar, Walwa
Taluka Walwa District Sangli (Maharashtra)

1.0 Introduction:

The Managing Director, Padmabhushan Krantiveer Dr. Nagnathanna Nayakawadi, Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd., Nagnathannagar, Walwa, requested (PKDNNHKASSK/MFG./2022-2-23/3321 dated 9th Jan. 2023) the Department of Civil Engineering to prepare adequacy assessment of Effluent Treatment Plant (ETP) for their sugar factory. The assignment was accepted by the Department of Civil Engineering with Dr. G. R. Munavalli as the coordinator and expert member.

2.0 Methodology:

The following methodology was adopted for the adequacy assessment;

2.1 Data collection

- i. Design and drawings of ETP
- ii. Details of pumps, mixers and other mechanical devices used in ETP.
- iii. Recent Environmental consent report
- iv. Recent analysis/test reports of effluent (raw and treated)
- v. Communication by MPCB regarding submission of adequacy assessment report.

The above data was collected from concerned officials prior to the site visit.

2.2 Desk study

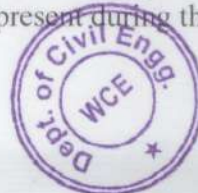
The data submitted was studied and preliminary analysis was done. The study included assessing appropriateness of unit processes/operations in effluent treatment and their sequence, and preliminary computation on size/volume/area required for current 5000 TCD capacity of sugar factory. The sampling locations were also identified.

2.3 Site visit

The site visit was planned on 10th Jan., 2023. Accordingly, ETP site was visited by Dr. G. R. Munavalli and Shri. G. M. Bhosale (Expert members from WCE), Shri. Vishal Bhokare and Shri. Pravin Gaikwad (Support staff from WCE). During the site inspection, Shri. Manohar Khumtale, the ETP Operator, and Shri. Kishore Suryavanshi, the Environmental Engineer, represented the sugar factory. Each of the ETP units were physically visited, inspected and studied for the following;

- i. Process flow/Sequence of unit operations and processes
- ii. Size/Dimensions/Volume/Area of all the units
- iii. Working of ETP units
- iv. Physical condition of ETP units
- v. Working of pumping systems and other mixing devices

Further, the effluent samples were collected at various locations to assess the performance of ETP units. The spot analysis for pH and dissolved oxygen was carried out. Settability of mixed liquor from aeration tank was assessed. The current issues/problems associated with ETP were also noted through interaction with officials present during the site visit.





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2.4 Data analysis and adequacy check

The information provided by the sugar factory and the information gathered during the site visit were checked and examined. To evaluate the effectiveness of the ETP, effluent samples taken during the site visit were analysed and tested. Previous test results provided by the sugar mill were also taken into consideration. The ETP's physical dimensions were utilised to determine whether they were suitable for handling the current flow (500 m³/d). To comment on their current state, the observations on the ETP's civil infrastructure and pumping, mixing, and aeration devices were used.

2.5 Adequacy assessment of ETP units

The adequacy assessment of ETP is carried out for dimensions/capacity/power, treatment process flow, physical condition of ETP units, operation of ETP and effluent quality to treat 500 m³/d.

2.6 Upgradation/Modification to improve the performance

2.7 Modifications and Refurbishments

2.8 Suggested operational changes

2.9 Recommended Treatment system for ETP

3. Details of existing ETP

3.1 Treatment process flow in ETP

Fig. 1 shows the treatment process flow in the existing ETP. The existing ETP has an oil and grease tank, a flow measuring channel with "V" notch, an equalization tank, anaerobic filter, primary settling tank, aeration tank, secondary settling tank, sludge sump and sludge drying beds. The pumping system is provided to feed effluent from equalization tank to anaerobic filter, and sludge from sludge sump to sludge drying beds & aeration tank. As per the original design the equalization tank had two compartments separated by a partition wall and siphon pump conveying effluent from first compartment to the second compartment. Also equalization was installed with turbine type mixer. There are two surface aerators provided in aeration tank. There is a stirrer attached with scraper blade in primary and secondary settling tanks.

The processes in ETP include removing oil and grease from raw effluent, equalizing flow feeding an anaerobic filter, filtering effluent and feeding it to primary settling tank, feeding primary effluent after mixing it with recirculated sludge to the aeration tank, feeding mixed liquor from aeration tank to the secondary settling tank and using secondary effluent for land irrigation. The primary and secondary sludge are collected in sludge sump. The excess sludge is dewatered in sludge drying beds while a portion of the mixed sludge is recirculated. The dried sludge is used as manure. There is an online flow meter installed on pipe feeding anaerobic filter and flow is digitally displayed. A monthly washing tank is also a part of this ETP (not shown in Fig.1).



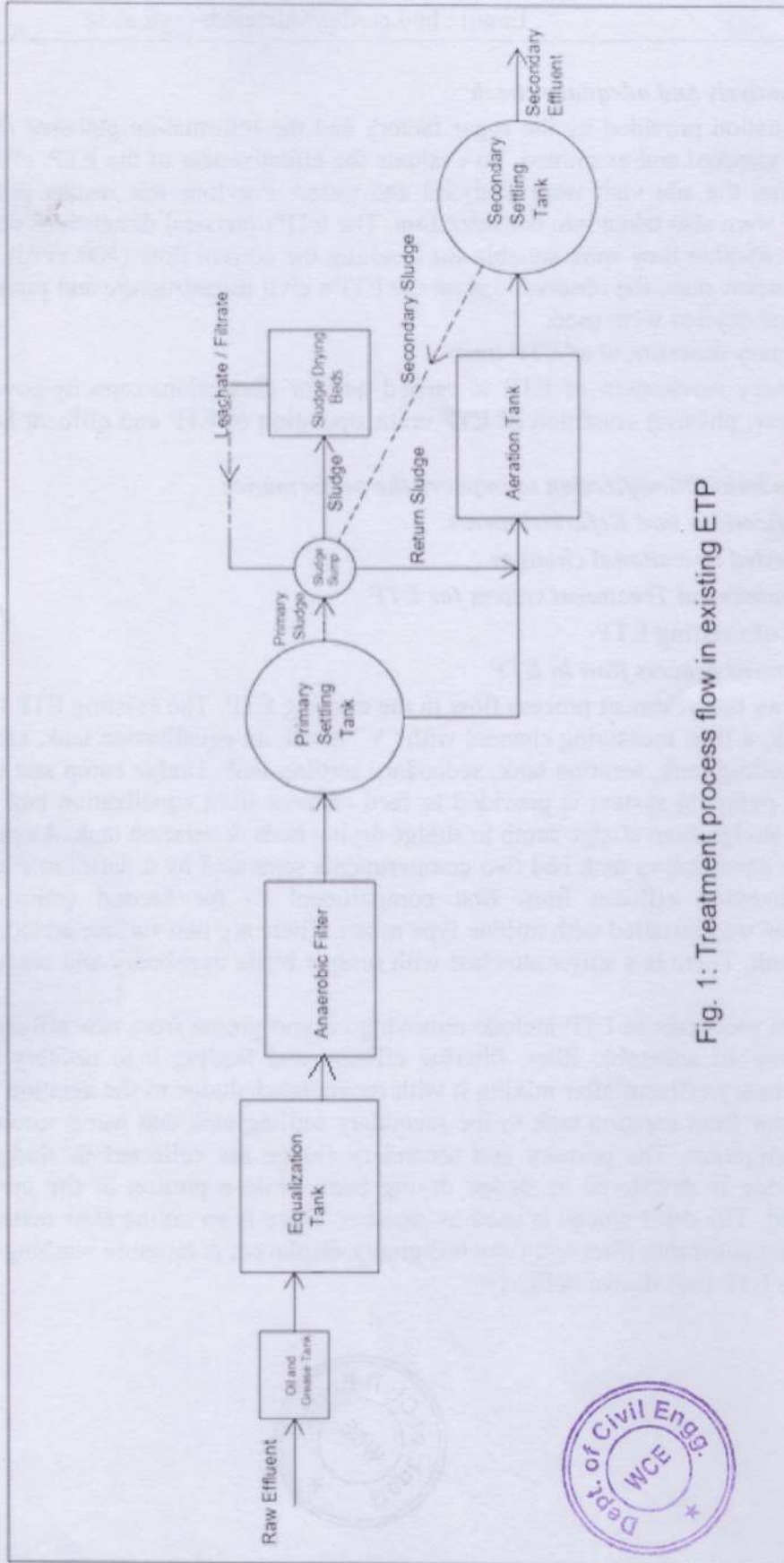


Fig. 1: Treatment process flow in existing ETP





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3.2 Size/Capacity of ETP

The size and capacity of ETP units are given in Table 1.

Table 1: Size and Capacity of ETP units

S. No.	ETP Unit	Size	Surface area (m ²)	Volume (m ³)
1	Oil and Grease tank	1.2 m x 1.5 m x 2 m	1.92	3.84
2	Equalization tank	8.2 m x 8.2 m x 3.5 m	67.24	235.34
3	Anaerobic filter	10 m x 10 m x 4 m	100	400
4	Primary settling tank	7.5 m dia. 2.5 m SWD	44.16	110.39
5	Aeration tank (Trapezoidal)	28 m x 18 m (Top) x 3 m 16 m x 6 m (Bottom) x 3 m	300	900
6	Secondary settling tank	7.0 m dia. 2.5 m SWD	38.47	96.16
7	Sludge drying beds	10 m x 10 m	100	-
8	Sludge sump	3.5 m x 2.75 m x 3 m	28.88	1.39
9	Monthly washing tank	-	-	810
Pumping/Aerator Units				
S. No	Pumping/Aerator Units	Power	-	-
1	Feed pumps from equalization tank to Anaerobic filter	5 hp - 2 No.	-	-
2	Recirculation and Sludge feed pump at sludge sump	5 hp - 2 No.	-	-
3	Surface aerators in aeration tank	40 hp and 30 hp	-	-
4	Belt-conveyor motor in Oil and Grease tank	3 hp	-	-

4 Adequacy assessment of ETP units

Adequacy assessment is carried out in terms of different considerations and is discussed below:

4.1 Dimensions/Capacity/Power

The computed capacity of existing ETP units to treat 500 m³/d flow and the pertinent design parameters are given in Table 2.





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Table 2: Computed capacities of ETP units

S.No.	ETP Unit	Detention time	Volume (m ³)	Surface overflow rate (m ³ /m ² .d)	Weir loading rate (m ³ /m.d)
1	Oil and Grease tank	10.37 min.	3.65	-	-
2	Equalization tank	11.30 h	235	-	-
3	Primary Settling tank	5.30 h	110	11.32	21.23
4	Secondary Settling tank	4.62 h	96	13	22.75
5	Sludge Sump	1.40 h	30	-	-
6	Anaerobic filter	Detention Time	Volume (m ³)	COD max (mg/L)	COD loading rate (kgCOD/m ³ .d)
		21.6 h	400	2500	3.13
7	Aeration tank	Detention Time	Volume (m ³)	BOD max (mg/L)	F/M (kgBOD/kgMLSS.d) [for MLSS of 4000-5000 mg/L]
		43.2 h	900	1200	0.13-0.17
8	Sludge drying bed	Area required to process 300 mgTSS/L in 500 m ³ /d flow with 60% removal in PST; 5000 mgMLSS/L, SRT of 30 d, Return sludge conc. 12000 mg/L, 0.5 m depth of sludge on surface and 10 d cycle time is 300 m ²			
9	Surface Aerator	31 hp aerator/s required for BOD removal from 1200 to 100 mg/L in 500 m ³ /d flow.			

The summary of computed capacities to treat 500 m³/d flow in terms of adequacy/inadequacy is given below:

- The size of Oil and Grease tank is inadequate as detention time is low (< 30 min.).
- The anaerobic filter is subjected to higher COD loading rate (> 1.2 kgCOD/m³.d) and hence inadequate in terms of capacity and size.
- The area of sludge drying beds is inadequate to process sludge specified in the Table 2.
- The power of surface aerators is adequate. However, the diffused aeration would be more efficient and effective.

4.2 Treatment process flow

The process flow provided in the existing ETP is described in section 3.1. There is no bar screen provided in the ETP. The pretreatment with anaerobic filter followed by primary settling tank may not give the desired performance for the removal of soluble BOD. The feed from equalization tank to anaerobic filter contains suspended solids and will be sieved/filtered in anaerobic filter. The purpose of anaerobic filter is to remove soluble BOD by biofilm formation. The accumulated suspended solids will affect this activity and thereby result in poor performance in BOD removal. Further, the primary settling tank will not receive adequate suspended solids and hence it acts as flow-through tank with less settled sludge. Thus, the provision of anaerobic filter and primary settling tank in this sequence/configuration may not be useful for the removal of soluble BOD.





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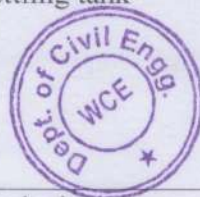
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4.3 Physical condition of ETP units

The ETP units were physically observed during the site visit. The physical observations and information collected through interaction on each of the ETP units are summarized in Table 3.

Table 3: Summary of observations on ETP units

S.No.	Unit	Observations
1	Oil and Grease tank	<ul style="list-style-type: none"> i. The oil and grease are removed from the tank both manually and mechanically through belt-conveyor system. ii. The oil and grease are also removed in chambers prior to the oil and grease tank. iii. The mechanical belt-conveyor system is old (installed in 2005) and efficiency seems to be lesser.
2	Equalization tank	<ul style="list-style-type: none"> i. The partition wall constructed as per the design has fallen converting the equalization tank into single compartment tank. ii. Due to the collapse of partition wall, the siphon pump that conveys effluent from first compartment to second compartment is also not installed. iii. There is no provision of mixing arrangement and hence it acts as a settling tank. Mixing conditions are not maintained in the tank. iv. The inner plastering is deteriorated. v. The condition of the tank at the bottom could not be ascertained as the tank was full. vi. It should be refurbished to strengthen it thereby avoiding a possible damage to the structure in future.
3	Anaerobic filter	<ul style="list-style-type: none"> i. There were frequent leakages reported and the tank requires civil refurbishment works. ii. The clogging of stone media was frequently reported due to pumping of raw effluent with suspended solids into the anaerobic filter.
4	Primary settling tank	<ul style="list-style-type: none"> i. The feeding system to the inner central well is not proper. There is a short-circuiting of flow from surface of inner feed well to the outlet weir. ii. The flow distribution is non-uniform in the outlet weir. iii. The outlet weir does not have smooth overflow section. iv. The structure requires civil refurbishment works.
5	Aeration tank (Trapezoidal)	<ul style="list-style-type: none"> i. There were frequent leakages reported and the tank requires civil refurbishment works.
6	Secondary settling tank	<ul style="list-style-type: none"> i. The flow distribution is non-uniform in the outlet weir. ii. The outlet weir does not have smooth overflow section. iii. The structure requires civil refurbishment works. iv. The stirrer is under repair.
7	Sludge drying beds	-
8	Sludge sump	-





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9	Monthly washing tank	i. There were frequent leakages reported and the tank requires civil refurbishment works.
10	Feed pumps from equalization tank to Anaerobic filter	i. Very old pumps purchased in 1984 are used. It will result in more power consumption with reduced output. ii. The pump discharge varied (online flow measurement 20 m ³ /h to 14 m ³ /h) during the visit indicating inconsistency in the performance. iii. Frequent clogging of pumps is reported.
11	Recirculation and Sludge feed pump at sludge sump	i. Very old pumps purchased in 1984 are used. It will result in more power consumption with reduced output.
12	Surface aerator in aeration tank	i. The surface aerators of capacity 40 hp and 30 hp are operational since 2005 and 1984 respectively.

4.4 Operation of ETP

The performance of any ETP is significantly governed by its operational conditions. The operational problems associated with ETP are summarized in Table 4.

Table 4: Summary of operational problems in ETP

S.N.	Unit	Observations
1	Equalization tank	i. The lime/neutralizing chemical is not added in the equalization tank. It is added somewhere in inlet line prior to oil and grease tank/from washing tank. Few times the addition is from washing tank. ii. The pumps in equalization tank are operated intermittently with an average operation time of 10 to 12 h.
2	Aeration tank	i. The return sludge is added intermittently. Thus the tank is fed with only primary effluent during the operation. ii. Urea (20 kg/d) and microbial culture (50 L/d) are added once in a day. iii. Due to non-continuous pumping from the equalization tank, the system is operated in a combination of batch and continuous modes.
3	Sludge drying beds	i. The depth of sludge stored above bed is 0.75 m.
4	ETP (Overall)	i. Anaerobic filter, Primary settling tank, Aeration tank, and Secondary settling tank are operated in intermittent (partly continuous and partly batch) mode. ii. ETP is operated without understanding the system requirements. iii. ETP receives high temperature effluent frequently.





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4.5 Effluent quality in ETP

The effluent samples were collected at various locations in the treatment plant to assess the adequacy treatment units in terms of performance due to operation of the system. The following are the comments on the performance based on spot and laboratory analysis of the effluent at various locations.

- i. The pH of water was in the range 4.5 to 6.0. It indicates the improper functioning of equalization tank and poor neutralization due to improper addition of lime/neutralizing chemical.
- ii. The return sludge has too low suspended solids (< 200 mg/L). Thus, the microbial solids required to be fed to maintain proper Food/Microbes ratio are too low in aeration tank.
- iii. There are too low mixed liquor suspended solids (MLSS) observed in aeration tank. It was confirmed through sludge volume index test in which no settled sludge was noticed. This is due to irregular addition of return sludge.
- iv. The intermittent addition of return sludge with too low concentration of suspended solids to aeration tank has affected biological treatment. It is indicated in observed dissolved oxygen of 4.50 mg/L in mixed liquor. The dissolved oxygen is present in mixed liquor is due to high capacity (40 hp and 30 hp) surface aerators in the aeration tank and lesser demand exerted for dissolved oxygen due to poor biological activity.
- v. The COD and BOD of effluent varied in the range 2400 to 3000 mg/L and 1000 to 1200 mg/L at various locations in the treatment plant respectively. It is an indicative of poor performance due to improper operational conditions.

5.0 Upgradation/Modifications to improve the performance

5.1 Modifications and Refurbishments

The modifications and refurbishments are required to improve the performance of ETP to treat 500 m³/d of flow to satisfy the effluent standards for land application/irrigation. The suggested modifications in ETP infrastructure are as given below:

- i. A change in process flow with feed from equalization tank to primary settling tank and subsequently feeding the anaerobic filter. As a result, there will be more soluble BOD removed from the effluent that is fed to the anaerobic filter.
- ii. Anaerobic filter of size 10 m x 16 m x 4 m should be added to the system to ensure COD loading rate of 1.2 kgCOD/m³.d.
- iii. Both existing (if used) and new anaerobic filters should be covered and ventilated appropriately.
- iv. Refurbishment works are required to all civil infrastructure of ETP to strengthen the units and to stop leakages.
- v. Replacement of old, power consuming and less efficient pumping/mixing/aeration units is essential. It is desired to replace existing surface aerators by diffused aeration system of appropriate capacity.
- vi. Installation of mixing device/unit in equalization tank is required.
- vii. A larger capacity oil and grease tank with proper efficient skimmer unit should be provided.
- viii. The area of sludge drying beds is to be increased to 300 m².
- ix. The secondary treatment should be followed by tertiary treatment consisting of multigrade filter and Activated carbon filter.
- x. If refurbishment of existing ETP units does not strengthen the existing ETP units adequately, then new structure should be constructed.
- xi. The summary of ETP units existing and upgraded capacity is given in Table 5.





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Table 5: Capacity of Existing and Upgraded ETP units

S.No.	ETP Unit	Capacity	
		Existing	Upgraded
1	Fine and Coarse bar screen	-	0.5 m deep with area of 2 m ²
2	Oil and Grease tank	3.6 m ³	15.65 m ³
3	Equalization tank	235 m ³	235 m ³
4	Anaerobic filter	400 m ³	1040 m ³
5	Primary settling tank	110 m ³	110 m ³
6	Aeration tank	900 m ³	900 m ³
7	Secondary settling tank	96 m ³	96 m ³
8	Sludge drying beds	100 m ²	300 m ²
9	Sludge sump	30 m ³	30 m ³
10	Multigrade filter	-	Surface area 1.5 to 2 m ²
11	Activated carbon filter	-	Surface area 1.5 to 2 m ²

6.0 Suggested Operational changes

The operation of ETP and its performance depends on maintenance of appropriate operational parameters. In this context, the following operational conditions need to be maintained in ETP.

- Proper mixing in equalization tank and addition of appropriate dose lime/chemical for neutralization.
- ETP should be operated in continuous mode.
- There should be a continuous recycling of return sludge in aeration tank and well mixed with influent to aeration tank from the anaerobic filter.
- Operational parameters viz. detention time, MLSS, F/M, and Recycle ratio are to be maintained as per the design requirements in aeration tank.
- There should be a skilled and trained operator for ETP.
- ETP should not be fed with any effluent (like condensate) other than process wastewater from sugar factory.

7.0 Recommendations:

7.1 Recommended and upgraded treatment system

Fig. 1 shows the recommended and upgraded treatment system for ETP. The treated effluent should be chlorinated/ozonated before disposal. A monthly washing tank is required, but not shown in Fig. 2.

7.2 Upgradations/Modifications to existing ETP

The present ETP must either be properly renovated or new units must be built wherever necessary, implementing the recommended treatment system. If an existing ETP unit/s are to be used in the upgraded treatment system, then

- Appropriate measures should be taken to ensure structural stability, durability and water tightness of existing ETP units.
- The corrective measures should be taken to address the observations/suggestions related to physical conditions mentioned in Table 3 and section 5.1.

The surface aerators are to be replaced by diffused aeration system to achieve significantly higher oxygen transfer efficiency.





Walchand College of Engineering, Sangli

(Government-Aided Autonomous Institute)

Department of Civil Engineering

Email : hod.civil@walchandsangli.ac.in

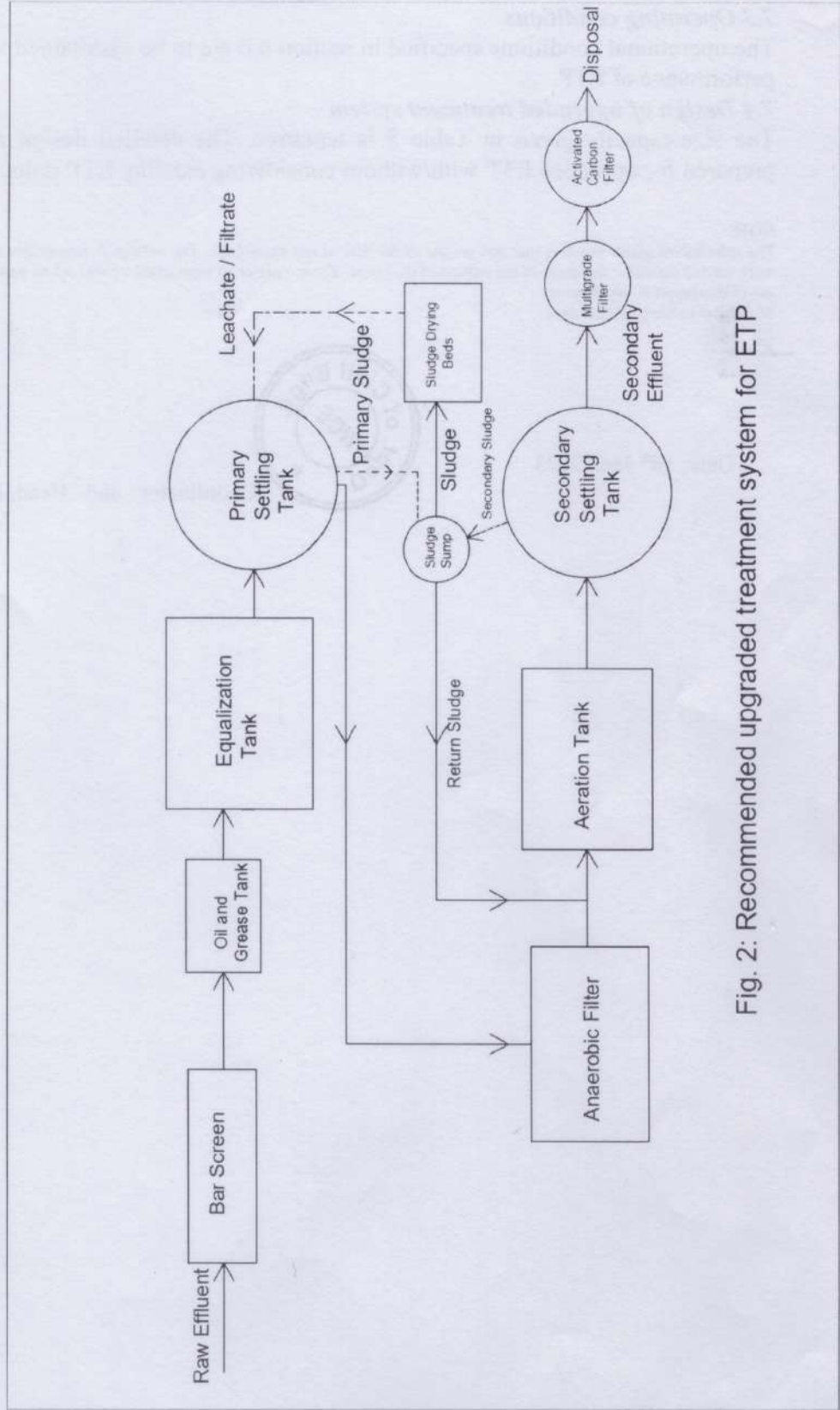


Fig. 2: Recommended upgraded treatment system for ETP





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Department of Civil Engineering

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7.3 Operating conditions

The operational conditions specified in section 6.0 are to be maintained to achieve the desired performance of ETP.

7.4 Design of upgraded treatment system

The size/capacity given in Table 5 is tentative. The detailed design and drawings should be prepared for upgraded ETP with/without considering existing ETP units.

NOTE:

The information given above is true and correct to the best of our knowledge. The college is responsible only for the technical aspects of the work carried out under the scope of the request of the client. The college or its representative will not be party to legal implications arising out of use of this report in any manner.

** Subject to Sangli jurisdiction.

Date: 16th Jan., 2023



Dr. G. R. Munavalli
Coordinator and Head, Dept., of Civil Engg.



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Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/52

Date: 06/03/2023 04:23 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0039487		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	ETP (Outlet)		
Lab code :	MPCB/RL-Chiplun/JVS/22-23/1522		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No.:	173
Date of Sample Collection.(dd/mm/yyyy) :	19/01/2023 12:30 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	20/01/2023 05:16 PM
Analysis start Date (dd/mm/yyyy). :	20/01/2023 06:15 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	6.1			
2	Total Dissolved Solids(TDS)	313.0	mg/l		
3	Suspended Solids (SS)	35.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	84.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	94.87	mg/l		
6	Chemical Oxygen Demand (COD)	227.2	mg/l		
7	Sulphate	67.52	mg/l		
8	Oil & Grease	2.6	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

Comment for Amended Report:

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Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

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Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/51

Date: 06/03/2023 04:23 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0039486		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (Krishna river (Near nagthane KT weir)		
Lab code :	MPCB/RL-Chiplun/JVS/22-23/1521		
Sampling Method(s) :	Sample Details (Water/Air/HW) :	Water	
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	19/01/2023 01:35 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	20/01/2023 05:15 PM
Analysis start Date (dd/mm/yyyy) . :	20/01/2023 06:16 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	6.4			
2	Total Dissolved Solids(TDS)	89.0	mg/l		
3	Suspended Solids (SS)	20.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	4.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	16.89	mg/l		
6	Chemical Oxygen Demand (COD)	20.0	mg/l		
7	Sulphate	5.65	mg/l		
8	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

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Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

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Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/50

Date: 06/03/2023 04:23 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0039485		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (Nagthane Nalla)		
Lab code :	MPCB/RL-Chiplun/JVS/22-23/1520		
Sampling Method(s) :	Sample Details (Water/Air/HW) :	Water	
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	19/01/2023 01:20 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	20/01/2023 05:14 PM
Analysis start Date (dd/mm/yyyy) .:	20/01/2023 06:16 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	8.2			
2	Total Dissolved Solids(TDS)	1820.0	mg/l		
3	Suspended Solids (SS)	12.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	4.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	425.37	mg/l		
6	Chemical Oxygen Demand (COD)	20.8	mg/l		
7	Sulphate	202.95	mg/l		
8	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

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Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
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Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/49

Date: 06/03/2023 04:23 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0039484		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (By pass of ETP outlet (Padawalwadi nalla-cement pipe))		
Lab code :	MPCB/RL-Chiplun/JVS/22-23/1519		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	19/01/2023 11:20 AM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	20/01/2023 05:13 PM
Analysis start Date (dd/mm/yyyy) :	20/01/2023 06:18 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	7.1			
2	Total Dissolved Solids(TDS)	558.0	mg/l		
3	Suspended Solids (SS)	17.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	4.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	73.63	mg/l		
6	Chemical Oxygen Demand (COD)	20.0	mg/l		
7	Sulphate	35.59	mg/l		
8	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Anil N Sandansing

Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
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Regional Laboratory,
Chiplun,

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Laboratory MoEF Recognition :

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Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/48

Date: 06/03/2023 04:22 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0039483		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (Padawalwadi Nalla)		
Lab code :	MPCB/RL-Chiplun/JVS/22-23/1518		
Sampling Method(s) :	Sample Details (Water/Air/HW) :	Water	
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	19/01/2023 11:05 AM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	20/01/2023 05:11 PM
Analysis start Date (dd/mm/yyyy) . :	20/01/2023 06:19 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	8.1			
2	Total Dissolved Solids(TDS)	1884.0	mg/l		
3	Suspended Solids (SS)	15.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	4.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	605.81	mg/l		
6	Chemical Oxygen Demand (COD)	21.6	mg/l		
7	Sulphate	113.64	mg/l		
8	Oil & Grease	BDL	mg/l		

End of The Report

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Comment (if any):

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Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
Regional Laboratory,
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Test Report No.: MPCB/RL-Chiplun/JVS/22-23/01/18

Date: 18/01/2023 02:15 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0035822		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	ETP (Outlet)		
Lab code :	MPCB/RL-Chiplun/JVS/22-23/1147		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	30/11/2022 11:25 AM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	07/12/2022 05:03 PM
Analysis start Date (dd/mm/yyyy). :	08/12/2022 11:41 AM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	6.0			
2	Total Dissolved Solids(TDS)	1157.0	mg/l		
3	Suspended Solids (SS)	79.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	70.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	65.38	mg/l		
6	Chemical Oxygen Demand (COD)	232.0	mg/l		
7	Sulphate	196.60	mg/l		
8	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

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Remark: - Note: This test report refers only to the sample submitted for the testing.

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Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing


Anil N Sandansing
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Regional Laboratory,
Chiplun,

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Report Outward No.: MPCB/RL-Chiplun/JVS/22-23/06/154
 Date: 22/06/2022 03:19 PM

Analysis Report-Water (JVS)

Client/Industry/location Name & Address
Padmabhushan Krantiveer Dr. Naganathanna Nayakwadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd. R60 Distillery (molasses / grain /yeast based)

Sample Details	
Field Sample ID :	BR-0023198
Laboratory Sample Code :	MPCB/RL-Chiplun/JVS/22-23/273
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)
Seal No. :	173
Type of Industry / Location details :	red
Sample Collected On :	May 18 2022 11:45:00:000AM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	7.9		
2	Total Dissolved Solids(TDS)	931.0	mg/l	
3	Suspended Solids (SS)	19.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	2.6	mg/l	
5	Chloride	190.54	mg/l	
6	Chemical Oxygen Demand (COD)	26.8	mg/l	
7	Sulphate	180.40	mg/l	
8	Oil & Grease	BDL	mg/l	

Report Type: final

Report generated on: 2022-06-22 15:19:12

Compiled & Approved by: Anil N Sandansing

Reviewed on Date: 22/06/2022 03:19 PM

Reviewed by: Anil N Sandansing

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Report Outward No.: MPCB/RL-Chiplun/JVS/22-23/06/143
Date: 22/06/2022 12:26 PM

Analysis Report-Water (JVS)

Client/Industry/location Name & Address
Padmabhushan Krantiveer Dr. Naganathanna Nayakwadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd. R60 Distillery (molasses / grain /yeast based)

Sample Details	
Field Sample ID :	BR-0023197
Laboratory Sample Code :	MPCB/RL-Chiplun/JVS/22-23/272
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)
Seal No. :	173
Type of Industry / Location details :	red
Sample Collected On :	May 18 2022 11:35:00:000AM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	7.2		
2	Total Dissolved Solids(TDS)	250.0	mg/l	
3	Suspended Solids (SS)	26.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	2.4	mg/l	
5	Chloride	23.04	mg/l	
6	Chemical Oxygen Demand (COD)	25.2	mg/l	
7	Sulphate	12.75	mg/l	
8	Oil & Grease	BDL	mg/l	

Report Type: final

Report generated on: 2022-06-22 12:26:02

Compiled & Approved by: Anil N Sandansing

Reviewed on Date: 22/06/2022 12:26 PM

Reviewed by: Anil N Sandansing

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Report Outward No.: MPCB/RL-Chiplun/JVS/22-23/06/142
 Date: 22/06/2022 12:25 PM

Analysis Report-Water (JVS)

Client/Industry/location Name & Address
Padmabhushan Krantiveer Dr. Naganathanna Nayakwadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd. R60 Distillery (molasses / grain /yeast based)

Sample Details	
Field Sample ID :	BR-0023196
Laboratory Sample Code :	MPCB/RL-Chiplun/JVS/22-23/271
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)
Seal No. :	173
Type of Industry / Location details :	red
Sample Collected On :	May 18 2022 11:30:00:000AM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	7.6		
2	Total Dissolved Solids(TDS)	1459.0	mg/l	
3	Suspended Solids (SS)	28.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	2.8	mg/l	
5	Chloride	330.30	mg/l	
6	Chemical Oxygen Demand (COD)	30.8	mg/l	
7	Sulphate	457.60	mg/l	
8	Oil & Grease	BDL	mg/l	

Report Type: final


Report generated on: 2022-06-22 12:25:54

Compiled & Approved by: Anil N Sandansing

Reviewed on Date: 22/06/2022 12:25 PM

Reviewed by: Anil N Sandansing

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Report Outward No.: MPCB/RL-Chiplun/JVS/22-23/04/49
Date: 11/04/2022 11:34 AM

Analysis Report-Water (JVS)

Client/Industry/location Name & Address
Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd

Sample Details	
Field Sample ID :	BR-0018920
Laboratory Sample Code :	MPCB/RL-Chiplun/JVS/21-22/1250
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)
Seal No. :	173
Type of Industry / Location details :	
Sample Collected On :	Feb 28 2022 03:15:00:000PM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	7.9		
2	Total Dissolved Solids(TDS)	809.0	mg/l	
3	Suspended Solids (SS)	28.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	3.6	mg/l	
5	Chloride	126.76	mg/l	
6	Chemical Oxygen Demand (COD)	22.4	mg/l	
7	Sulphate	86.24	mg/l	
8	Oil & Grease	BDL	mg/l	

Report Type: final

Report generated on: 2022-04-11 11:34:33

Compiled & Approved by: Anil N Sandansing

Reviewed on Date: 11/04/2022 11:34 AM

Reviewed by: Anil N Sandansing

Anil N Sandansing (Lab. I/c.)
Approving Authority
Reviewing Authority

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---	--	--

Report Outward No.: MPCB/RL-Chiplun/JVS/22-23/04/48
 Date: 11/04/2022 11:34 AM

Analysis Report-Water (JVS)

Client/Industry/location Name & Address
Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd

Sample Details	
Field Sample ID :	BR-0018919
Laboratory Sample Code :	MPCB/RL-Chiplun/JVS/21-22/1249
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)
Seal No. :	173
Type of Industry / Location details :	
Sample Collected On :	Feb 28 2022 03:05:00:000PM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	5.9		
2	Total Dissolved Solids(TDS)	607.0	mg/l	
3	Suspended Solids (SS)	40.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	85.0	mg/l	
5	Chloride	28.49	mg/l	
6	Chemical Oxygen Demand (COD)	237.2	mg/l	
7	Sulphate	10.74	mg/l	
8	Oil & Grease	BDL	mg/l	

Report Type: final

Report generated on: 2022-04-11 11:34:18

Compiled & Approved by: Anil N Sandansing

Reviewed on Date: 11/04/2022 11:34 AM

Reviewed by: Anil N Sandansing

Anil N Sandansing (Lab. I/c.)
 Approving Authority
 Reviewing Authority

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---	--	--

Report Outward No.: MPCB/RL-Chiplun/JVS/21-22/02/121
Date: 16/02/2022 12:03 PM

Analysis Report-Water (JVS)

Client/Industry/location Name & Address
Padmabhushan Krantiveer Dr. Naganathanna Nayakwadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd. R60 Distillery (molasses / grain /yeast based)

Sample Details	
Field Sample ID :	BR-0015320
Laboratory Sample Code :	MPCB/RL-Chiplun/JVS/21-22/951
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)
Seal No. :	173
Type of Industry / Location details :	red
Sample Collected On :	Dec 23 2021 12:30:00:000PM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	8.0		
2	Total Dissolved Solids(TDS)	784.0	mg/l	
3	Suspended Solids (SS)	84.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	46.0	mg/l	
5	Chloride	53.93	mg/l	
6	Chemical Oxygen Demand (COD)	143.2	mg/l	
7	Sulphate	35.60	mg/l	
8	Oil & Grease	BDL	mg/l	

Report Type: final

Report generated on: 2022-02-16 12:03:47

Compiled & Approved by: Anil N Sandansing

Reviewed on Date: 16/02/2022 12:03 PM

Reviewed by: Anil N Sandansing

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---	---	--

Repot Outward No.: MPCB/RL-Chiplun/JVS/21-22/10/18

Date: 27/10/2021 05:51 PM

Analysis Report-Water (JVS)

Client/Industry/location Name & Address
M/S PKDNNHKASSKLTD WALWE R60 Distillery (molasses / grain /yeast based)

Sample Details	
Field Sample ID :	BR-0005392
Laboratory Sample Code :	MPCB/RL-Chiplun/JVS/21-22/295
Sample Details (Water/Air/HW) :	Water
Sample Volume Received :	
Sample Collected By :	SRO-Sangli (Shri. Navanath Sambhaji Awatade) (SRO-Sangli)
Seal No. :	142
Type of Industry / Location details :	red
Sample Collected On :	Aug 19 2021 01:30:00:00PM

Sr.No	Parameter	Result	Unit	Method of analysis
1	pH	8.3		
2	Total Dissolved Solids(TDS)	902.0	mg/l	
3	Suspended Solids (SS)	48.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	NA	mg/l	
5	Chloride	120.86	mg/l	
6	Chemical Oxygen Demand (COD)	25.6	mg/l	
7	Sulphate	164.20	mg/l	
8	Oil & Grease	BDL	mg/l	

Sr.No	Parameter	Reason	Reason Detail
4	Biochemical Oxygen Demand (BOD)	NA	BOD Incubator not working

Where, NA: Not Analysed ND: Not Detectable

Report Type: final

Report generated on: 2021-10-27 17:51:46

Compiled & Approved by: Anil N Sandansing

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Test Report No.: MPCB/RL-Chiplun/JVS/24-25/05/12

Date: 31/05/2024 05:21 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0067651		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (Hal nalla)		
Lab code :	MPCB/RL-Chiplun/JVS/23-24/1762		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	27/02/2024 11:50 AM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	01/03/2024 03:37 PM
Analysis start Date (dd/mm/yyyy). :	11/03/2024 10:45 AM	Analysis end Date (dd/mm/yyyy). :	31/05/2024 05:17 PM

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted
1	pH	8.0		-
2	Total Dissolved Solids(TDS)	362.0	mg/l	-
3	Suspended Solids (SS)	11.0	mg/l	-
4	Biochemical Oxygen Demand (BOD)	4.0	mg/l	-
5	Chloride	32.74	mg/l	-
6	Chemical Oxygen Demand (COD)	16.0	mg/l	-
7	Sulphate	24.84	mg/l	-

Sr.No	Parameter	Results	Unit	Method Adopted
8	Oil & Grease	BDL	mg/l	-

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scope.

Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Dayanand Tare

Results Approved by: Dayanand Tare

Results Reviewed by: Dayanand Tare

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Note :

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Dayanand Tare
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

End of The Report

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Test Report No.: MPCB/RL-Chiplun/JVS/23-24/03/70

Date: 26/03/2024 11:29 AM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0064113		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (Hal nalla)		
Lab code :	MPCB/RL-Chiplun/JVS/23-24/1556		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	29/01/2024 03:30 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	01/02/2024 03:02 PM
Analysis start Date (dd/mm/yyyy). :	05/02/2024 12:43 PM	Analysis end Date (dd/mm/yyyy). :	26/03/2024 11:09 AM

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted
1	pH	8.0		-
2	Total Dissolved Solids(TDS)	1436.0	mg/l	-
3	Suspended Solids (SS)	22.0	mg/l	-
4	Biochemical Oxygen Demand (BOD)	32.0	mg/l	-
5	Chloride	229.33	mg/l	-
6	Chemical Oxygen Demand (COD)	132.0	mg/l	-
7	Sulphate	264.30	mg/l	-

Sr.No	Parameter	Results	Unit	Method Adopted
8	Oil & Grease	BDL	mg/l	-

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Dayanand Tare

Results Approved by: Dayanand Tare

Results Reviewed by: Dayanand Tare

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Note :

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Dayanand Tare
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

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REGIONAL LABORATORY, CHIPLUN

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Test Report No.: MPCB/RL-Chiplun/JVS/23-24/03/68

Date: 26/03/2024 11:29 AM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0064111		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	ETP (Outlet)		
Lab code :	MPCB/RL-Chiplun/JVS/23-24/1554		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	29/01/2024 03:20 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	01/02/2024 03:00 PM
Analysis start Date (dd/mm/yyyy). :	05/02/2024 12:43 PM	Analysis end Date (dd/mm/yyyy). :	26/03/2024 11:08 AM

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted
1	pH	8.1		
2	Total Dissolved Solids(TDS)	986.0	mg/l	
3	Suspended Solids (SS)	23.0	mg/l	
4	Biochemical Oxygen Demand (BOD)	34.0	mg/l	
5	Chloride	67.88	mg/l	
6	Chemical Oxygen Demand (COD)	130.0	mg/l	
7	Sulphate	44.08	mg/l	

Sr.No	Parameter	Results	Unit	Method Adopted
8	Oil & Grease	BDL	mg/l	

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Dayanand Tare

Results Approved by: Dayanand Tare

Results Reviewed by: Dayanand Tare

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Dayanand Tare
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

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Test Report No.: MPCB/RL-Chiplun/JVS/23-24/02/58

Date: 23/02/2024 01:17 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0062321		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (Hal Nalla)		
Lab code :	MPCB/RL-Chiplun/JVS/23-24/1334		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	28/12/2023 02:25 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	29/12/2023 04:00 PM
Analysis start Date (dd/mm/yyyy). :	29/12/2023 05:57 PM	Analysis end Date (dd/mm/yyyy). :	23/02/2024 12:55 PM

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted
1	pH	8.7		-
2	Total Dissolved Solids(TDS)	2088.0	mg/l	-
3	Suspended Solids (SS)	13.0	mg/l	-
4	Biochemical Oxygen Demand (BOD)	64.0	mg/l	-
5	Chloride	321.70	mg/l	-
6	Chemical Oxygen Demand (COD)	140.0	mg/l	-
7	Sulphate	537.20	mg/l	-

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NABL Certificate No.:

Validity

Laboratory MoEF Recognition :

Validity

Test Report No.: MPCB/RL-Chiplun/JVS/23-24/05/39

Date: 03/05/2023 06:32 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0042842		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganathanna Nayakwadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd. R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (Treated ETP Outlet)		
Lab code :	MPCB/RL-Chiplun/JVS/23-24/19		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	28/03/2023 12:00 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	04/04/2023 04:47 PM
Analysis start Date (dd/mm/yyyy). :	05/04/2023 12:08 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	6.5			
2	Total Dissolved Solids(TDS)	691.0	mg/l		
3	Suspended Solids (SS)	19.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	84.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	75.31	mg/l		
6	Chemical Oxygen Demand (COD)	232.8	mg/l		
7	Sulphate	127.40	mg/l		
8	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Anil N Sandansing

Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

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NABL Certificate No.:

Validity

Laboratory MoEF Recognition :

Validity

Test Report No.: MPCB/RL-Chiplun/JVS/23-24/05/38

Date: 03/05/2023 06:32 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0042841		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganathanna Nayakwadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd. R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (Mixed Treated Effluent)		
Lab code :	MPCB/RL-Chiplun/JVS/23-24/18		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	28/03/2023 11:55 AM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	04/04/2023 04:47 PM
Analysis start Date (dd/mm/yyyy). :	05/04/2023 12:08 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	5.0			
2	Total Dissolved Solids(TDS)	1088.0	mg/l		
3	Suspended Solids (SS)	47.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	68.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	103.70	mg/l		
6	Chemical Oxygen Demand (COD)	216.0	mg/l		
7	Sulphate	677.40	mg/l		
8	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Anil N Sandansing

Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

This is an Electronically generated report does not require signature

Note :

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4. Customer complaint register is available at laboratory.
5. The Contents of this Report shall not be reproduced in part or in full without written approval of laboratory.
6. MU values will be reported on request.

MAHARASHTRA POLLUTION CONTROL BOARD
REGIONAL LABORATORY, CHIPLUN

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Visit us at : <http://mpcb.gov.in>
mail : mpcbchiplunlab@mpcb.gov.in



Regional Laboratory, Chiplun,
Maharashtra Pollution Control Board,
105,106 Parkar Complex, 1st Floor,
Behind Nagar Parishad, Chiplun, Dist.
Ratnagiri. 415 605

NABL Certificate No.:

Validity

Laboratory MoEF Recognition :

Validity

Test Report No.: MPCB/RL-Chiplun/JVS/23-24/05/37

Date: 03/05/2023 06:32 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0042840		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganathanna Nayakwadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd. R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (Padawalwadi Nalla)		
Lab code :	MPCB/RL-Chiplun/JVS/23-24/17		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	28/03/2023 11:35 AM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	04/04/2023 04:46 PM
Analysis start Date (dd/mm/yyyy) :	05/04/2023 12:08 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	6.3			
2	Total Dissolved Solids(TDS)	852.0	mg/l		
3	Suspended Solids (SS)	97.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	80.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	66.40	mg/l		
6	Chemical Oxygen Demand (COD)	234.8	mg/l		
7	Sulphate	110.10	mg/l		
8	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Anil N Sandansing

Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

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Note :

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**MAHARASHTRA POLLUTION CONTROL BOARD
REGIONAL LABORATORY, CHIPLUN**

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mail : mpcbchiplunlab@mpcb.gov.in



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105,106 Parkar Complex, 1st Floor,
Behind Nagar Parishad, Chiplun, Dist.
Ratnagiri. 415 605

NABL Certificate No.:	Validity
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Laboratory MoEF Recognition :	Validity
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Test Report No.: MPCB/RL-Chiplun/JVS/23-24/05/36	Date: 03/05/2023 06:32 PM
--	---------------------------

Analysis Report-Water (JVS)

Field Sample ID :	BR-0042839		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganathanna Nayakwadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd. R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (Nagthane Odha)		
Lab code :	MPCB/RL-Chiplun/JVS/23-24/16		
Sampling Method(s) :	Sample Details (Water/Air/HW) :	Water	
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	28/03/2023 11:20 AM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	04/04/2023 04:45 PM
Analysis start Date (dd/mm/yyyy). :	05/04/2023 12:08 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	7.4			
2	Total Dissolved Solids(TDS)	961.0	mg/l		
3	Suspended Solids (SS)	72.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	40.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	111.75	mg/l		
6	Chemical Oxygen Demand (COD)	136.0	mg/l		
7	Sulphate	277.70	mg/l		
8	Oil & Grease	BDL	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Anil N Sandansing

Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

This is an Electronically generated report does not require signature

Note :

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MAHARASHTRA POLLUTION CONTROL BOARD
REGIONAL LABORATORY, CHIPLUN

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mail : mpcbchiplunlab@mpcb.gov.in



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Maharashtra Pollution Control Board,
105,106 Parkar Complex, 1st Floor,
Behind Nagar Parishad, Chiplun, Dist.
Ratnagiri. 415 605

NABL Certificate No.:

Validity

Laboratory MoEF Recognition :

Validity

Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/371

Date: 27/03/2023 03:05 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0042169		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganathanna Nayakwadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd. R12 Sugar (excluding Khandsari)		
Sampling Location :	ETP (Outlet)		
Lab code :	MPCB/RL-Chiplun/JVS/22-23/1814		
Sampling Method(s) :		Sample Details (Water/Air/HW) :	Water
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	28/02/2023 04:45 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	03/03/2023 04:28 PM
Analysis start Date (dd/mm/yyyy) .:	06/03/2023 02:21 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	5.5			
2	Total Dissolved Solids(TDS)	1316.0	mg/l		
3	Suspended Solids (SS)	83.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	66.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	243.92	mg/l		
6	Chemical Oxygen Demand (COD)	220.0	mg/l		
7	Sulphate	91.20	mg/l		
8	Oil & Grease	6.4	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Anil N Sandansing

Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

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Note :

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2. # indicates paramters are not in scope of NABL(ISO:17025:2017)
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REGIONAL LABORATORY, CHIPLUN

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105,106 Parkar Complex, 1st Floor,
Behind Nagar Parishad, Chiplun, Dist.
Ratnagiri. 415 605

NABL Certificate No.:	Validity
-----------------------	----------

Laboratory MoEF Recognition :	Validity
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Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/54	Date: 06/03/2023 04:23 PM
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Analysis Report-Water (JVS)

Field Sample ID :	BR-0039489		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (well to bypass tank)		
Lab code :	MPCB/RL-Chiplun/JVS/22-23/1524		
Sampling Method(s) :	Sample Details (Water/Air/HW) :	Water	
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	19/01/2023 12:35 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	20/01/2023 05:19 PM
Analysis start Date (dd/mm/yyyy). :	20/01/2023 06:13 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	6.1			
2	Total Dissolved Solids(TDS)	764.0	mg/l		
3	Suspended Solids (SS)	30.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	88.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	177.35	mg/l		
6	Chemical Oxygen Demand (COD)	238.0	mg/l		
7	Sulphate	64.02	mg/l		
8	Oil & Grease	3.8	mg/l		

End of The Report

Abbreviations: - BDL=Below Detectable limit, N.D.=Not Detected, N.A.= Not Analyzed, * Not covered under NABL scop.

Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Anil N Sandansing

Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

This is an Electronically generated report does not require signature

Note :

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REGIONAL LABORATORY, CHIPLUN

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Maharashtra Pollution Control Board,
105,106 Parkar Complex, 1st Floor,
Behind Nagar Parishad, Chiplun, Dist.
Ratnagiri. 415 605

NABL Certificate No.:

Validity

Laboratory MoEF Recognition :

Validity

Test Report No.: MPCB/RL-Chiplun/JVS/22-23/03/53

Date: 06/03/2023 04:23 PM

Analysis Report-Water (JVS)

Field Sample ID :	BR-0039488		
Name & Address of the Industry	Padmabhushan Krantiveer Dr. Naganath Anna Nayakawdi Hutatma Kisan Ahir Sah. Sakhar Karkhana Ltd R12 Sugar (excluding Khandsari)		
Sampling Location :	OTHERS (ETP outlet + condensate water)		
Lab code :	MPCB/RL-Chiplun/JVS/22-23/1523		
Sampling Method(s) :	Sample Details (Water/Air/HW) :	Water	
Sampling drawn by (Officer name):	FO-Sangli (Shri. Rohidas R. Matkar)	Sample Volume Received :	
Sample submitted by (Name) :	FO-Sangli (Shri. Rohidas R. Matkar) (SRO-Sangli)	Seal No. :	173
Date of Sample Collection.(dd/mm/yyyy) :	19/01/2023 12:35 PM	Date of Sample receipt to Laboratory (dd/mm/yyyy) :	20/01/2023 05:18 PM
Analysis start Date (dd/mm/yyyy). :	20/01/2023 06:13 PM		

Test Report

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
1	pH	5.9			
2	Total Dissolved Solids(TDS)	816.0	mg/l		
3	Suspended Solids (SS)	46.0	mg/l		
4	Biochemical Oxygen Demand (BOD)	90.0	mg/l		

Sr.No	Parameter	Results	Unit	Method Adopted	MU(If required)
5	Chloride	153.35	mg/l		
6	Chemical Oxygen Demand (COD)	239.2	mg/l		
7	Sulphate	74.00	mg/l		
8	Oil & Grease	3.2	mg/l		

End of The Report

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Comment (if any):

Comment for Amended Report:

Remark: - Note: This test report refers only to the sample submitted for the testing.

Results Compiled by: Anil N Sandansing

Results Approved by: Anil N Sandansing

Results Reviewed by: Anil N Sandansing

Anil N Sandansing
I/c Scientific Officer,
Regional Laboratory,
Chiplun,

This is an Electronically generated report does not require signature

Note :

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**MAHARASHTRA POLLUTION CONTROL BOARD
REGIONAL OFFICE, KOLHAPUR.**

Tel. No. (0231) 2652952,
2660448

Fax No. (0231) 2652952

E-mail:
rokolhapur@mpcb.gov.in



Udyog Bhavan,
Near Collector Office,
Kolhapur - 416 003.
Website: <http://mpcb.mah.nic.in>

No. MPCB/RO/KOP/NGT- 69/2022(WZ)/ 2312120001 Date: 12/12/2023.

To,

M/s. Padmabhushan Krantiveer Dr. Naganathanna
Nayakwadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd.
(Distillery Unit) Naganathanna Nagar;
Tal :- Walwa , Dist :- Sangli.

Sub: Environmental Compensation as per NGT Application No.
69/2022 (WZ), titled Sunil Pharate ,Sangli district Head of
Swatantara Bharat Paksh Vs. State of Maharashtra & Ors.
Passed an order on 29/08/2023.

Ref:1. NGT Order Dated 29/08/2023 in the Original application No.69/2022
(WZ)

- 2.. Report Submitted by SRO Sangli to RO Kolhapur on 23/11/2023
3. Proposal submitted to Higher authority at HQ, Mumbai on 23/11/23.
4. Approval received from Competent authority from HQ, Mumbai.

Sir,

Order No.69/2022 (WZ) has been passed by Hon'ble NGT dtd., 29/08/2023.

In the last order passed, NGT has directed to levy Environmental Compensation &
penalty to your unit. Environmental Compensation has been calculated by MPCB.

In view of the above you are directed to deposit the amount of Rs. 56,70,000/-
to the Regional Office, M.P.C.Board Kolhapur within 15 days. The details of
Account of Regional Office, M.P.C.Board Kolhapur is as below :-

Bank Name and address : State Bank Of India. Kolhapur Treasury.

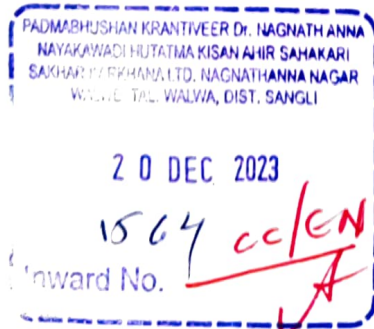
Ashish Chambers, 398/B/E ward, Shahupuri, Kolhapur

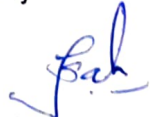
Account Number : 11303165287

IFSC Code : SBIN0007249

Failure on your part to comply with this directions board will take necessary
steps for recovery of the said amount which please be noted.

This is issued with the approval of competent Authority.




(J.S. Salunkhe)

Regional Officer,
MPCB Kolhapur.

2.

Copy submitted for information to :-

1. Member Secretary, M.P.C.B, Mumbai.
2. Joint Director (APC), M.P.C.B, Mumbai

Copy for further follow up :

- Sub Regional Officer, MPCB, Sangli :- He is directed to utilize the said amount of compensation within a period of 6 months for the District Environment Plan in consultation with the Collector, Sangli & to ensure the compliance of the above direction and submit ATR to this office & HOD for necessary record under intimation.



पद्मभूषण क्रांतिवीर डॉ. नागनाथअण्णा नायकवडी हुतात्मा किसान अहिर सहकारी साखर कारखाना लि;

नागनाथअण्णानगर, वाळवे, ता.वाळवा, जि.सांगली. (महाराष्ट्र राज्य) पिन : - ४१६ ३१३

Padmabhushan Krantiveer Dr. Nagnathanna Nayakawadi Hutatma Kisan Ahir Sahakari Sakhar Karkhana Ltd ;

Nagnathannagar, Walwe, Tal. Walwa, Dist . Sangli (Maharashtra State) Pin- 416 313



Email : ast_hkl@bsnl.in, hutatmassk@gmail.com, Web : http://hutatmasugar.sets.co.in, Phone : (02342) 267538 /40 /41, Fax : (02342) 267539

Ref.No. PKDMMHKASSK/ENV/2023-24/2505

Date: 22.12.2023

To,
Mr. J. S. Salunkhe
Regional Officer
Maharashtra Pollution Control Board (MPCB)
Udyog Bhavan ,Regional Office,
Kolhapur- 416003

Ref: Your letter bearing No.MPCB/RO/KOP/NGT-69/2022(WZ)/231212001 dated 22.12.2023

Subject: Reply to your letter

Sir,

The Factory is in receipt of your aforementioned letter and is would like to respond to the same as under:-

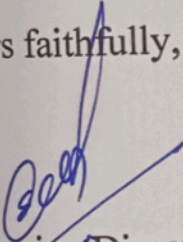
01. It is submitted that the Original Application No.69 of 2022 is pending before the Hon'ble National Green Tribunal (WZ), Pune for adjudication. Vide order dated 29.08.2023 the Hon'ble Tribunal had directed to your good self to conduct an investigation for identification of the Polluters on account of fish killing in River Krishna. You were also directed to impose environmental damage compensation on the Polluter.
02. You have filed anAdditional Report dated 28.11.2023 before the Hon'ble NGT, where you have computed the Environmental Damage

Compensation. It is submitted that, they said Report was filed by you at the last minute and hence, the Karkhana had to seek time from the Hon'ble Tribunal to file a suitable reply to the same. The Hon'ble Tribunal has granted time and the case is now adjourned to 15th February 2024.

03. It is submitted that, the Hon'ble Tribunal has not issued any directions for imposing and/or recovering any Environmental Damage Compensation from the Karkhana. The said letter is nothing but a unilateral act on your part and a knee jerk reaction for the recovery of compensation, which has never been levied upon the Karkhana. You are thus, requested to you please re-think about above referance letter and inform us accordingly.

Thanking you,

Yours faithfully,



Managing Director

P.K.DR.N.N.Hutatma kisan ahir S.S.K.Ltd.

Walave.

Copy to -

1. Member Secretary, M.P.C.B, Mumbai
2. Joint Director(APC), M.P.C.B, Mumbai



**Dr. SUBBARAO'S ENVIRONMENT CENTER**

"Arundhati", Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.

Phone : Sangli - 0233 - 2301857, (M) 9372109522, 9890992118, 9890454493,

E-mail : bssubbarao@yahoo.com / bssharat@yahoo.com / bsnagjyoti@yahoo.com

QCI - NABET Accredited EIA Consultant Organization - Certificate No.

NABET / EIA / 1922 / RA 0159 valid upto June 12, 2022,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 09-08-2021

The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-AA/02-22	End of Analysis : 25 February 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 26 February 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : AA3
Date of Collection / Sampling : 18 February 2022	Nature of Sample: Water
Date of Receipt : 18 February 2022	Sample Collected By: SEC Lab
Date of Analysis: 19 February 2022	Sample Quantity : 1 lit
Name of Sample : Digester Inlet	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	4.13	IS:3025 (P-11) 1983
2	C.O.D.	mg/l	1,28,000	IS:3025 (P-58) 2006
3	B.O.D.	mg/l	53,160	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,51,940	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	97,810	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	54,130	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	7853	IS:3025 (P-32) 1988
8	Sulphates	mg/l	6130	IS:3025 (P-24) 1986
9	Potassium	mg/l	18,900	IS:3025 (P-45) 1993

Remarks:**Thanking you,**

Analysed By

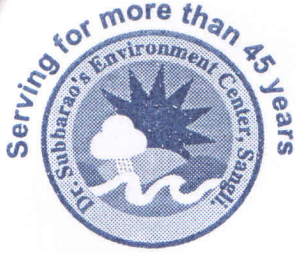
B. Subbarao
Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.
6. * -- Parameter not under NABL scope

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati", Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.
Phone : Sangli - 0233 - 2301857, (M) 9372109522, 9890992118, 9890454493,
E-mail : bssubbarao@yahoo.com / bssharat@yahoo.com / bsnagjyoti@yahoo.com
QCI - NABET Accredited EIA Consultant Organization - Certificate No.

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NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 09-08-2021

The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-AA/02-22	End of Analysis : 25 February 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 26 February 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : AA4
Date of Collection / Sampling : 18 February 2022	Nature of Sample: Water
Date of Receipt : 18 February 2022	Sample Collected By: SEC Lab
Date of Analysis: 19 February 2022	Sample Quantity : 1 lit
Name of Sample : Digester Outlet	

Sr. No.	Test Parameter	Unit	Result	Standards	Test Method
1	pH	-	8.01	---	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	7135	>6000	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	3169	< 3000	APHA 22 nd Edition-2012, 5560 C
4	C.O. D.	mg/l	38,592	35000-50000	IS:3025 (P-58) 2006
5	B.O. D.	mg/l	5285	5000-7000	IS:3025 (P-44) 1993
6	Total Solids	mg/l	65,140	60000-80000	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	37,970	35000-45000	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	27,170	25000-35000	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	6326	6000 - 8000	IS:3025 (P-32) 1988
10	Sulphates	mg/l	4935	4000 - 6000	IS:3025 (P-24) 1986
11	K	mg/l	12,700	---	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



B. Subbarao
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati", Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.
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TEST REPORT

Report Ref. No. : SEC/W-AA/02-22	End of Analysis : 25 February 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 26 February 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : AA1
Date of Collection / Sampling : 18 February 2022	Nature of Sample: Water
Date of Receipt : 18 February 2022	Sample Collected By: SEC Lab
Date of Analysis: 19 February 2022	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Inlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	4.66	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	1856	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	770	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2130	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	360	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	268	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	135	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	15	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

[Signature]
Analysed By



[Signature]
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-AA/02-22	End of Analysis : 25 February 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 26 February 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : AA2
Date of Collection / Sampling : 18 February 2022	Nature of Sample: Water
Date of Receipt : 18 February 2022	Sample Collected By: SEC Lab
Date of Analysis: 19 February 2022	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Outlet	


Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.47	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	128	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	46	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	550	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	54	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	106	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	85	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By 




Authorized Signatory
Technical Manager/ Quality Manager

Note:

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2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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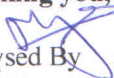
TEST REPORT

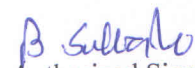
Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD1
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Raw Spentwash	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	2.83	IS:3025 (P-11) 1983
2	C.O.D.	mg/l	70,332	IS:3025 (P-58) 2006
3	B.O.D.	mg/l	30,294	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,02,137	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	59,821	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	42,316	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	6185	IS:3025 (P-32) 1988
8	Sulphates	mg/l	5278	IS:3025 (P-24) 1986
9	Potassium	mg/l	13,700	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By 


Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.
6. * -- Parameter not under NABL scope

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD2
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Concentrated Evaporation Raw Spentwash	


Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	7.12	IS:3025 (P-11) 1983
2	C.O.D.	mg/l	70,485	IS:3025 (P-58) 2006
3	B.O.D.	mg/l	32,572	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,19,413	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	56,582	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	62,831	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	9769	IS:3025 (P-32) 1988
8	Sulphates	mg/l	7385	IS:3025 (P-24) 1986
9	Potassium	mg/l	19,200	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By 




Authorized Signatory
Technical Manager/ Quality Manager

Note:

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3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.
6. * -- Parameter not under NABL scope

***END of Test Report ***



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TEST REPORT

Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD3
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Digester Outlet	

Sr. No.	Test Parameter	Unit	Result	Standards	Test Method
1	pH	-	8.29	---	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	7268	>6000	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	3250	< 3000	APHA 22 nd Edition-2012, 5560 C
4	C.O. D.	mg/l	41,847	35000-50000	IS:3025 (P-58) 2006
5	B.O. D.	mg/l	5425	5000-7000	IS:3025 (P-44) 1993
6	Total Solids	mg/l	68,729	60000-80000	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	39,132	35000-45000	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	29,597	25000-35000	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	6452	6000 - 8000	IS:3025 (P-32) 1988
10	Sulphates	mg/l	4968	4000 - 6000	IS:3025 (P-24) 1986
11	K	mg/l	13,500	11000-15000	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



B. Subbarao
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***

**Dr. SUBBARAO'S ENVIRONMENT CENTER**

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TEST REPORT

Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD6
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Process Condensate	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	9.78	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	103	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	21	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	180	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	5	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	16	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	10	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.



B. Subbarao

Authorized Signatory

Technical Manager/ Quality Manager

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD4
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Inlet	


Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	4.39	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	2360	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	980	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2610	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	405	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	278	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	152	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	15	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,


Analysed By




Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD5
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Outlet	

Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.40	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	122	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	42	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	710	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	56	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	110	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	92	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.



B. Subbarao
Authorized Signatory
Technical Manager/ Quality Manager

END of Test Report



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/C-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD7
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Compost
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	30.41	%	< 35
2	pH (Saturated)	6.53	--	6.5 – 8.5
3	Total Volatile Solids	61.37	%	60 – 65
4	Residual Ash	38.63	%	40 – 45
5	Nitrogen as N	1.69	%	>2.0
6	Phosphorus as P2O5	1.52	%	>0.50
7	Potassium as K2O	3.21	%	>3.0
8	Organic Carbon	27.5	%	20 – 30
9	C/N	16.27	--	< 17
Leachate Water (Filtrate)				
10	pH	7.68	--	6.5 – 8.5
11	C.O.D.	211	mg/l	< 250
12	B.O.D.	23	mg/l	< 30
13	Chlorides	247	mg/l	< 600
14	E. Conductivity	1360	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost

2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w

3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

Analysed By

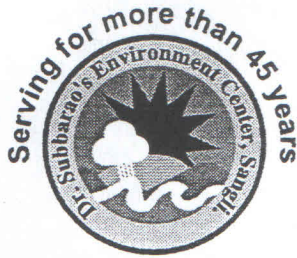
B. Subbarao
Authorized Signatory
Technical Manager/ Quality Manager

Note:

- The result pertains only for the sample tested.
- The test result shall not be reproduced except in full, without written approval of the laboratory.
- Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
- Retention period for the remnant shall be 30 days.
- ND- Not Detected.

***END of Test Report ***





SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati", Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.
 Phone : Sangli - 0233 - 2301857, (M) 9372109522, 9890992118, 9890454493,
 E-mail : bssubbarao@yahoo.com / bssharat@yahoo.com / bsnagjyoti@yahoo.com
 QCI - NABET Accredited ETA Consultant Organization - Certificate No.

NABET / EIA / 1619 / RA 0057 valid upto June 12, 2019,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 09-08-2019

TEST REPORT

Report Ref. No. : SEC/W-VD/01-21	End of Analysis : 27 January 2021
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 29 January 2021
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : VD2
Date of Collection / Sampling : 16 January 2021	Nature of Sample: Water
Date of Receipt : 16 January 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 January 2021	Sample Quantity : 1 lit
Name of Sample : Concentrated Raw Spentwash	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	3.15	IS:3025 (P-11) 1983
2	C.O.D	mg/l	1,38,211	IS:3025 (P-58) 2006
3	B.O.D	mg/l	56,320	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,70,540	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	91,210	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	79,330	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	16,726	IS:3025 (P-32) 1988
8	Sulphates	mg/l	11,789	IS:3025 (P-24) 1986
9	K	mg/l	24,400	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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NABET / EIA / 1922 / RA 0159 valid upto June 12, 2022,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 8121 valid upto 09-08-2021

The Validity is extended for one year upto 09-08-2022


TEST REPORT

Report Ref. No. : SEC/W-AA/02-22	End of Analysis : 25 February 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 26 February 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : AA3
Date of Collection / Sampling : 18 February 2022	Nature of Sample: Water
Date of Receipt : 18 February 2022	Sample Collected By: SEC Lab
Date of Analysis: 19 February 2022	Sample Quantity : 1 lit
Name of Sample : Spentlees	

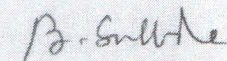
Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	2.54	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	196	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	70	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	125	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	ND	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	11	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	7	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,


Analysed By




Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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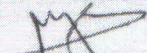
TEST REPORT

Report Ref. No. : SEC/W-AA/02-22	End of Analysis : 25 February 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 26 February 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : AA4
Date of Collection / Sampling : 18 February 2022	Nature of Sample: Water
Date of Receipt : 18 February 2022	Sample Collected By: SEC Lab
Date of Analysis: 19 February 2022	Sample Quantity : 1 lit
Name of Sample : Condensate After Anaerobic Digester MEE	

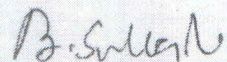
Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	7.11	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	1785	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	740	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	170	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	25	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	29	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	15	mg/l	IS:3025 (P-24) 1986
8	Nitrogen as N	98	mg/l	IS:3025(P-34)1983
9	Phosphorus as P ₂ O ₅	35	mg/l	IS:3025(P-31)1988
10	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,


Analysed By




Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



SEC

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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-ZQ/01-22	End of Analysis : 24 January 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 25 January 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : ZQ4
Date of Collection / Sampling : 14 January 2022	Nature of Sample: Water
Date of Receipt : 14 January 2022	Sample Collected By: SEC Lab
Date of Analysis: 15 January 2022	Sample Quantity : 1 lit
Name of Sample : Spentlees	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	2.58	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	172	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	61	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	110	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	ND	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	9	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	5	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

[Signature]
Analysed By



[Signature]
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



SEC

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TEST REPORT

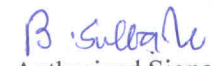
Report Ref. No. : SEC/C-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD7
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Compost
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	30.41	%	< 35
2	pH (Saturated)	6.53	--	6.5 – 8.5
3	Total Volatile Solids	61.37	%	60 – 65
4	Residual Ash	38.63	%	40 – 45
5	Nitrogen as N	1.69	%	>2.0
6	Phosphorus as P2O5	1.52	%	>0.50
7	Potassium as K2O	3.21	%	>3.0
8	Organic Carbon	27.5	%	20 – 30
9	C/N	16.27	--	< 17
Leachate Water (Filtrate)				
10	pH	7.68	--	6.5 – 8.5
11	C.O.D.	211	mg/l	< 250
12	B.O.D.	23	mg/l	< 30
13	Chlorides	247	mg/l	< 600
14	E. Conductivity	1360	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost
2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w
3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

Analysed By 


Authorized Signatory
Technical Manager/ Quality Manager

Note:

- The result pertains only for the sample tested.
- The test result shall not be reproduced except in full, without written approval of the laboratory.
- Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
- Retention period for the remnant shall be 30 days.
- ND- Not Detected.

***END of Test Report ***





SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati", Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.
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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/C-ZQ/01-22	End of Analysis : 24 January 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 25 January 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : ZQ15
Date of Collection / Sampling : 14 January 2022	Nature of Sample: Compost
Date of Receipt : 14 January 2022	Sample Collected By: SEC Lab
Date of Analysis: 15 January 2022	Sample Quantity : 1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	31.89	%	< 35
2	pH (Saturated)	6.52	--	6.5 - 8.5
3	Total Volatile Solids	61.73	%	60 - 65
4	Residual Ash	38.27	%	40 - 45
5	Nitrogen as N	1.62	%	>2.0
6	Phosphorus as P2O5	1.49	%	>0.50
7	Potassium as K2O	2.87	%	>3.0
8	Organic Carbon	27.2	%	20 - 30
9	C/N	16.79	--	< 17
Leachate Water (Filtrate)				
10	pH	7.58	--	6.5 - 8.5
11	C.O.D.	221	mg/l	< 250
12	B.O.D.	25	mg/l	< 30
13	Chlorides	263	mg/l	< 600
14	E. Conductivity	1370	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost
2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w
3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

Analysed By

B. Subbarao
Authorized Signatory
Technical Manager/ Quality Manager

Note:

- The result pertains only for the sample tested.
- The test result shall not be reproduced except in full, without written approval of the laboratory.
- Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
- Retention period for the remnant shall be 30 days.
- ND- Not Detected.

END of Test Report





SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-ZQ/01-22	End of Analysis : 24 January 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 25 January 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : ZQ2
Date of Collection / Sampling : 14 January 2022	Nature of Sample: Water
Date of Receipt : 14 January 2022	Sample Collected By: SEC Lab
Date of Analysis: 15 January 2022	Sample Quantity : 1 lit
Name of Sample : Concentrated Raw Spentwash	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	3.76	IS:3025 (P-11) 1983
2	C.O.D	mg/l	1,81,545	IS:3025 (P-58) 2006
3	B.O.D	mg/l	74,960	IS:3025 (P-44) 1993
4	Total Solids	mg/l	2,12,710	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	1,36,920	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	75,790	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	13,162	IS:3025 (P-32) 1988
8	Sulphates	mg/l	9170	IS:3025 (P-24) 1986
9	Potassium	mg/l	19,600	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



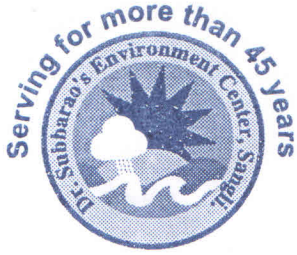
B. Subbarao
Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.
6. * -- Parameter not under NABL scope

***END of Test Report ***



SEC

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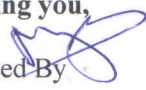
TEST REPORT

Report Ref. No. : SEC/W-ZQ/01-22	End of Analysis : 24 January 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 25 January 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : ZQ3
Date of Collection / Sampling : 14 January 2022	Nature of Sample: Water
Date of Receipt : 14 January 2022	Sample Collected By: SEC Lab
Date of Analysis: 15 January 2022	Sample Quantity : 1 lit
Name of Sample : Digester Outlet	

Sr. No.	Test Parameter	Unit	Result	Standards	Test Method
1	pH	-	8.55	---	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	7468	>6000	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	3328	< 3000	APHA 22 nd Edition-2012, 5560 C
4	C.O.D	mg/l	33,227	35000-50000	IS:3025 (P-58) 2006
5	B.O.D	mg/l	5192	5000-7000	IS:3025 (P-44) 1993
6	Total Solids	mg/l	68,760	60000-80000	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	38,250	35000-45000	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	30,510	25000-35000	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	6792	6000 - 8000	IS:3025 (P-32) 1988
10	Sulphates	mg/l	5361	4000 - 6000	IS:3025 (P-24) 1986
11	K	mg/l	13,500	---	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By 



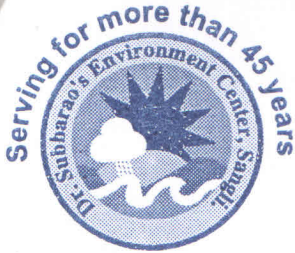

 Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



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TEST REPORT

Report Ref. No. : SEC/W-ZQ/01-22	End of Analysis : 24 January 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 25 January 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : ZQ5
Date of Collection / Sampling : 14 January 2022	Nature of Sample: Water
Date of Receipt : 14 January 2022	Sample Collected By: SEC Lab
Date of Analysis: 15 January 2022	Sample Quantity : 1 lit
Name of Sample : Distillery Condensate	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	7.08	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	314	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	110	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	160	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	20	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	26	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	12	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By



B. Subbarao
Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***


Dr. SUBBARAO'S ENVIRONMENT CENTER

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 The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-ZQ/01-22	End of Analysis : 24 January 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 25 January 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : ZQ4
Date of Collection / Sampling : 14 January 2022	Nature of Sample: Water
Date of Receipt : 14 January 2022	Sample Collected By: SEC Lab
Date of Analysis: 15 January 2022	Sample Quantity : 1 lit
Name of Sample : Spentlees	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	2.58	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	172	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	61	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	110	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	ND	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	9	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	5	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:
Thanking you,

 Analysed By 


B. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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 NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 09-08-2021
 The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-ZQ/01-22	End of Analysis : 24 January 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 25 January 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : ZQ1
Date of Collection / Sampling : 14 January 2022	Nature of Sample: Water
Date of Receipt : 14 January 2022	Sample Collected By: SEC Lab
Date of Analysis: 15 January 2022	Sample Quantity : 1 lit
Name of Sample : Raw Spentwash	


Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	3.44	IS:3025 (P-11) 1983
2	C.O. D	mg/l	81,268	IS:3025 (P-58) 2006
3	B.O. D	mg/l	34,590	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,19,350	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	81,480	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	37,870	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	7638	IS:3025 (P-32) 1988
8	Sulphates	mg/l	5904	IS:3025 (P-24) 1986
9	Potassium	mg/l	13,800	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By 




 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.
6. * -- Parameter not under NABL scope

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-ZQ/01-22	End of Analysis : 24 January 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 25 January 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : ZQ6
Date of Collection / Sampling : 14 January 2022	Nature of Sample: Water
Date of Receipt : 14 January 2022	Sample Collected By: SEC Lab
Date of Analysis: 15 January 2022	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Inlet	


Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	3.48	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	1970	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	810	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2290	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	380	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	292	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	154	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	20	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,


 Analysed By




 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-ZQ/01-22	End of Analysis : 24 January 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 25 January 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : ZQ7
Date of Collection / Sampling : 14 January 2022	Nature of Sample: Water
Date of Receipt : 14 January 2022	Sample Collected By: SEC Lab
Date of Analysis: 15 January 2022	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Outlet	

Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.18	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	127	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	46	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	570	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	55	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	112	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	90	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By



B. Subbarao
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-YH/12-21	End of Analysis : 18 December 2021
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 20 December 2021
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : YH1
Date of Collection / Sampling : 08 December 2021	Nature of Sample: Water
Date of Receipt : 08 December 2021	Sample Collected By: SEC Lab
Date of Analysis: 09 December 2021	Sample Quantity : 1 lit
Name of Sample : Digester Inlet	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	3.25	IS:3025 (P-11) 1983
2	C.O.D	mg/l	85,835	IS:3025 (P-58) 2006
3	B.O.D	mg/l	36,401	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,24,690	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	82,370	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	42,320	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	7840	IS:3025 (P-32) 1988
8	Sulphates	mg/l	6342	IS:3025 (P-24) 1986
9	Potassium	mg/l	15,100	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



B. Subbarao
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.
6. * -- Parameter not under NABL scope

END of Test Report



Dr. SUBBARAO'S ENVIRONMENT CENTER

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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-YH/12-21	End of Analysis : 18 December 2021
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 20 December 2021
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : YH2
Date of Collection / Sampling : 08 December 2021	Nature of Sample: Water
Date of Receipt : 08 December 2021	Sample Collected By: SEC Lab
Date of Analysis: 09 December 2021	Sample Quantity : 1 lit
Name of Sample : Digester Outlet	

Sr. No.	Test Parameter	Unit	Result	Standards	Test Method
1	pH	-	8.16	---	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	7260	>6000	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	3250	< 3000	APHA 22 nd Edition-2012, 5560 C
4	C.O.D	mg/l	33,406	35000-50000	IS:3025 (P-58) 2006
5	B.O.D	mg/l	5210	5000-7000	IS:3025 (P-44) 1993
6	Total Solids	mg/l	69,830	60000-80000	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	38,690	35000-45000	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	31,140	25000-35000	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	6810	6000 - 8000	IS:3025 (P-32) 1988
10	Sulphates	mg/l	5350	4000 - 6000	IS:3025 (P-24) 1986
11	K	mg/l	13,600	---	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



B. Subbarao

Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-YH/12-21	End of Analysis : 18 December 2021
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 20 December 2021
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : YH3
Date of Collection / Sampling : 08 December 2021	Nature of Sample: Water
Date of Receipt : 08 December 2021	Sample Collected By: SEC Lab
Date of Analysis: 09 December 2021	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Inlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	6.78	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	1790	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	730	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2130	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	370	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	280	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	142	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	20	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By


Authorized Signatory
Technical Manager/ Quality Manager
Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-YH/12-21	End of Analysis : 18 December 2021
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 20 December 2021
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : YH4
Date of Collection / Sampling : 08 December 2021	Nature of Sample: Water
Date of Receipt : 08 December 2021	Sample Collected By: SEC Lab
Date of Analysis: 09 December 2021	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Outlet	

Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.91	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	138	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	47	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	590	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	56	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	118	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	96	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By



B. Subbarao
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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NABET / EIA / 2023 / SA 0174 valid upto Dec 12, 2023,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. : SEC/W-LH/03-24	End of Analysis : 02 April 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 03 April 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : LH1, LH2 & LH3
Date of Collection / Sampling : 22 March 2024	Nature of Sample: Water
Date of Receipt : 23 March 2024	Sample Collected By: SEC Lab
Date of Analysis: 25 March 2024	Sample Quantity : 1 lit each sample
Name of Sample : Digester Inlet, Digester Outlet & MEE Spentwash	

Sr. No.	Test Parameter	Unit	Digester Inlet	Digester Outlet	MEE Spentash	Test Method
1	pH @ 25 °C	-	3.68	8.15	2.79	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	NA	6730	NA	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	5810	3182	NA	APHA 22 nd Edition-2012, 5560 C
4	Chemical Oxygen Demand	mg/l	1,96,207	48,361	2,67,130	IS:3025 (P-58) 2006
5	B.O.D.(3days at 27°C)	mg/l	89,195	5769	1,21,506	IS:3025 (P-44) 1993
6	Total Solids	mg/l	2,37,829	81,157	2,98,435	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	1,74,613	45,485	1,83,147	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	63,216	35,672	1,15,288	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	7155	6391	12,754	IS:3025 (P-32) 1988
10	Sulphates	mg/l	5389	4702	8963	IS:3025 (P-24) 1986
11	Potassium	mg/l	15,810	13,540	21,640	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected, NA- Not Applicable.



B. Subbarao
Authorized Signatory
Technical Manager/ Quality Manager

***END of Test Report ***


Dr. SUBBARAO'S ENVIRONMENT CENTER

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NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. : SEC/W-LH/03-24	End of Analysis : 02 April 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 03 April 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : LH4 & LH5
Date of Collection / Sampling : 22 March 2024	Nature of Sample: Water
Date of Receipt : 23 March 2024	Sample Collected By: SEC Lab
Date of Analysis: 25 March 2024	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Untreated & Sugar ETP Treated	

Sr. No.	Test Parameter	Sugar ETP Untreated	Sugar ETP Treated	Unit	Standards for Treated Sample	Test Method
1	pH @ 25 °C	10.98	7.56	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	4067	137	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1915	65	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	4158	1150	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	306	69	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	248	216	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	176	119	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	10	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:
Thanking you,

 Analysed By
 


B. Sullia
 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/C-LH/03-24	End of Analysis : 02 April 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 03 April 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : LH7
Date of Collection / Sampling : 22 March 2024	Nature of Sample: Compost
Date of Receipt : 23 March 2024	Sample Collected By: SEC Lab
Date of Analysis: 25 March 2024	Sample Quantity : 1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	27.09	%	< 35
2	pH (Saturated) @ 25 °C	6.53	--	6.5 – 8.5
3	Total Volatile Solids	61.07	%	60 – 65
4	Residual Ash	38.93	%	40 – 45
5	Nitrogen as N	1.59	%	1.5 – 2.0
6	Phosphorus as P2O5	1.81	%	1.5 – 2.0
7	Potassium as K2O	3.07	%	2.0 – 3.5
8	Organic Carbon	24.83	%	20 – 25
9	C/N	15.61	--	< 17
Leachate Water (Filtrate)				
10	pH @ 25 °C	7.89	--	6.5 – 8.5
11	C.O.D.	190	mg/l	< 250
12	B.O.D.	24	mg/l	< 30
13	Chlorides	205	mg/l	< 600
14	E. Conductivity	1471	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost

2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w

3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

Analysed By



B. Subbarao
 Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati", Opp. Sahayonagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.

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NABET / EIA / 2023 / SA 0174 valid upto Dec 12, 2023,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. : SEC/C-LF/02-24	End of Analysis : 30 March 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 30 March 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : LF1
Date of Collection / Sampling : 23 March 2024	Nature of Sample: Compost
Date of Receipt : 23 March 2024	Sample Collected By: By Party
Date of Analysis: 25 March 2024	Sample Quantity : 1 kg
Name of Sample : Ready Compost No. 1	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	27.69	%	< 35
2	pH (Saturated) @ 25 °C	6.54	--	6.5 – 8.5
3	Total Volatile Solids	61.03	%	60 – 65
4	Residual Ash	38.97	%	40 – 45
5	Nitrogen as N	1.57	%	1.5 – 2.0
6	Phosphorus as P ₂ O ₅	1.69	%	1.5 – 2.0
7	Potassium as K ₂ O	3.05	%	2.0 – 3.5
8	Organic Carbon	22.68	%	20 – 25
9	C/N	14.45	--	< 17
Leachate Water (Filtrate)				
10	pH @ 25 °C	7.84	--	6.5 – 8.5
11	C.O.D.	189	mg/l	< 250
12	B.O.D.	22	mg/l	< 30
13	Chlorides	196	mg/l	< 600
14	E. Conductivity	1340	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost

2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w

3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

Analysed By

Note:

- The result pertains only for the sample tested.
- The test result shall not be reproduced except in full, without written approval of the laboratory.
- Retention period for the remnant shall be 50 days.
- ND- Not Detected.



Dr. Sullu Rao

Authorized Signatory

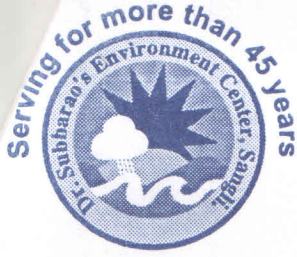
Technical Manager/ Quality Manager

PADMABHUSHAN KRANTIVEER Dr. NAGNATH ANNA
NAYAKAWADI HUTATMA KISAN AHIR SSK LTD
SANGLI (MAHARASHTRA)
WALVA, TAL. WALVA, DIST. SANGLI

27 APR 2024

***END of Test Report ***

Inward No. 81



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NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. : SEC/C-LF/02-24	End of Analysis : 30 March 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 30 March 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : LF2
Date of Collection / Sampling : 23 March 2024	Nature of Sample: Compost
Date of Receipt : 23 March 2024	Sample Collected By: By Party
Date of Analysis: 25 March 2024	Sample Quantity : 1 kg
Name of Sample : Ready Compost No. 2	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	27.35	%	< 35
2	pH (Saturated) @ 25 °C	6.57	--	6.5 – 8.5
3	Total Volatile Solids	57.73	%	60 – 65
4	Residual Ash	42.27	%	40 – 45
5	Nitrogen as N	1.54	%	1.5 – 2.0
6	Phosphorus as P ₂ O ₅	1.68	%	1.5 – 2.0
7	Potassium as K ₂ O	2.98	%	2.0 – 3.5
8	Organic Carbon	23.2	%	20 – 25
9	C/N	15.06	--	< 17
Leachate Water (Filtrate)				
10	pH @ 25 °C	7.90	--	6.5 – 8.5
11	C.O.D.	190	mg/l	< 250
12	B.O.D.	22	mg/l	< 30
13	Chlorides	185	mg/l	< 600
14	E. Conductivity	1470	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost

2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w

3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.



B. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-KQ/02-24	End of Analysis : 07 March 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 09 March 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : KQ1 & KQ2
Date of Collection / Sampling : 27 February 2024	Nature of Sample: Water
Date of Receipt : 28 February 2024	Sample Collected By: SEC Lab
Date of Analysis: 29 February 2024	Sample Quantity : 1 lit each sample
Name of Sample : Digester Inlet & Digester Outlet	

Sr. No.	Test Parameter	Unit	Digester Inlet	Digester Outlet	Test Method
1	pH @ 25 °C	-	3.60	8.22	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	NA	6950	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	5740	3291	APHA 22 nd Edition-2012, 5560 C
4	Chemical Oxygen Demand	mg/l	1,90,545	45,667	IS:3025 (P-58) 2006
5	B.O.D.(3days at 27°C)	mg/l	86,574	5602	IS:3025 (P-44) 1993
6	Total Solids	mg/l	2,26,925	78,397	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	1,67,137	43,294	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	59,788	35,103	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	6958	6270	IS:3025 (P-32) 1988
10	Sulphates	mg/l	5074	4605	IS:3025 (P-24) 1986
11	Potassium	mg/l	15,630	12,930	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analyzed By



B. Sullana
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected, NA- Not Applicable.

***END of Test Report ***



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TEST REPORT

Report Ref. No. : SEC/W-KQ/02-24	End of Analysis : 07 March 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 09 March 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : KQ3 & KQ4
Date of Collection / Sampling : 27 February 2024	Nature of Sample: Water
Date of Receipt : 28 February 2024	Sample Collected By: SEC Lab
Date of Analysis: 29 February 2024	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Untreated & Sugar ETP Treated	

Sr. No.	Test Parameter	Sugar ETP Untreated	Sugar ETP Treated	Unit	Standards for Treated Sample	Test Method
1	pH @ 25 °C	4.30	7.69	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	3360	125	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1638	61	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	3689	1246	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	280	65	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	296	208	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	171	104	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	10	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.



B. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

***END of Test Report ***

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-KQ/02-24	End of Analysis : 07 March 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 09 March 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : KQ5
Date of Collection / Sampling : 27 February 2024	Nature of Sample: Water
Date of Receipt : 28 February 2024	Sample Collected By: SEC Lab
Date of Analysis: 29 February 2024	Sample Quantity : 1 lit
Name of Sample : Borewell – Near Compost Site Bore	

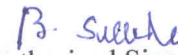
Sr. No.	Test Parameter	Unit	Results	IS:2296 Standards	Test Method
1	Color	Hazen	< 5	--	IS:3025 (P-4) 1983
2	Odor	--	Agreeable	--	IS:3025 (P-5) 1983
3	pH @ 25 °C	--	7.24	6.5 – 8.5	IS:3025 (P-11) 1983
4	Turbidity	NTU	0.4	--	IS:3025 (P-10) 1984
5	Total Alkalinity (as CaCO ₃)	mg/l	350	--	IS:3025 (P-23) 1986
6	Chemical Oxygen Demand	mg/l	31	--	IS:3025 (P-58) 2006
7	B.O.D. (3day's at 27°C)	mg/l	< 4	--	IS:3025 (P-44) 1993
8	Total Dissolved Solids	mg/l	1068	2100	IS:3025 (P-16) 1984
9	Chlorides (as Cl)	mg/l	248	600	IS:3025 (P-32) 1988
10	Hardness (as CaCO ₃)	mg/l	490	--	IS:3025 (P-21) 1983
11	Calcium (as Ca)	mg/l	156	--	IS:3025 (P-40) 1991
12	Magnesium (as Mg)	mg/l	24	--	IS:3025 (P-46) 1994
13	Sodium (as Na)	mg/l	135.8	--	IS:3025 (P-45) 1993
14	Potassium (as K)	mg/l	3.2	--	IS:3025 (P-45) 1993
15	% Na (Max)	%	37.5	60	By Calculation
16	Sodium Absorption Ratio	---	2.67	26	By Calculation
17	Residual Sodium Carbonate	meq/l	-2.8	2.5	By Calculation
18	Electrical Conductivity	µmhos/cm	1497	2250	IS:3025 (P-14) 1984

Remarks:

Thanking you,


Analysed By




Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***


Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/C-KQ/02-24	End of Analysis : 07 March 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 09 March 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : KQ6
Date of Collection / Sampling : 27 February 2024	Nature of Sample: Compost
Date of Receipt : 28 February 2024	Sample Collected By: SEC Lab
Date of Analysis: 29 February 2024	Sample Quantity : 1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	27.91	%	< 35
2	pH (Saturated) @ 25 °C	6.52	--	6.5 – 8.5
3	Total Volatile Solids	62.61	%	60 – 65
4	Residual Ash	37.39	%	40 – 45
5	Nitrogen as N	1.57	%	1.5 – 2.0
6	Phosphorus as P ₂ O ₅	1.72	%	1.5 – 2.0
7	Potassium as K ₂ O	2.98	%	2.0 – 3.5
8	Organic Carbon	24.05	%	20 – 25
9	C/N	15.31	--	< 17
Leachate Water (Filtrate)				
10	pH @ 25 °C	7.91	--	6.5 – 8.5
11	C.O.D.	195	mg/l	< 250
12	B.O.D.	24	mg/l	< 30
13	Chlorides	194	mg/l	< 600
14	E. Conductivity	1420	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost

2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w

3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

Analysed By



Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-JV/01-24	End of Analysis : 05 February 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 06 February 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : JV1 & JV3
Date of Collection / Sampling : 29 January 2024	Nature of Sample: Water
Date of Receipt : 30 January 2024	Sample Collected By: SEC Lab
Date of Analysis: 31 January 2024	Sample Quantity : 1 lit each sample
Name of Sample : Digester Inlet & Digester Outlet	

Sr. No.	Test Parameter	Unit	Digester Inlet	Digester Outlet	Test Method
1	pH @ 25 °C	-	4.30	8.38	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	NA	7381	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	4800	3462	APHA 22 nd Edition-2012, 5560 C
4	Chemical Oxygen Demand	mg/l	1,14,667	38,126	IS:3025 (P-58) 2006
5	B.O.D.(3days at 27°C)	mg/l	52,729	5894	IS:3025 (P-44) 1993
6	Total Solids	mg/l	1,38,630	71,467	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	90,712	39,209	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	47,918	33,258	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	5165	6156	IS:3025 (P-32) 1988
10	Sulphates	mg/l	4072	4498	IS:3025 (P-24) 1986
11	Potassium	mg/l	13,890	12,310	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



B. Subbarao
 Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected, NA- Not Applicable.

***END of Test Report ***



SEC

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TEST REPORT

Report Ref. No. : SEC/W-JV/01-24	End of Analysis : 05 February 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 06 February 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : JV2
Date of Collection / Sampling : 29 January 2024	Nature of Sample: Water
Date of Receipt : 30 January 2024	Sample Collected By: SEC Lab
Date of Analysis: 31 January 2024	Sample Quantity : 1 lit
Name of Sample : MEE Spentwash	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH @ 25 °C	-	5.97	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	mg/l	1,47,280	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	mg/l	66,706	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,85,163	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	1,15,272	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	69,891	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	5549	IS:3025 (P-32) 1988
8	Sulphates	mg/l	4537	IS:3025 (P-24) 1986
9	Potassium	mg/l	15,860	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.



M. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

***END of Test Report ***



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TEST REPORT

Report Ref. No. : SEC/W-JV/01-24	End of Analysis : 05 February 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 06 February 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : JV4 & JV5
Date of Collection / Sampling : 29 January 2024	Nature of Sample: Water
Date of Receipt : 30 January 2024	Sample Collected By: SEC Lab
Date of Analysis: 31 January 2024	Sample Quantity : 1 lit each sample
Name of Sample : Distillery Process Condensate & Spentlees	

Sr. No.	Test Parameter	Process Condensate	Spentlees	Unit	Test Method
1	pH @ 25 °C	3.15	3.50	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	3040	344	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1396	151	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	237	106	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	15	ND	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	229	5	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	37	6	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By



Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. : SEC/W-JV/01-24	End of Analysis : 05 February 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 06 February 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : JV6 & JV7
Date of Collection / Sampling : 29 January 2024	Nature of Sample: Water
Date of Receipt : 30 January 2024	Sample Collected By: SEC Lab
Date of Analysis: 31 January 2024	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Untreated & Sugar ETP Treated	

Sr. No.	Test Parameter	Sugar ETP Untreated	Sugar ETP Treated	Unit	Standards for Treated Sample	Test Method
1	pH @ 25 °C	5.62	7.75	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	2864	107	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1295	43	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2170	1098	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	249	61	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	263	170	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	156	88	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	10	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By



B. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. : SEC/C-JV/01-24	End of Analysis : 05 February 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 06 February 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : JV9
Date of Collection / Sampling : 29 January 2024	Nature of Sample: Compost
Date of Receipt : 30 January 2024	Sample Collected By: SEC Lab
Date of Analysis: 31 January 2024	Sample Quantity : 1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	29.34	%	< 35
2	pH (Saturated) @ 25 °C	6.56	--	6.5 – 8.5
3	Total Volatile Solids	61.57	%	60 – 65
4	Residual Ash	38.43	%	40 – 45
5	Nitrogen as N	1.55	%	1.5 – 2.0
6	Phosphorus as P ₂ O ₅	1.69	%	1.5 – 2.0
7	Potassium as K ₂ O	2.88	%	2.0 – 3.5
8	Organic Carbon	23.72	%	20 – 25
9	C/N	15.3	--	< 17
Leachate Water (Filtrate)				
10	pH @ 25 °C	7.94	--	6.5 – 8.5
11	C.O.D.	189	mg/l	< 250
12	B.O.D.	23	mg/l	< 30
13	Chlorides	185	mg/l	< 600
14	E. Conductivity	1360	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost

2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w

3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.



B. Subbarao

Authorized Signatory

Technical Manager/ Quality Manager

***END of Test Report ***



SEC

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TEST REPORT

Report Ref. No. : SEC/C-KK/02-24	End of Analysis : 21 February 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 22 February 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : KK1
Date of Collection / Sampling : 16 February 2024	Nature of Sample: Compost
Date of Receipt : 17 February 2024	Sample Collected By: Party
Date of Analysis: 17 February 2024	Sample Quantity : 1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	26.79	%	< 35
2	pH (Saturated) @ 25 °C	6.58	--	6.5 – 8.5
3	Total Volatile Solids	62.34	%	60 – 65
4	Residual Ash	37.66	%	40 – 45
5	Nitrogen as N	1.58	%	1.5 – 2.0
6	Phosphorus as P ₂ O ₅	1.74	%	1.5 – 2.0
7	Potassium as K ₂ O	2.91	%	2.0 – 3.5
8	Organic Carbon	22.06	%	20 – 25
9	C/N	13.96	--	< 17

Thanking you,

Analysed By



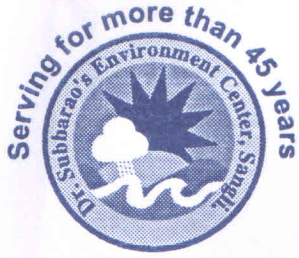
B. Subbarao
 Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***


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TEST REPORT

Report Ref. No. : SEC/W-HX/11-23	End of Analysis : 02 December 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 04 December 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : HX1 & HX2
Date of Collection / Sampling : 23 November 2023	Nature of Sample: Water
Date of Receipt : 24 November 2023	Sample Collected By: SEC Lab
Date of Analysis: 25 November 2023	Sample Quantity : 1 lit
Name of Sample : Digester Inlet & Digester Outlet	

Sr. No.	Test Parameter	Unit	Digester Inlet	Digester Outlet	Test Method
1	pH @ 25 °C	-	4.78	8.24	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	NA	7135	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	NA	3270	APHA 22 nd Edition-2012, 5560 C
4	Chemical Oxygen Demand	mg/l	1,21,509	39,765	IS:3025 (P-58) 2006
5	B.O.D.(3days at 27°C)	mg/l	54,152	6058	IS:3025 (P-44) 1993
6	Total Solids	mg/l	1,46,370	72,790	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	92,738	37,962	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	53,632	34,828	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	5206	6315	IS:3025 (P-32) 1988
10	Sulphates	mg/l	4189	4678	IS:3025 (P-24) 1986
11	Potassium	mg/l	14,260	12,700	IS:3025 (P-45) 1993

Remarks:
Thanking you,

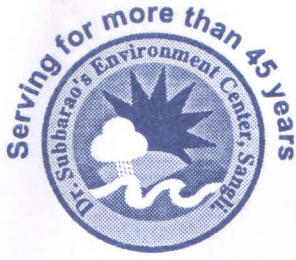
 Analysed By
 


A. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected, NA- Not Applicable.

***END of Test Report ***



SEC

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TEST REPORT

Report Ref. No. : SEC/W-HX/11-23	End of Analysis : 02 December 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 04 December 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : HX3
Date of Collection / Sampling : 23 November 2023	Nature of Sample: Water
Date of Receipt : 24 November 2023	Sample Collected By: SEC Lab
Date of Analysis: 25 November 2023	Sample Quantity : 1 lit
Name of Sample : MEE Spentwash	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH @ 25 °C	-	6.50	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	mg/l	1,53,940	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	mg/l	69,136	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,90,617	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	1,16,763	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	73,854	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	5730	IS:3025 (P-32) 1988
8	Sulphates	mg/l	4704	IS:3025 (P-24) 1986
9	Potassium	mg/l	17,910	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By

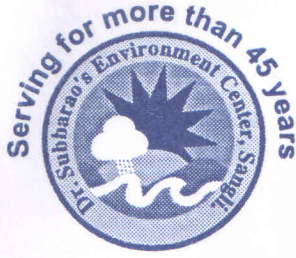


B. Silva
 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-HX/11-23	End of Analysis : 02 December 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 04 December 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : HX5 & HX6
Date of Collection / Sampling : 23 November 2023	Nature of Sample: Water
Date of Receipt : 24 November 2023	Sample Collected By: SEC Lab
Date of Analysis: 25 November 2023	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Untreated & Sugar ETP Treated	

Sr. No.	Test Parameter	Sugar ETP Untreated	Sugar ETP Treated	Unit	Standards for Treated Sample	Test Method
1	pH @ 25 °C	4.39	7.78	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	3472	161	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1569	58	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2831	1134	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	290	62	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	316	245	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	191	106	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	10	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By

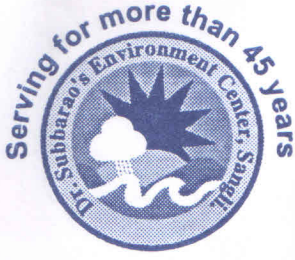


B. Sulland
 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. : SEC/W-HX/11-23	End of Analysis : 02 December 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 04 December 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : HX4
Date of Collection / Sampling : 23 November 2023	Nature of Sample: Water
Date of Receipt : 24 November 2023	Sample Collected By: SEC Lab
Date of Analysis: 25 November 2023	Sample Quantity : 1 lit.
Name of Sample : Distillery Condensate	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH @ 25 °C	7.93	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	2760	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1268	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	170	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	15	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	236	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	28	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By



B. Subbarao
Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***


Dr. SUBBARAO'S ENVIRONMENT CENTER

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TEST REPORT

Report Ref. No. :SEC/W-FB/02-23	End of Analysis :25 February 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :27 February 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. :FB1
Date of Collection / Sampling :17 February 2023	Nature of Sample: Water
Date of Receipt :18 February 2023	Sample Collected By: SEC Lab
Date of Analysis: 20 February 2023	Sample Quantity :1 lit
Name of Sample : Sugar ETP Inlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH @ 25 °C	4.67	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	3570	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1493	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2940	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	305	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	271	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	185	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	10	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:
Thanking you,

Analysed By


B. Subbarao

Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***

**Dr. SUBBARAO'S ENVIRONMENT CENTER**

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TEST REPORT

Report Ref. No. :SEC/W-FB/02-23	End of Analysis :25 February 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :27 February 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. :FB2
Date of Collection / Sampling :17 February 2023	Nature of Sample: Water
Date of Receipt :18 February 2023	Sample Collected By: SEC Lab
Date of Analysis: 20 February 2023	Sample Quantity :1 lit
Name of Sample : Sugar ETP Outlet	

Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.64	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	141	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	55	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	1270	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	58	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	246	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	105	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.



B. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

END of Test Report

**Dr. SUBBARAO'S ENVIRONMENT CENTER**

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TEST REPORT

Report Ref. No. :SEC/C-FB/02-23	End of Analysis :25 February 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :27 February 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. :FB3
Date of Collection / Sampling :17 February 2023	Nature of Sample: Compost
Date of Receipt :18 February 2023	Sample Collected By: SEC Lab
Date of Analysis: 20 February 2023	Sample Quantity :1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	30.84	%	< 35
2	pH (Saturated) @ 25 °C	6.52	--	6.5 – 8.5
3	Total Volatile Solids	58.93	%	60 – 65
4	Residual Ash	41.07	%	40 – 45
5	Nitrogen as N	1.58	%	1.5 – 2.0
6	Phosphorus as P ₂ O ₅	1.92	%	1.5 – 2.0
7	Potassium as K ₂ O	3.35	%	2.0 – 3.5
8	Organic Carbon	23.1	%	20 – 25
9	C/N	14.62	--	< 17
Leachate Water (Filtrate)				
10	pH @ 25 °C	7.59	--	6.5 – 8.5
11	C.O.D.	170	mg/l	< 250
12	B.O.D.	21	mg/l	< 30
13	Chlorides	168	mg/l	< 600
14	E. Conductivity	1290	µmhos/cm	< 2100

- Remarks:** 1) Values expressed on dry weight basis of compost
 2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w
 3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

[Signature]
 Analysed By



[Signature]
 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

- The result pertains only for the sample tested.
- The test result shall not be reproduced except in full, without written approval of the laboratory.
- Retention period for the remnant shall be 30 days.
- ND- Not Detected.

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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 QCI - NABET Accredited EIA Consultant Organization - Certificate No.

NABET / EIA / 2023 / SA 0174 valid upto Dec 12, 2023,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. :SEC/W-FB/02-23	End of Analysis :25 February 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :27 February 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. :FB1
Date of Collection / Sampling :17 February 2023	Nature of Sample: Water
Date of Receipt :18 February 2023	Sample Collected By: SEC Lab
Date of Analysis: 20 February 2023	Sample Quantity :1 lit
Name of Sample : Sugar ETP Inlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH @ 25 °C	4.67	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	3570	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1493	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2940	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	305	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	271	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	185	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	10	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By



B. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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NABET / EIA / 2023 / SA 0174 valid upto Dec 12, 2023,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. :SEC/W-FB/02-23	End of Analysis :25 February 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :27 February 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. :FB2
Date of Collection / Sampling :17 February 2023	Nature of Sample: Water
Date of Receipt :18 February 2023	Sample Collected By: SEC Lab
Date of Analysis: 20 February 2023	Sample Quantity :1 lit
Name of Sample : Sugar ETP Outlet	

Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.64	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	141	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	55	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	1270	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	58	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	246	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	105	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By



B. Subbarao

Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***


Dr. SUBBARAO'S ENVIRONMENT CENTER

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 NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. :SEC/C-FB/02-23	End of Analysis :25 February 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :27 February 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. :FB3
Date of Collection / Sampling :17 February 2023	Nature of Sample: Compost
Date of Receipt :18 February 2023	Sample Collected By: SEC Lab
Date of Analysis: 20 February 2023	Sample Quantity :1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	30.84	%	< 35
2	pH (Saturated) @ 25 °C	6.52	--	6.5 – 8.5
3	Total Volatile Solids	58.93	%	60 – 65
4	Residual Ash	41.07	%	40 – 45
5	Nitrogen as N	1.58	%	1.5 – 2.0
6	Phosphorus as P2O5	1.92	%	1.5 – 2.0
7	Potassium as K2O	3.35	%	2.0 – 3.5
8	Organic Carbon	23.1	%	20 – 25
9	C/N	14.62	--	< 17
Leachate Water (Filtrate)				
10	pH @ 25 °C	7.59	--	6.5 – 8.5
11	C.O.D.	170	mg/l	< 250
12	B.O.D.	21	mg/l	< 30
13	Chlorides	168	mg/l	< 600
14	E. Conductivity	1290	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost
 2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w
 3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

[Signature]
 Analysed By



[Signature]
 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***

**Dr. SUBBARAO'S ENVIRONMENT CENTER**

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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-EI/01-23	End of Analysis : 16 January 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :17 January 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : EI1
Date of Collection / Sampling : 06 January 2023	Nature of Sample: Water
Date of Receipt : 07 January 2023	Sample Collected By: SEC Lab
Date of Analysis: 09 January 2023	Sample Quantity : 1 lit
Name of Sample : Digester Inlet	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH @ 25 °C	-	3.96	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	mg/l	1,37,926	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	mg/l	59,032	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,52,940	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	93,172	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	59,768	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	5470	IS:3025 (P-32) 1988
8	Sulphates	mg/l	4389	IS:3025 (P-24) 1986
9	Potassium	mg/l	13,910	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



B. Sullane
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***

Dr. SUBBARAO'S ENVIRONMENT CENTER

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The Validity is extended to: one year upto 09-08-2022

**TEST REPORT**

Report Ref. No. : SEC/W-EI/01-23	End of Analysis : 16 January 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :17 January 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : EI2
Date of Collection / Sampling : 06 January 2023	Nature of Sample: Water
Date of Receipt : 07 January 2023	Sample Collected By: SEC Lab
Date of Analysis: 09 January 2023	Sample Quantity : 1 lit
Name of Sample : Digester Outlet	

Sr. No.	Test Parameter	Unit	Result	Standards	Test Method
1	pH @ 25 °C	-	8.19	---	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	7095	>6000	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	3128	< 3000	APHA 22 nd Edition-2012, 5560 C
4	Chemical Oxygen Demand	mg/l	41,320	35000-50000	IS:3025 (P-58) 2006
5	B.O.D.(3days at27°C)	mg/l	6192	5000-7000	IS:3025 (P-44) 1993
6	Total Solids	mg/l	75,640	60000-80000	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	43,435	35000-45000	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	36,205	25000-35000	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	6413	6000 - 8000	IS:3025 (P-32) 1988
10	Sulphates	mg/l	4872	4000 - 6000	IS:3025 (P-24) 1986
11	Potassium	mg/l	13,400	11000-15000	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



B. Sulekha
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***


Dr. SUBBARAO'S ENVIRONMENT CENTER

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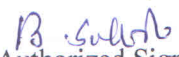
TEST REPORT

Report Ref. No. : SEC/W-EI/01-23	End of Analysis : 16 January 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :17 January 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : EI3
Date of Collection / Sampling : 06 January 2023	Nature of Sample: Water
Date of Receipt : 07 January 2023	Sample Collected By: SEC Lab
Date of Analysis: 09 January 2023	Sample Quantity : 1 lit
Name of Sample : MEE Raw Spentwash	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH @ 25 °C	-	4.63	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	mg/l	1,56,800	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	mg/l	67,568	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,88,347	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	1,15,769	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	72,578	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	5697	IS:3025 (P-32) 1988
8	Sulphates	mg/l	4503	IS:3025 (P-24) 1986
9	Potassium	mg/l	16,750	IS:3025 (P-45) 1993

Remarks:
Thanking you,

 Analysed By
 


 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***

**Dr. SUBBARAO'S ENVIRONMENT CENTER**

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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-EI/01-23	End of Analysis : 16 January 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 17 January 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : EI4
Date of Collection / Sampling : 06 January 2023	Nature of Sample: Water
Date of Receipt : 07 January 2023	Sample Collected By: SEC Lab
Date of Analysis: 09 January 2023	Sample Quantity : 1 lit
Name of Sample : Spentlees	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH @ 25 °C	2.80	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	193	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	81	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	85	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	ND	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	4	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	21	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.



B. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

***END of Test Report ***


Dr. SUBBARAO'S ENVIRONMENT CENTER

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The Validity is extended for one year upto 09-08-2022


TEST REPORT

Report Ref. No. : SEC/W-EI/01-23	End of Analysis : 16 January 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 17 January 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : EI5
Date of Collection / Sampling : 06 January 2023	Nature of Sample: Water
Date of Receipt : 07 January 2023	Sample Collected By: SEC Lab
Date of Analysis: 09 January 2023	Sample Quantity : 1 lit
Name of Sample : Distillery Condensate	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH @ 25 °C	2.84	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	3270	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1387	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	145	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	20	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	250	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	23	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:
Thanking you,

 Analysed By 



 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***


Dr. SUBBARAO'S ENVIRONMENT CENTER

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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-EI/01-23	End of Analysis : 16 January 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :17 January 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : E16
Date of Collection / Sampling : 06 January 2023	Nature of Sample: Water
Date of Receipt : 07 January 2023	Sample Collected By: SEC Lab
Date of Analysis: 09 January 2023	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Inlet	

Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH @ 25 °C	4.93	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	3290	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1405	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2682	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	273	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	244	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	174	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	10	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected..



B. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

***END of Test Report ***

**Dr. SUBBARAO'S ENVIRONMENT CENTER**

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The Validity is extended for one year upto 09-08-2022


TEST REPORT

Report Ref. No. : SEC/W-EI/01-23	End of Analysis : 16 January 2023
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date :17 January 2023
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : EI7
Date of Collection / Sampling : 06 January 2023	Nature of Sample: Water
Date of Receipt : 07 January 2023	Sample Collected By: SEC Lab
Date of Analysis: 09 January 2023	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Outlet	

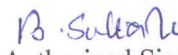
Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.71	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	136	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	53	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	1129	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	56	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	231	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	96	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By 




 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

"Arundhati", Opp. Sahayognagar, M.S.E.B. Road, Vishrambag, Sangli - 416 415.
 Phone : Sangli - 0233 - 2301857, (M) 9372109522, 9890992118, 9890454493,
 E-mail : bssubbarao@yahoo.com / bssharat@yahoo.com / bsnagiyoti@yahoo.com
 QCI - NABET Accredited EIA Consultant Organization - Certificate No.
 NABET / EIA / 2023 / SA 0174 valid upto Dec 12, 2023,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. : SEC/W-IW/12-23	End of Analysis : 05 January 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 07 January 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : IW1 & IW2
Date of Collection / Sampling : 25 December 2023	Nature of Sample: Water
Date of Receipt : 26 December 2023	Sample Collected By: SEC Lab
Date of Analysis: 27 December 2023	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Untreated & Sugar ETP Treated	

Sr. No.	Test Parameter	Sugar ETP Untreated	Sugar ETP Treated	Unit	Standards for Treated Sample	Test Method
1	pH @ 25 °C	4.18	7.58	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	3169	132	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	1485	52	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2369	1037	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	388	55	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	239	210	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	176	93	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	10	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.



B. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 27-01-2025

TEST REPORT

Report Ref. No. : SEC/C-IW/12-23	End of Analysis : 05 January 2024
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 07 January 2024
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : IW3
Date of Collection / Sampling : 25 December 2023	Nature of Sample: Compost
Date of Receipt : 26 December 2023	Sample Collected By: SEC Lab
Date of Analysis: 27 December 2023	Sample Quantity : 1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	32.98	%	< 35
2	pH (Saturated) @ 25 °C	6.58	--	6.5 – 8.5
3	Total Volatile Solids	61.26	%	60 – 65
4	Residual Ash	38.74	%	40 – 45
5	Nitrogen as N	1.57	%	1.5 – 2.0
6	Phosphorus as P ₂ O ₅	1.72	%	1.5 – 2.0
7	Potassium as K ₂ O	2.91	%	2.0 – 3.5
8	Organic Carbon	23.5	%	20 – 25
9	C/N	14.96	--	< 17
Leachate Water (Filtrate)				
10	pH @ 25 °C	7.98	--	6.5 – 8.5
11	C.O.D.	172	mg/l	< 250
12	B.O.D.	21	mg/l	< 30
13	Chlorides	164	mg/l	< 600
14	E. Conductivity	1290	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost

2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w

3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

Analysed By



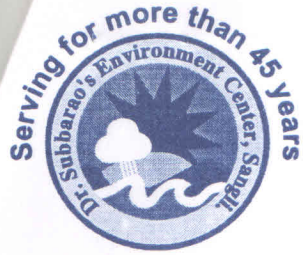
Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Retention period for the remnant shall be 30 days.
4. ND- Not Detected.

***END of Test Report ***



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NABET / EIA / 1922 / RA 0159 valid upto June 12, 2022,

NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 09-08-2021

The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD1
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Raw Spentwash	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	2.83	IS:3025 (P-11) 1983
2	C.O.D.	mg/l	70,332	IS:3025 (P-58) 2006
3	B.O.D.	mg/l	30,294	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,02,137	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	59,821	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	42,316	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	6185	IS:3025 (P-32) 1988
8	Sulphates	mg/l	5278	IS:3025 (P-24) 1986
9	Potassium	mg/l	13,700	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



B. Subbarao

Authorized Signatory

Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.
6. * -- Parameter not under NABL scope

***END of Test Report ***



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TEST REPORT

Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD2
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Concentrated Evaporation Raw Spentwash	


Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	7.12	IS:3025 (P-11) 1983
2	C.O.D.	mg/l	70,485	IS:3025 (P-58) 2006
3	B.O.D.	mg/l	32,572	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,19,413	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	56,582	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	62,831	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	9769	IS:3025 (P-32) 1988
8	Sulphates	mg/l	7385	IS:3025 (P-24) 1986
9	Potassium	mg/l	19,200	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By 




Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.
6. * -- Parameter not under NABL scope

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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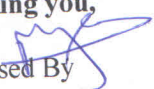
TEST REPORT

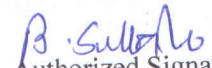
Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD3
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Digester Outlet	

Sr. No.	Test Parameter	Unit	Result	Standards	Test Method
1	pH	-	8.29	---	IS:3025 (P-11) 1983
2	Alkalinity	mg/l	7268	>6000	IS:3025 (P-23) 1986
3	Volatile Acids	mg/l	3250	< 3000	APHA 22 nd Edition-2012, 5560 C
4	C.O. D.	mg/l	41,847	35000-50000	IS:3025 (P-58) 2006
5	B.O. D.	mg/l	5425	5000-7000	IS:3025 (P-44) 1993
6	Total Solids	mg/l	68,729	60000-80000	APHA 22 nd Edition-2012, 2540 B
7	Total Volatile Solids	mg/l	39,132	35000-45000	APHA 22 nd Edition-2012, 2540-E,G
8	Total Inorganic Solids	mg/l	29,597	25000-35000	APHA 22 nd Edition-2012, 2540 C
9	Chlorides	mg/l	6452	6000 - 8000	IS:3025 (P-32) 1988
10	Sulphates	mg/l	4968	4000 - 6000	IS:3025 (P-24) 1986
11	K	mg/l	13,500	11000-15000	IS:3025 (P-45) 1993

Remarks:

Thanking you,

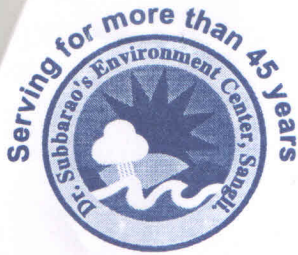
Analysed By 


 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

END of Test Report



Dr. SUBBARAO'S ENVIRONMENT CENTER

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 The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD6
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Process Condensate	


Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	9.78	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	103	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	21	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	180	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	5	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	16	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	10	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,


 Analysed By

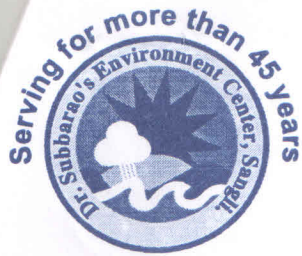



 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



Dr. SUBBARAO'S ENVIRONMENT CENTER

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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD4
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Inlet	

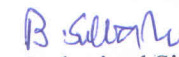
Sr. No.	Test Parameter	Result	Unit	Test Method
1	pH	4.39	-	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	2360	mg/l	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	980	mg/l	IS:3025 (P-44) 1993
4	Total Dissolved Solids	2610	mg/l	IS:3025(P-16)1984
5	Total Suspended Solids	405	mg/l	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	278	mg/l	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	152	mg/l	IS:3025 (P-24) 1986
8	Oil & Grease	15	mg/l	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,


Analysed By




Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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The Validity is extended for one year upto 09-08-2022

TEST REPORT

Report Ref. No. : SEC/W-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD5
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Water
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 lit
Name of Sample : Sugar ETP Outlet	

Sr. No.	Test Parameter	Result	Unit	Standards	Test Method
1	pH	7.40	-	5.5-8.5	IS:3025 (P-11) 1983
2	Chemical Oxygen Demand	122	mg/l	250	IS:3025 (P-58) 2006
3	B.O.D. (3 days at 27°C)	42	mg/l	100	IS:3025 (P-44) 1993
4	Total Dissolved Solids	710	mg/l	2100	IS:3025(P-16)1984
5	Total Suspended Solids	56	mg/l	100	IS:3025 (P-17) 1984
6	Chloride as Cl ⁻	110	mg/l	600	IS:3025 (P-32) 1988
7	Sulphate as SO ₄	92	mg/l	1000	IS:3025 (P-24) 1986
8	Oil & Grease	ND	mg/l	10	IS:3025 (P-39) 1991 (RA 2003)

Remarks:

Thanking you,

Analysed By



B. Subbarao
Authorized Signatory
Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

***END of Test Report ***



SEC

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TEST REPORT

Report Ref. No. : SEC/C-BD/04-22	End of Analysis : 16 April 2022
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 18 April 2022
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : BD7
Date of Collection / Sampling : 07 April 2022	Nature of Sample: Compost
Date of Receipt : 07 April 2022	Sample Collected By: SEC Lab
Date of Analysis: 08 April 2022	Sample Quantity : 1 kg
Name of Sample : Ready Compost	

Sr. No.	Test Parameter	Result	Unit	Standards
1	Moisture	30.41	%	< 35
2	pH (Saturated)	6.53	--	6.5 - 8.5
3	Total Volatile Solids	61.37	%	60 - 65
4	Residual Ash	38.63	%	40 - 45
5	Nitrogen as N	1.69	%	>2.0
6	Phosphorus as P2O5	1.52	%	>0.50
7	Potassium as K2O	3.21	%	>3.0
8	Organic Carbon	27.5	%	20 - 30
9	C/N	16.27	--	< 17
Leachate Water (Filtrate)				
10	pH	7.68	--	6.5 - 8.5
11	C.O.D.	211	mg/l	< 250
12	B.O.D.	23	mg/l	< 30
13	Chlorides	247	mg/l	< 600
14	E. Conductivity	1360	µmhos/cm	< 2100

Remarks: 1) Values expressed on dry weight basis of compost

2) Saturated water is obtained by washing of 1gm oven dried sample with 20ml d/w

3) Leachate water is obtained by washing 1gm oven dried sample with 100ml d/w

Thanking you,

Analysed By

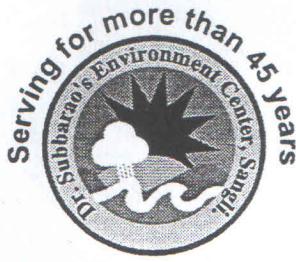
B. Subbarao
 Authorized Signatory
 Technical Manager/ Quality Manager

Note:

- The result pertains only for the sample tested.
- The test result shall not be reproduced except in full, without written approval of the laboratory.
- Sample is not drawn by Dr. Subbarao's Environment Centre, Sangli.
- Retention period for the remnant shall be 30 days.
- ND- Not Detected.

***END of Test Report ***





SEC

Dr. SUBBARAO'S ENVIRONMENT CENTER

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 NABL Quality Assurance Laboratory Accreditation Certificate No. TC - 6121 valid upto 09-08-2019

TEST REPORT

Report Ref. No. : SEC/W-VD/01-21	End of Analysis : 27 January 2021
Name of Industry/Customer: Padmabhushan Krantiveer Dr. Naganathanna Naikwadi Hutatma Kisan Ahir SSK Ltd.	Report Date : 29 January 2021
Address: Walva-416313, (Dist) Sangli.	Lab ID/Sample Ref. No. : VD2
Date of Collection / Sampling : 16 January 2021	Nature of Sample: Water
Date of Receipt : 16 January 2021	Sample Collected By: SEC Lab
Date of Analysis: 17 January 2021	Sample Quantity : 1 lit
Name of Sample : Concentrated Raw Spentwash	

Sr. No.	Test Parameter	Unit	Result	Test Method
1	pH	-	3.15	IS:3025 (P-11) 1983
2	C.O.D	mg/l	1,38,211	IS:3025 (P-58) 2006
3	B.O.D	mg/l	56,320	IS:3025 (P-44) 1993
4	Total Solids	mg/l	1,70,540	APHA 22 nd Edition-2012, 2540 B
5	Total Volatile Solids	mg/l	91,210	APHA 22 nd Edition-2012, 2540-E,G
6	Total Inorganic Solids	mg/l	79,330	APHA 22 nd Edition-2012, 2540 C
7	Chlorides	mg/l	16,726	IS:3025 (P-32) 1988
8	Sulphates	mg/l	11,789	IS:3025 (P-24) 1986
9	K	mg/l	24,400	IS:3025 (P-45) 1993

Remarks:

Thanking you,

Analysed By



Authorized Signatory
 Technical Manager/ Quality Manager

Note:

1. The result pertains only for the sample tested.
2. The test result shall not be reproduced except in full, without written approval of the laboratory.
3. Sample is not drawn by Dr.Subbarao's Environment Centre, Sangli.
4. Retention period for the remnant shall be 30 days.
5. ND- Not Detected.

END of Test Report

