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**BEFORE THE NATIONAL GREEN TRIBUNAL,
CENTRAL ZONAL BENCH, BHOPAL
MA No. 03/2022
IN
ORIGINAL APPLICATION NO. 80/2021 (CZ)**

Captain Satyendra Kumar Singh

Applicant

Versus

State of Raj. & Ors.

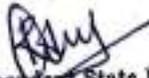
Respondents

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JAIPUR (RAJ.)
24 MAR 2023


Counsel for the Respondent State Board
Rohit Sharma, Advocate

BEFORE THE NATIONAL GREEN TRIBUNAL,
CENTRAL ZONAL BENCH, BHOPAL
M.A. No. 03/2022

IN

ORIGINAL APPLICATION NO. 80/2021 (CZ)

Captain Satyendra Kumar Singh

Applicant

Versus

State of Raj. & Ors.

Respondents

ACTION TAKEN REPORT IN COMPLIANCE OF HON'BLE
TRIBUNAL ORDER DATED 15.12.2022 ON BEHALF OF THE
RAJASTHAN STATE POLLUTION CONTROL BOARD.

1. That the original application no. 80/2021 was disposed by the Hon'ble Tribunal by order dated 25.04.2022 with the directions as under:-

"8. Accordingly, JDA as a responsible public body, must take emergency measures to ensure remedial action in a time bound manner. Till compliance, the compensation assessed has to be adequate to cover the cost of restitution and also deterrent and not on any formula which does not take into account these essential components. Let the joint Committee work out and recover such compensation within one month. The same be credited to a separate account to be used for restoration, by preparing an action plan. Pending further action, we direct

to deposit a sum of Rs. 2 Crores towards interim

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compensation with the District Magistrate, Jaipur. The same be used for restoration by preparing an action plan by CPCB and State PCB in coordination with the JDA, to be executed through an appropriate agency which may be determined by CPCB, State PCB and District Magistrate, in coordination with the JDA. Pending restoration of the work, immediate interim measures may be taken to ensure that no untreated sewage or waste water is discharged in a water body or in open in violation of law. The restoration plan may also include measures to utilize the treated water for non-potable purposes, including for industrial purposes, gardening or railway washing. The immediate restoration measures may include preventing untreated sewage being let off near the school, as found earlier. Action plan should include maintenance of conveyance system for utilisation of treated water (compliant with norms), defining command area and users for irrigating the fields with well laid out protocols to prevent damage to the ground water, maintenance of sludge and biogas recovery, preventing formation of THMs (backed up analytical data) and working out sewage utilisation plan for industrial and other bulk consumers in coordination with SPCB, CPCB, RIICO, Industries Department, and others. This plan should also be made applicable to other operating STPs in Jaipur and other parts in the State.

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The Committee may file its report within four months with the Registrar General of this Tribunal by e-mail preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF. If any further direction is found

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24 MAR 2023

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necessary, the R.G. may place the matter before the Bench.
Subject to above, the application is disposed of.

A copy of this order be forwarded to CPCB, State PCB,
District Magistrate, Jaipur and JDA by e-mail for compliance."

2. That in compliance of the directions passed by the Hon'ble Tribunal, the joint committee submitted the compliance report before this Hon'ble Tribunal through email dated 22.09.2022. The copy of the compliance report submitted by joint committee is annexed herewith and marked as Annexure-R/1.
3. That the JDA filed an Civil Appeal Diary no. 25365/2022 wherein the Hon'ble Supreme Court by order dated 26.09.2022 has directed as under:-

"Learned counsel for the appellant submits that in terms of the formula evolved by the Committee regarding environmental compensation of which a reference has been made at page 8 of the impugned order, the Committee arrived at a conclusion that there was a non-compliance for the period of 135 days still taking recourse to the report, a random view has been expressed by the Tribunal directing the environmental compensation of Rs.2 crores.

Counsel further submits that even the liability of environmental compensation on the appellant is to be examined by this Court.

Issue notice, returnable on 14.11.2022.

In the meanwhile, operation and effect of order of the Tribunal dated 25.04.2022 shall remain stayed provided the appellant deposits environmental compensation of

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Rs.33,75,000/- as assessed by the Committee within a period of four weeks."

The copy of the Hon'ble Supreme Court order dated 26.09.2022 is annexed herewith and marked as **Annexure-R/2**.

4. That JDA vide letter dated 11.10.2022 informed RSPCB that in compliance of the directions passed by the Hon'ble Supreme Court, JDA has deposited Rs. 33,75,000/- with the District Collector, Jaipur. The copy of the letter dated 11.10.2022 is annexed herewith and marked as **Annexure-R/3**.
5. That the Hon'ble Supreme Court by order dated 10.02.2023 has observed as under:-

"We have heard learned counsel for the parties and consider appropriate to modify our interim order dated 26.09.2022. Since the environmental compensation of Rs. 33,75,000/- as indicated by the Tribunal referred to on page 8, paragraph no. 4.0 has been deposited by the appellant and the Committee has furnished its report before the Tribunal, let the Tribunal may proceed with the matter on the basis of Committee's report including recommendations and decide in accordance with law and so far as the compensation which has been deposited will abide by further orders passed by the Tribunal.

The interim order passed by this Court on 26.09.2022 is modified accordingly.

Let the Tribunal may proceed with the matter.

Let it after eight weeks."

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The copy of the Hon'ble Supreme Court order dated 10.02.2023 is annexed herewith and marked as **Annexure-R/4**.

6. That in compliance of the directions passed by the Hon'ble Tribunal, the action taken are as under:-

A) As informed by the JDA, Administrative and Financial Sanction of Rs. 106.8 Crore has been accorded for upgradation of the STP including 10 years O&M.

B) Kachcha drain/channel has been prepared by the JDA to channelize the treated sewage water for utilizing the same for irrigation purposes by the nearby farmers. The Bandi is a non-perennial river.

C) The State Board has collected samples of treated waste water on 09.01.2023 and 15.02.2023. As per the waste water analysis reports, the results do not conform the prescribed limits. The copy of the sample analysis reports is annexed herewith and marked as **Annexure-R/5**. Further, sample of treated waste water was collected from outlet of the STP on date 25.02.2023 and tested for FC. According to the result Faecal Coliform (MPN Technique)/100 ml is 280 (Copy of the A/R enclosed) against the prescribed limit of 230. The copy of the sample analysis reports is annexed herewith and marked as **Annexure-R/6**. Therefore, the State Board has issued show cause notice dated 17.03.2023. The copy of the show cause notice dated 17.03.2023 is annexed herewith and marked as **Annexure-R/7**.

D) In order to channelize the treated sewage, Water Resource Department has sanctioned Rs. 631 Lacs for construction of earthen channel in masonry and work has been started on site which is scheduled to complete by June, 2024. Bed of the

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channel shall be earthen/Kachcha which will increase water table of the surrounding areas and irrigation may be possible in approx. 1000 Ha. Area. Length of the channel approx. 1650 meters and width approx. 6 meters.

E) A meeting convened under the chairmanship of Director Engineering-III, JDA on 09.03.2023. The copy of the minutes of meeting dated 09.03.2023 is annexed herewith and marked as **Annexure-R/8.**

F) The present status of compliance by the State Board with respect to restitution plan provided by the joint committee is annexed herewith and marked as **Annexure-R/9.**

G) The State Board vide letters dated 17.03.2023 informed the Principal Secretary, Urban Development and Housing, Govt. of Rajasthan and Secretary, Local Self Government, Government of Rajasthan, for preparation of sewage utilization plan for industrial and other bulk consumers and to ensure compliance of Hon'ble Tribunal order dated 25.04.2022. The copy of letters dated 17.03.2023 are annexed herewith and marked as **Annexure-R/10 (Coll.).**

In view of above, it is submitted that the action taken report may kindly be taken on record.

Regional Officer
Rajasthan State Pollution Control Board,
Jaipur (North)

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JAIPUR (RAJ.)

24 MAR 2023

**Compliance Report and Restitution Plan in Hon'ble NGT OA No. 80/2021 (CZ)
Captain Satyender Kumar Singh V/s State of Rajasthan &Ors. disposed on
25/04/2022**

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COMPLIANCE REPORT

**In compliance of Hon'ble National Green Tribunal order dated
25.4.2022 in Original Application No. 80/2021**

In the matter of

Capt. Satyendra Kumar Singh

V/s

State of Rajasthan & Ors.

(September,2022)

**Compliance Report w.r.t. Hon'ble NGT Order Dated
25.04.2022 in the matter of Capt. Satyendra Kumar Singh
V/s State of Rajasthan & Ors. OA No. 80/2021**

Hon'ble National Green Tribunal (NGT) vide its order dated 25.4.2022 in O.A. 80 of 2021 directed under Para 8as:

"Accordingly, JDA as a responsible public body, must take emergency measures to ensure remedial action in a time bound manner. Till compliance, the compensation assessed has to be adequate to cover the cost of restitution and also deterrent and not on any formula which does not take into account these essential components. Let the joint Committee work out and recover such compensation within one month. The same be credited to a separate account to be used for restoration, by preparing an action plan. Pending further action, we direct JDA to deposit a sum of Rs. 2 Crores towards interim compensation with the District Magistrate, Jaipur. The same be used for restoration by preparing an action plan by CPCB and State PCB in coordination with the JDA, to be executed through an appropriate agency which may be determined by CPCB, State PCB and District Magistrate, in coordination with the JDA. Pending restoration of the work, immediate interim measures may be taken to ensure that no untreated sewage or waste water is discharged in a water body or in open in violation of law. The restoration plan may also include measures to utilize the treated water for non-potable purposes, including for industrial purposes, gardening or railway washing. The immediate restoration measures may include preventing untreated sewage being let off near the school, as found earlier. Action plan should include maintenance of conveyance system for utilisation of treated water (compliant with norms), defining command area and users for irrigating the fields with well laid out protocols to prevent damage to

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the ground water, maintenance of sludge and biogas recovery, preventing formation of THMs (backed up analytical data) and working out sewage utilisation plan for industrial and other bulk consumers in coordination with SPCB, CPCB, RIICO, Industries Department, and others. This plan should also be made applicable to other operating STPs in Jaipur and other parts in the State". Copy of the order enclosed as **Annexure-1.**

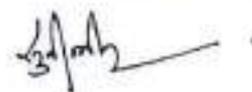
Compliance of the directions given under Para 8 is as below:

1. Pending further action, we direct JDA to deposit a sum of Rs. 2 Crores towards interim compensation with the District Magistrate, Jaipur.

In reference to the directions of Hon'ble NGT for deposition of Rs 2.0 Crore by the Jaipur Development Authority (JDA) to the District Collector's Account as interim compensation, the JDA has not yet deposited the amount despite the communication made on various dates viz. 27.06.2022, 14.07.2022 and 12.08.2022 by Rajasthan State Pollution Control Board (RSPCB) and directions were given on 14.9.2022 by the District Collector during the meeting.

Copy of the letters & Minute of Meeting are enclosed as **Annexure-2.**

The committee of Central Pollution Control Board (CPCB), Rajasthan State Pollution Control Board (RSPCB) in co-ordination with Jaipur Development Authority (JDA) has prepared the restoration plan after detailed discussion and field visit. The tentative estimated amount for restoring the environment covering majorly all aspects is **Rs. 144.5 Lacs** and same was considered as the Environmental

Compensation. Further the cost of restoration may be revised based on the recommendations of the committee to achieve the desired outcome as per the restoration plan.

2. Restitution/restoration plan for 30MLD STP, Kalwar (Gajadharpura), Jaipur

The committee comprising of Central Pollution Control Board (CPCB) & Rajasthan State Pollution Control Board (RSPCB) has finalized the restitution/restoration plan after having field survey and detailed discussion with concern officer of Jaipur Development Authority (JDA) and expert institute i.e. Malviya National Institute of Technology (MNIT).

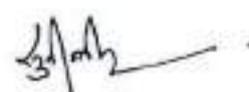
Minutes of meetings are as follows:

i. Minutes of Meeting dated 19.5.2022

A virtual meeting was organized on 19.5.2022 with the representative of CPCB, RSPCB & Jaipur Development Authority. Dr. A B Gupta, Professor, Civil Engineering Department, MNIT, Jaipur was invited as an expert for technical guidance on the preparation of the restitution plan in compliance of the NGT Order dated 25.4.2022 in NGT OA 80 of 2021 (CZ).

Sh Vijay Sharma, Regional Officer, RSPCB welcomed all the invitees and presented the deficiency reported by the committee in their report on STP, Gajadharpura, Jaipur along with the NGT order. The detailed discussion was held on the following points:

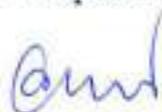
- i. Two Bypasses without being permitted in Consent to Operate (CTO)
- ii. Disposal of effluents into the river

- iii. Ferti-irrigation plan
- iv. Improper management of sludge
- v. Poor recovery of biogas
- vi. Damaged conveyance system for carriage of effluents
- vii. Formation of organo-halogens like tri halo methane (THMs) which are carcinogenic.
- viii. Utilization of effluent for industrial purposes
- ix. Cost of restitution to cover essential components viz. utilization of treated effluent, maintenance of conveyance system, command area and use for irrigation, biogas recovery, sludge management, formation of THMs & others

Official of JDA Sh Shiv Ratan Pareek, Executive Engineer informed that there are few incidences when industrial discharge was observed in open drains of the sewer. Dr. A B Gupta suggested first assessing in detail the polluting sources other than the STP discharge (non-complying to prescribed standards) so that appropriate pollution control measures may be adopted. Performance parameters should also be compared with the expected ranges available in the literature, e.g., energy consumption per unit BOD removed; the color of raw sewage (any hue other than brown or black can be suspected to be contaminated with dye pollution); COD/BOD ratio; Total and filtered BOD and COD, etc. In case some suspected ingress of dye-stuff waste is indicated, it has to be segregated; otherwise, any up-gradation work would have low effectivity.

It was further suggested that a unit-wise performance study of the STP should be carried out to identify & upgrade only low performing ones. The use of Microbial Biofilm Bed Reactor (MBBR) media in the first stage of the aeration tank may be tried as an experiment, which can improve its performance slightly and in case the




value of treated sewage is indeed 24 mg/l, as informed during the meeting, perhaps the new standards of 10 mg/l may be achieved after the disinfection step.

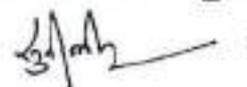
The performance of the Primary Settling Tank (PST) may be assessed for sludge production as it contains the major energy available through the digestion process.

Digesters should be assessed for biogas production and leakages, if any, should be plugged. Biogas production should be checked with the available literature for the VSS available in the sludge and arrangements for biogas compression & refilling may be explored in place of flaring the useful by-product. Aerobic digester to produce good quality manure may also be thought of as a good alternative to the existing anaerobic digester if it is difficult to maintain.

Further, it was suggested that the chlorination dosing needs to be optimized with the treatment level to minimize any chance of THMs generation. A hybrid system involving chlorine followed by UV can be designed to minimize the production of THMs. The chlorination step would also result in the reduction of BOD to some extent.

It was informed by a JDA representative that the presently available ASP based treatment technology doesn't provide treatment upto the level of BOD-10 mg/l, for which an upgradation of STP to SBR based technology, is under process.

Sh Sunil Kumar Meena, Sc-D, CPCB emphasized on the final required outcome of all the upgradation work i.e. restoration of the river path, for this he suggested to go with the expert guidance and preparing a plan with work required to be executed, required treatment cost, execution agency, etc. JDA officials also agreed with the



opinion and guidance of the expert and committee members.

ii. Minutes of Meeting dated 23rd & 24th May 2022

Following committee members of CPCB & RSPCB and representative of JDA hold the physical meeting at STP, Gajadharpura on 23.5.2022 to have discussion on the restitution plan and having visit of the STP:

1. Shri Sunil Kumar Meena, Scientist-D, CPCB, Bhopal
2. Shri Vijay Sharma, Regional Officer, RSPCB, Jaipur (North)
3. Shri Shiv Ratan Pareek, EE, Jaipur Development Authority, Jaipur
4. Shri Nitin Goyal, JE, Jaipur Development Authority, Jaipur

It was informed by JDA officials that the leakages of the biogas reactor are plugged and same was verified on 23.5.2022 after lightening up the biogas flare. The bypass system was also verified and found that there are few incidences occur when colorful effluent enters into the plant same is bypassed through bypass drain. On an average about 2 Million Litre colorful effluent is bypassed monthly.

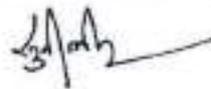
To assess the unit-wise performance of the plant, a grab sampling was conducted. The analysis result is as tabulated below:

Parameters (in mg/l)	Inlet	O/l of Grit chamber	O/l of primary clarifier_1	O/l of primary clarifier_2	O/l of aeration tank_1	O/l of Secondary clarifier_1	O/l of Secondary clarifier_2	Final O/l	Terminal O/l at 1km distance from final O/l
TSS	548	548	548	548	548	548	548	548	548
% treatment	-	5	82	82	84	86	87	93	92
BOD	218	208	77	73	38	32	34	17	19
% treatment	-	5	65	67	83	85	84	92	91
COD	623	615	255	239	171	128	124	93	97
% treatment	-	1	59	62	73	79	80	85	84

The analysis report revealed that the TSS & BOD removal are 93% and 92% respectively; however the COD removal is 85%. For achieving prescribed standards, it was suggested to engage an institute to carry out detailed composite sampling of the plant w.r.t. effluent treatment and energy consumption and biogas production potential. A field visit to terminal discharge point was also taken up and it was observed that the earlier constructed earthen channel was strengthened upto the length of about 800mtrs and no treated/untreated wastewater was found accumulated on the river bed. However, a small quantity of water was found stagnated at one place and on investigating, it was found that the concrete pipe manufacturing unit was discharging its domestic and process effluent into the river. Committee had a short visit of the unit and directed unit proprietor to establish a septic tank & soak pit and apply for the consent as per the prescribed norms.

The committee had a walk on the dried river bed and observed that the upper surface was dried up but beneath that it was a marshy land. On further survey, it was informed by JDA official that there was marshy land observed from 0.5m depth to 3m depth in different-different patches and on estimation, it was assessed that about 41000m³ of the sludge is to be cleaned up which is creating odorous environment in the surrounding.

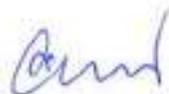
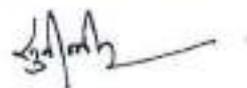
To further, explore the options of MBBR media introduction and constructed wetland development, a meeting was held on 24.5.2022 at MNIT, Jaipur with Prof Urmila Brighu, Civil Engineering Department. For the pilot study of the MBBR media in ongoing treatment unit, it was suggested that this MBBR media may result in slight improvement in the treatment quality but it needs to be ensured that no high COD effluent enters the system else this will also not result in good treatment.



Before introducing MBBR media, it is better to check the illegal units/persons who discharge chemical effluent illegally and also test the inlet effluent on colorful discharge for characterizing the effluent and accordingly treatment can be suggested. Regarding the constructed wetland, it was suggested to construct a vertical wetland and pass about 5MLD treated effluent through this wetland which may further reduce the BOD level and dilute the other portion of the treated effluent. However, constructed wetland shall be requiring a large area (380m² with 2.5m depth for 1MLD) and constructing such wetland in river bed requires further clearance from concern authority. JDA official informed that an upgradation plan is already in process and DPR is about to complete. The SBR based treatment shall improve the BOD level upto 10mg/l and a separate high COD treatment unit is also under consideration. Till completion of that upgradation, it is asked to expert institute to assess the performance and suggest recommendation on further improving the treatment quality.

iii. Minutes of Meeting dated 9th & 10th June 2022

To further review the restitution plan and ferti-irrigation plan, a meeting was held on 9th June 2022 at RSPCB, Jaipur (North) office. The discussion was held with CPCB, RSPCB & JDA official. The tentative cost estimation on various proposed activities under restitution plan were work out based on previous experiences and available rates of works. For analysing the treated wastewater for formation of Tri Halo Methane's (THMs) M/s Consulting Engineers Groups Ltd, Jaipur was contacted. JDA was asked to tie-up withany agency for the THM analysis on prescribed analysis charges. The expenditure on survey, transport, analysis and meeting with farmers were also

included. Sh Shiv Ratan Pareek, ExN, JDA officer informed that under STP upgradation plan from ASP to SBR technology all the other improvements viz. auto chlorinator, biogas generation, high COD effluent treatment, sludge drying bed etc. are included.

On 10th June 2022 committee along with Sh Rishikesh Meena, AE & Sh Nitin Goyal, JE of JDA, Jaipur visited SKN Agriculture University, Jobner (Rajasthan) and had a detailed discussion with Dr (Prof) Lala Ram Yadav, Head, Dept of Agronomy on possibility of treated sewage wastewater in agriculture area and command area. It was informed by Dr Yadav that river Bandi was found flowing way back in year 1981 then after it became non-perennial. The treated wastewater is being used by many farmers of Pachar and nearby villages. The use of water majorly depends on pH, Electrical conductivity, SAR values. The water can be assessed for these and other prescribed parameters under EPA, 1986 and accordingly a ferti-irrigation plan can be prepared. JDA was asked to have a MoU with the university and prepare a plan as per the CPCB guideline.

*Based on the discussion held during 03 meetings (19th May, 23rd & 24th May and 9th & 10th June, 2022), the restitution plan with tentative cost estimation and probable outcome was prepared & finalized after detailed discussion with concern JDA officers. The execution of the work shall start from 25th June 2022 positively. The copy of the restoration plan is enclosed as **Annexure-3**.*

The timelines and number of activities is as tabulated below:

Timeline	Number of activities
Immediate Action required (within 1 month)	08
Short term (1-3 months)	06
Mid Term (4-12months)	02

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Long term (1-2 years)	01
Regular activity	04

3. Execution agency

In compliance of the Hon'ble NGT direction theCPCB, State PCB and District Magistrate, Jaipur in coordination with the JDA has finalized the appropriate agency for executing the proposed works as per the restoration plan.

The STP is managed by Jaipur Development Agency, accordingly it was decided that JDA itself shall execute the planned work through registered contractor. Copy of the MoM is enclosed as **Annexure-4**.

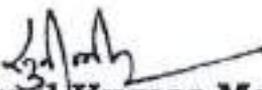
The progress on the execution of the work shall be overseen by the committee as constituted vide the Hon'ble NGT order.

4. Compliance status

The Jaipur Development Authority was asked to submit monthly progress report on the execution of the plan to nodal agency i.e. RSPCB. Further, the committee will have visit of the site and based on the progress on field shall submit quarterly report to the Hon'ble Tribunal.

The First progress report on the execution of the activities as per the plan since June 2022 is enclosed as **Annexure-5**.


(Vijay Sharma)
 Regional Officer
 RSPCB, Jaipur (North)


(Sunil Kumar Meena)
 Scientist-D
 CPCB, Bhopal

Item No. 03

(Court No. 1)

**BEFORE THE NATIONAL GREEN TRIBUNAL
SPECIAL BENCH**

(By Video Conferencing)

Original Application No. 80/2021(CZ)

(With report dated 03.01.2022)

Captain Satyender Kumar Singh

Applicant

Versus

State of Rajasthan & Ors.

Respondent(s)

Date of hearing: 25.04.2022

**CORAM: HON'BLE MR. JUSTICE ADARSH KUMAR GOEL, CHAIRPERSON
HON'BLE MR. JUSTICE SHEO KUMAR SINGH, JUDICIAL MEMBER
HON'BLE MR. JUSTICE SUDHIR AGARWAL, JUDICIAL MEMBER
HON'BLE DR. ARUN KUMAR VERMA, EXPERT MEMBER
HON'BLE PROF. A. SENTHIL VEL, EXPERT MEMBER**

Applicant: Ms. Purvi Mathur, Advocate

Respondent(s): Mr. Rohit Sharma, Advocate for RSPCB
Mr. Akshay for Mr. Sandeep Singh, Advocate for R - 2

ORDER

1. Grievance in this application is against violation of the mandate of the Water (Prevention and Control of Pollution) Act, 1974 by discharge of untreated sewage river Bandi, to the detriment of environment and public health. According to the Applicant, STP set up and operated by Jaipur Development Authority (JDA) at Gajadharpura, Kalwar Road, Jaipur, for treatment of sewage in the nearby area is not functioning properly and untreated sewage is discharged in the river.

2. Vide order dated 29.10.2021, the Tribunal issued notice to the Respondents, including JDA and the State PCB and also constituted a

joint Committee comprising CPCB and State PCB to furnish a factual and action taken report in the matter.

3. The joint Committee gave its report dated 03.01.2022, after visiting the site and found deficiencies in functioning of STP. The Committee found that the waste water was being discharged into river Bandi and the same was getting accumulated in the river bed. The STP was not meeting the prescribed norms of BOD, COD, TSS & Fecal Coliform. For 135 days of non-compliance, compensation on 'Polluter Pays' principle was assessed at the rate of Rs. 25,000/- per day and JDA has also been asked to take remedial measures. Relevant extracts from the report are reproduced below:-

“The committee visited the Activated Sludge Process based 30 MLD STP plant of Jaipur Development Authority established at village Gajadharpura, Kalwar, Jaipur and collected the samples from inlet, outlet, final discharge point and water flowing in river Bandi (the final discharge point of treated sewage). To ascertain the effect on the ground water due to the discharge of untreated sewage, the trend of the water quality obtained at identified monitoring station near River Bandi under National Water Quality Monitoring Program (NWMP) was considered.

1.0 About Sewage Treatment Plant:

*The Activated Sludge Process based 30 MLD STP plant was established by Jaipur Development Authority (JDA) and commissioned in year 2013 to cater the area viz. North-West area of Jaipur city (Outer area of Ajmer-Jaipur-Delhi 200 feet C-Zone by-pass, Neendad mod Sikar Road to Loha Mandi Area to Benad Road to Niwaru Road to Kalwar Road upto Gajadharpura). The Geographical location of the STP is 26.985341°, 75.617679°. The Consent to Operate (CTO) was granted on 26.6.2020 from RSPCB for 30 MLD STP & 500KVA DG Set is valid upto 29.2.2024 and 31.5.2025 respectively. Copy of the CTO is enclosed as **Annexure-I**.*

Earlier the plant operation was looked after by M/s M S Khurana Engineering Ltd, Ahmedabad. Presently from October 2018, the O&M is being looked after by M/s Ansu Engineering. The STP comprised following unit operations viz. raw sewage sump, mechanical screening, grit chamber, parshall flume, primary clarifier (02 nos x 2145 m³), aeration tanks (2 nos. x 3865 m³) with diffused aerators (02 nos), secondary clarifiers (02 nos x 2557 m³), Sludge thickener (1 no. x 4380 m³), Sludge digester (2 nos. x 2550 m³), gas holders. Chlorine Contact

Tank (CCT). The details of the unit operations are enclosed as **Annexure-II**.

The domestic wastewater treated through biological process and after chlorination is being discharged into the non-perennial river Bandi through 1 kms long closed conduit (RCC-HUME) pipeline from the STP outlet to final discharge points near Government Primary School, Kalbeliyon ki Dhani, Kalwar. As informed by JDA officials, the treated wastewater discharge in Bandi river by making/constructing earthen channel to provide treated water to farmers of the nearby villagers for farming.

2.0 Committee observations

2.1 Observation regarding STP:

- i. On the day of visit (8.12.2021), the STP was operational with an average flow of 25MLD. The details of the month-wise average flow is as tabulated below:

S.No.	Month	Duration	Average inlet flow (in MLD)
1	April, 2021	27.03.2021-26.04.2021	23.42
2	May, 2021	27.04.2021-26.05.2021	23.91
3	June, 2021	27.05.2021-26.06.2021	24.26
4	July, 2021	27.06.2021-26.07.2021	24.44
5	Aug, 2021	27.07.2021-26.08.2021	24.45
6	Sept, 2021	27.08.2021-26.09.2021	26.05
7	Oct, 2021	27.09.2021-26.10.2021	25.26
8	Nov, 2021	27.10.2021-26.11.2021	25.12
9	Dec, 2021	27.11.2021-07.12.2021	24.95

- ii. White color froth/foaming was observed at the point of discharge of treated wastewater.
- iii. The log books of inlet flow, quality of raw sewage and treated sewage, pump operation and electricity consumption are recorded. The copy of the logbook is enclosed as **Annexure-III**. It is pertinent to mention that the electricity consumption during 27.11.2021 to 7.12.2021 varied from 1488KWH to 1790KWH; this reveals that few unit operations were not being operated during this period that may have resulted in poor treatment performance.
- iv. Two by-pass lines exist as safety measure during shut down or unforeseen emergency. It is noteworthy that no metering arrangements have been provided at these by-pass lines. Thus possibility of direct passing of raw sewage into disposal conduit can't be ruled out.
- v. STP has not provided online continuous effluent monitoring system (OCEMS) for measurement of quality of treated waste water. An administrative & financial approval order dated 22.11.2021 issued by JDA for supply, installation &

maintenance of OCEMS for STP and NIT was issued on 3.12.2021 with last date of bid submission i.e. 27.12.2021. Copy of the administrative & financial order is enclosed as **Annexure-IV**.

- vi. The methane bio-gas holder was found un-lifted, that reveals that no gas is being produced since long, in this regard unit needs to trace for any leakages in bio-gas holder pipeline. It was also observed that the thickened sludge after filter press is being dumping in open land inside the premises without recovering the bio-gas. The sludge drying bed/ area is also not defined.
- vii. The aeration tank, Sludge Volume Index (SVI) was observed as more than 250; that reveal the poor treatability and lift-over of the sludge to Secondary Settling Tank.

2.2 Observation regarding the discharge of wastewater:

- i. The domestic wastewater treated through biological process and after chlorination is being discharged into the non-perennial river Bandi through 01 kms long closed conduit (RCC-HUME) pipeline from the STP outlet to final discharge points near Government Primary School, Kalbeliyon ki Dhani, Kalwar. As informed by JDA officials, the treated wastewater discharge in Bandi river by making/ constructing earthen channel to provide treated water to farmers of the nearby villagers for farming.
- ii. Jaipur Development Authority (JDA) has issued work orders for construction of temporary earthen channel for disposal of treated sewage water. The details are as tabulated below:

S. No.	Date of Work Order	Work order issued to	Construction of Channel from	Amount of Order
1	27.7.2020	M/s. Shiv Samota Construction Co.	STP to village Pachar	5,91,983/-
2	10.12.2020		Village Pachar to village Lalpura	2,78,807/-
3	22.01.2021		Villag Lalpura to Downward for safe disposal	3,47,271/-
4	24.03.2021	M/s. Muskan Construction	Maintenance of existing channel and Construction of new channel at Bassi Naga village to downward for safe disposal	3,13,359/-

The copy of the work orders are enclosed as **Annexure-V**.

2.2.1 Pictorial (Satellite-image) proof of channeling and stagnation of the wastewater:

The satellite image (Feb, 2019), revealed that there was stagnation of the domestic wastewater near the discharge point and there is no channel to stop stagnation.

The satellite image (Feb 2021), revealed that a channel was constructed parallel to river length, however still the stagnation of wastewater is visible near the discharge points, this may be due to damaged channel at few points.

The satellite image (Oct, 2021), revealed that the channel is damaged near the discharging point and the wastewater started accumulating in about 5Ha area of the river bed.

3.0 Analysis report

3.1. Analysis report of STP & river Bandi:

To assess the quality of treatment, samples were collected on 8.12.2021 from Inlet, Outlet, and final/terminal discharge point of STP. Sample was collected from bridge near Balaji Dham (Kalwar police station) to ascertain the quality of flowing water in river Bandi.

The analysis report is as tabulated below:

S. No	Sampling Location	GPS Location	Parameters (All are mg/l except pH)				
			pH	BOD	COD	TSS	Fecal Coliform (MPN/100ml)
1	Inlet of STP	26.984131°; 75.618578°	7.20	280	673	594	>2400
2	Outlet of STP	26.985155°; 75.617329°	7.71	24	92	46	150
3	Final / Terminal Point near Govt. Primary School at Kalbeliyon ki Dhani, Kalwar	26.987337°; 75.608677°	7.65	64	192	84	240
4	Bridge near Balaji Dham (Kalwar Police Station)	26.981679°; 75.603169°	7.28	220	477	504	460
Prescribed standards (As per NGT order dt. 30.04.2019 in O.A. 1069/2018)		-	5.5-9.0	10	50	20	Desirable: 100 Permissible: 230

The analysis results revealed that the STP was not meeting the prescribed discharge standards for BOD, COD, TSS & Fecal Coliform. This is resulted due to improper sludge volume index in aeration tank and the inadequate chlorine dosing.

The values of BOD, COD, TSS & Fecal Coliform was observed significantly high at the bridge near Balaji Dham (Kalwar Police Station) which is about 800mt distant from the final/terminal discharge point. The higher values may be due to discharge of untreated sewage and due to accumulation of partially treated domestic wastewater.

3.2 Analysis report of Ground water

To assess the ground water quality in the nearby area, sampling was done from tubewell near to Kalwar police station (GPS location 26.981779°, 75.603414°).

There is one tubewell near to STP which has already been identified under National Water Quality Program by Central Pollution Control Board (CPCB) and half-yearly monitoring is carried out by Rajasthan State Pollution Control Board (RSPCB). The analysis date from 2019 to 2021 of this location was also studied for any significant change in the ground water quality due to discharge of STP treated wastewater. The analysis report is as tabulated below:

Parameter	Sampling Locations						Drinking water Standard IS 10500:2 0 12
	NWMP location (Station code-4165) Borewell near STP at Gajadharapura, Jaipur (GPS Location: 26.983714,75.608426)						
	24 th April, 2019	16 th Oct, 2019	11 th June, 2020	7 th Oct, 2020	8 th April, 2021	8 th Dec, 2021	
pH	7.71	7.6	7.73	8.24	7.64	7.84	6.5-8.5
Temperature	27	27	33	33	30	-	-
Total Alkalinity	196	180	188	200	176	424	600
C.O.D.	10.01	6.6	20.00	4.00	11.89	4.5	-
Calcium as Ca	35.2	38.4	41.6	46.4	54.4	16	200
Chloride	144	128	156	112	164	108	1000
Conductivity	1070	1040	900	1110	1170	1047	-
Fecal Coliform	4	<3	3	9	14	<3	-
Fluoride As F	0.98	0.96	0.82	0.4	0.68	0.565	1.5
Magnesium	24.4	26.352	34.16	44.896	47.824	16	100
Nitrate as N	2.1	2.2	1.34	2.28	3.04	2.9	-
Nitrite as N	0.0044	0.0052	0.0044	0.0004	0.0052	-	-
Boron	0.23	0.26	0.31	0.46	0.36	-	1.0
Phosphate	0.1	0.2	0.1	0.1	0.2	-	-
Potassium	2.5	3.1	6.9	2.2	7.7	2.2	-
Sodium	72	68	104	114	126	2	-

Sulphate	175	145	94	68	92	33	400
Total Coliform	4	7	7	14	28	04	-
TDS	832	758	738	818	878	760	2000
T. hardness	188	204	244	300	332	104	600
Iron as Fe	0.527	NT	0.033	0.175	NT	1.77	0.3
Cadmium	NT	NT	NT	NT	NT	NT	0.003
Copper	NT	NT	NT	NT	NT	NT	1.5
Lead	NT	NT	NT	NT	NT	NT	0.01
Zinc	0.146	0.022	0.197	0.051	0.298	0.530	15

Note: All parameter accept pH, Temp (oC), Conductivity ($\mu\text{mho/cm}$), Coliform (MPN/100ml) are in mg/l.

The ground water quality at NWMP location and borewell near Kalwar Police Station showed that the values are well below the prescribed drinking water standards (IS 10500:2012). However, non-significant incremental in values of Total & Faecal coliform may be studied in light of any mixing of domestic wastewater in groundwater.

Copy of the analysis reports are enclosed as **Annexure-VI**.

4.0 Environmental compensation

The 30 MLD STP catering the need of North-West area of Jaipur city (Outer area of Ajmer-Jaipur-Delhi 200 feet C-Zone by-pass, Neendad mod Sikar Road to Loha Mandi Area to Benad Road to Niwaru Road to Kalwar Road upto Gajadharpura), currently operating on the average flow of 25MLD.

The partially treated wastewater is being discharged in non-perennial River Bandi, that resulted in accumulation of wastewater majorly in the 5Ha near the near the discharge point. This resulted in higher values of BOD, COD, TSS and Faecal Coliform. The settled sludge in cess pool create odorous environment in the local vicinity. Jaipur Development Authority (JDA) has awarded work order during July 2020 to March 2021 for the construction of earthen drain and its maintenance; this partially reduced the stagnation of the partially treated wastewater but due to damage in earthen drain the issue of stagnation again raised.

- The Environmental Compensation (EC) on the Authority for failing to achieve the discharge standards has 02 components:
 - i. Cost saved/benefits achieved by the concerned individual/authority by not having proper sewage management system; and
 - ii. Cost to the environment (environmental externality) due to untreated/partially treated waste/sewage because of insufficient capacity of sewage management/treatment facility

Non-compliance period:

Earlier, Rajasthan State Pollution Control Board (RSPCB) has reported noncompliance w.r.t. discharge standards vide its inspection dated 27.7.2021. (Copy of the report is enclosed as **Annexure-VII**). The similar

status of noncompliance was recorded by the NGT committee during its visit dated 8.12.2021.

The committee is in the opinion to impose the environmental compensation (EC) on the Jaipur Development Authority (JDA) for the period of noncompliance i.e. 27.7.2021 to 8.12.2021. (Note: This EC can be imposed for further non-compliance periods too)

Total days of non-compliance (27.7.2021 to 8.12.2021): **135 days**

The Environmental Compensation assessment was based on the following formula:

$$\text{Environmental Compensation (EC)} = \text{PI} \times \text{N} \times \text{R} \times \text{S} \times \text{LF}$$

Where,

PI= Pollution Index

N= Number of Days of non-compliance took place

R= A factor in Rupees for EC

S= Factor for scale of operation

LF= Location Factor

1	Pollution Index (PI) (STP was granted consent to Operate under Red category)	80
2	Number of Days of non-compliance (27.7.2021 to 8.12.2021)	135
3	A factor in Rupees for EC (in Rupees)	250
4	Factor for scale of operation	1.0
5	Location Factor (Jaipur city population is between 1 to <5 million)	1.25
	EC (per day) = (80 X 250 X 1.0 X 1.25)	Rs. 25000/-
	EC for non-compliance period of 135 days	Rs. 33,75,000/-

5.0 Action taken

5.1 For upgradation of the STP by Jaipur Development Authority & RSPCB

As the present ASP technology based 30MLD STP designed to achieve BOD as 20mg/l, COD as 250mg/l, TSS as 50mg/l and pH 6-8; however to achieve the new prescribed standards of pH 5.5-9, BOD 10mg/l, COD 50mg/l, TSS 20mg/l and fecal coliform 100MPN/100ml upgradation of the STP is needed. Following actions are taken by JDA:

- i. Administration & financial approval of Rs. 56,32,440/- issued on 1.12.2021 for "Consultancy work for preparation of DPR for the upgradation of 30MLD STP". Copy of the same is enclosed as **Annexure-VIII.**

- ii. For uninterrupted operation of STP a 500KVA DG set was installed and CTO obtained from RSPCB with a validity upto 31.5.2025. Copy of the CTO is enclosed as **Annexure-I**.
- iii. An administrative & financial approval order dated 22.11.2021 issued by JDA for supply, installation & maintenance of OCEMS for STP and NIT was issued on 3.12.2021 with last date of bid submission i.e. 27.12.2021. Copy of the administrative & financial order is enclosed as **Annexure-IV**.
- iv. RSPCB has communicated the outcome of field visit (27.7.2021) vide letter dated 21.9.2021 and directed to comply the shortcoming w.r.t. upgradation of STP, OCEMS, reuse of the treated wastewater etc. Copy of the letter is enclosed as **Annexure-IX**.

5.2 Action taken for channeling the treated wastewater by JDA

- i. Jaipur Development Authority (JDA) has issued work orders for construction of temporary earthen channel for disposal of treated sewage water. The details are as tabulated below:

S. No.	Date of Work Order	Work order issued to	Construction of Channel from	Amount of Order
1	27.7.2020	M/s. Shiv Samota Construction Co.	STP to village Pachar	5,91,983/-
2	10.12.2020		Village Pachar to village Lalpura	2,78,807/-
3	22.01.2021		Villag Lalpura to Downward for safe disposal	3,47,271/-
4	24.03.2021	M/s. Muskan Construction	Maintenance of existing channel and construction of new channel at Bassi Naga village to downward for safe disposal	3,13,359/-

The copy of the work orders are enclosed as **Annexure-V**.

- ii. During the filed visit of the committee, JDA officials were instructed to immediately start the repair work of the damaged earthen drain to stop accumulation of the partially treated wastewater. JDA has started the repairing work and the field photographs (14.12.2021) are as below:

6.0 Recommendations

1. **Jaipur Development Authority (JDA) to deposit the environmental compensation of Rs. 33,75,000/- (Thirty Three Lacs Seventy Five Thousand rupees) for reported non-compliance of 135 days. The imposition of EC with the rate of Rs. 25000/- may be applicable on daily basis till the compliance of prescribed norms achieved.**
2. *Jaipur Development Authority (JDA) shall submit its action plan of upgradation and reuse of treated sewage.*
3. *Jaipur Development Authority (JDA) shall repair the earthen channel to avoid any stagnancy.*
4. *Jaipur Development Authority (JDA) shall repair the biogas pipeline and start the operation of sludge digester with gainful utilization of bio-gas produced rather flaring as an option.*
5. *Jaipur Development Authority (JDA) shall update its logbooks of electricity consumption, biogas generation; install flow meter on bypass drain etc. Also maintain logbook of sludge generation and sale record of dried sludge. JDA also construct sludge drying bed (SDB) at identified site.*
6. *Jaipur Development Authority (JDA) shall ensure that during upgradation of STP on new technology, the existing STP plant also be operational till its commissioning.*
7. *Jaipur Development Authority (JDA) may be directed to expedite the upgradation of the STP to achieve the prescribed standards.*
8. *Public Health Engineering Department (PHED) and Ground Water Department may investigate the borewells falling within 100m of Bandi river's bank (Both Sides) from the discharge point specifically for Fecal Coliform & Nitrate.”*

4. The report was considered vide order dated 28.01.2022 and JDA and State PCB were directed to take remedial action and ensure that untreated sewage is not discharged into any waterbody in violation of law. It was also directed that environmental compensation be recovered for entire period of violation.

5. Reply has also been filed by the JDA, State PCB and the Contractor to whom the work of maintenance of STP is granted by JDA. The stand of JDA is that various industrial units are discharging effluents in the sewer line which results in inadequacy of functioning of STP. Stone crushing units are also functioning in the area illegally which requires the State

PCB to take action against the erring industries and the operators of stone crushers. The damaged water channels have since been repaired as a result of which some improvement has taken. STP is to be upgraded by 2024.

6. The stand of the State PCB is that there are deficiencies in functioning of STP operated by JDA as found during inspection and conveyed to JDA vide letter dated 21.09.2021. The stand of the Contractor appointed by JDA is that there is no omission on its part and the Contractor is not a necessary party to the application.

7. We have considered the rival submission. The issue for consideration is the liability for violation of environmental norms on account of discharge of untreated sewage in the river as found by the joint Committee of CPCB and State PCB. The said report of the Committee has not been challenged. We accept the same in view of constitution of the Committee which has verified facts on the spot. The report shows deficiencies in functioning of STP resulting in discharge of untreated sewage in the river to the detriment of public health and environment, which is an offence under the law. The non-compliances include two Bypasses without being permitted in CTO, disposal of effluents into river Pali instead of there being atleast a ferti-irrigation plan, improper management of sludge, poor recovery of biogas, damaged conveyance system for carriage of effluents which is leading to inundation and further disposal of untreated effluents into final conduit (channel) showing BOD reaching to 220 mg/l. It appears that dosing of chlorine for disinfection of effluent with higher BOD level may result in formation of organo halogens like tri halo methane which are carcinogenic in nature. Instead of utilising effluents for industrial purpose, industries are reportedly allowed to discharge into sewers, irrespective of nature of effluents. The JDA acknowledges the

violation by taking the plea that the STP will be upgraded in 2024. Its stand that there is discharge of effluents or other waste by industries and stone crushers may be looked into by the statutory regulators and action taken as per law but JDA has to be held accountable for continuing violations, apart from being required to remedy the violations at the earliest and not leisurely as proposed by it.

8. Accordingly, JDA as a responsible public body, must take emergency measures to ensure remedial action in a time bound manner. Till compliance, the compensation assessed has to be adequate to cover the cost of restitution and also deterrent and not on any formula which does not take into account these essential components. Let the joint Committee work out and recover such compensation within one month. The same be credited to a separate account to be used for restoration, by preparing an action plan. Pending further action, we direct JDA to deposit a sum of Rs. 2 Crores towards interim compensation with the District Magistrate, Jaipur. The same be used for restoration by preparing an action plan by CPCB and State PCB in coordination with the JDA, to be executed through an appropriate agency which may be determined by CPCB, State PCB and District Magistrate, in coordination with the JDA. Pending restoration of the work, immediate interim measures may be taken to ensure that no untreated sewage or waste water is discharged in a water body or in open in violation of law. The restoration plan may also include measures to utilize the treated water for non-potable purposes, including for industrial purposes, gardening or railway washing. The immediate restoration measures may include preventing untreated sewage being let off near the school, as found earlier. Action plan should include maintenance of conveyance system for utilisation of treated water (compliant with norms), defining command area and users for irrigating the fields with well laid out

protocols to prevent damage to the ground water, maintenance of sludge and biogas recovery, preventing formation of THMs (backed up analytical data) and working out sewage utilisation plan for industrial and other bulk consumers in coordination with SPCB, CPCB, RIICO, Industries Department, and others. This plan should also be made applicable to other operating STPs in Jaipur and other parts in the State.

The Committee may file its report within four months with the Registrar General of this Tribunal by e-mail preferably in the form of searchable PDF/OCR Support PDF and not in the form of Image PDF. If any further direction is found necessary, the R.G. may place the matter before the Bench.

Subject to above, the application is disposed of.

A copy of this order be forwarded to CPCB, State PCB, District Magistrate, Jaipur and JDA by e-mail for compliance.

Adarsh Kumar Goel, CP

S.K. Singh, JM

Sudhir Agarwal, JM

Dr. Arun Kumar Verma, EM

Prof. A. Senthil Vel, EM

April 25, 2022
Original Application No. 80/2021(CZ)
SN



Regional Office, Jaipur (North)
Rajasthan State Pollution Control Board

Opposite Road No. 5, VKIA, Sikar Road, Jaipur-302013
 Phone: 0141-2850100; e-mail: rorpcb.jaipur@gmail.com

Regd. Post/e-mail

No. RPCB/ROJP(N)/Legal-151/ 277-281

Date, 27-06-2022

Executive Engineer (PHE-02)

Jaipur Development Authority

Opposite Birla Mandir, Jaipur

Sub: - Compliance of directions passed by Hon'ble National Green Tribunal in OA no. 80/2021, Captain Satyedra Singh Vs State of Rajasthan & Ors. regarding

Ref. - Order of Hon'ble Tribunal dated 25/04/2022 in OA no. 80/2021

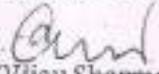
Sir,

Apropos above, the Hon'ble Tribunal disposed the OA no. 80/2021 Captain Satyender Kumar Singh Vs State of Rajasthan & Ors with direction to the JDA to deposit a sum of Rs. 2 Crores towards interim compensation with the District Magistrate, Jaipur. The same be used for restoration by preparing an action plan by CPCB and State PCB in coordination with the JDA, to be executed through an appropriate agency which may be determined by CPCB, State PCB and District Magistrate, in coordination with the JDA.

The compliance of deposition of interim compensation of Rs. 2.00 crores by Jaipur Development Authority is not yet received.

You are requested to forward the compliance of the order of the Hon'ble Tribunal to this office at the earliest.

Yours sincerely


 (Vijay Sharma)

Regional Officer

Copy to following for information :

1. Commissioner, Jaipur Development Authority, Jaipur
2. District Collector, Jaipur
3. Group In-charge (Liquid Waste), RSPCB, Jaipur
4. Group In-charge (Legal), RSPCB, Jaipur


 Regional Officer



Rajasthan State Pollution Control Board

Headquarter, 4, Institutional Area, Jhalana Doongri, Jaipur-302004

Phone : 0141-2711263,2716802 e-mail : member-secretary@rpcb.nic.in

RSPCB HelpLine No. : 0141-2716877

No F 14 (Tech-Jaipur)/ STP-9/RPCB/ LW/ 9-11

Date: 14/07/2022

Director Engineering-III,
Jaipur Development Authority,
Ram Kishor Vyas Bhawan, India Circle, JLN Marg,
Jaipur- 302004.
E-mail Id- jdc.jda@rajasthan.gov.in,
Devendragupta.jda@rajasthan.gov.in

Sub:- Deposition of Rs. 2.00 Crore as interim compensation-reg.
Ref.:- Hon'ble NGT order dated 25.04.2022 in the matter of OA No. 80/2021-Captain
Satyendra Kumar Singh Vs State of Rajasthan & Others.

Sir,

The Hon'ble NGT vide its order dated 25.04.2022 has directed inter-alia that:-

"..... Pending further action, we direct JDA to deposit a sum of Rs. 2 Crores towards interim compensation with the District Magistrate, Jaipur. The same be used for restoration by preparing an action plan by CPCB and State PCB in coordination with the JDA, to be executed through an appropriate agency which may be determined by CPCB, State PCB and District Magistrate, in coordination with the JDA.

It has been noted that information regarding deposition of the amount against interim compensation as above has not been received so far, which is contempt of the orders of the Hon'ble NGT.

Therefore, you are directed to deposit the amount of interim compensation as per directions of Hon'ble NGT and inform accordingly.

Yours sincerely,

— 16 —

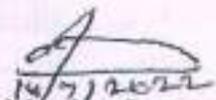
(V.S. Brijwasi)

Member Secretary

Copy to following for information/necessary action:-

1. Commissioner, Jaipur Development Authority, Ram Kishore Vyas Bhawan, Indra Circle, JLN Marg, Jaipur, Rajasthan-302004.
2. District Magistrate, Jaipur.

3. Executive Engineer, Jaipur Development Authority, Ram Kishore Vyas Bhawan, Indra Circle, JLN Marg, Jaipur, Rajasthan-302004
4. Regional Officer, RSPCB, Jaipur(North)- Please follow up with the JDA for deposition of the amount of compensation. Please also report the steps to be taken by the JDA for stopping pollution in compliance of direction of the Hon'ble NGT.
5. Master file.


14/7/2022
Member Secretary



Rajasthan State Pollution Control Board

Headquarter, 4, Institutional Area, Jhalana Doongri, Jaipur-302004
Phone : 0141-2711263,2716802 e-mail : member-secretary@rpcb.nic.in

RSPCB Help Line No. : 0141-2716877

No.F.14 (Tech_Jaipur) /STP-9/ RSPCB/LW/1096

Date: 12/08/2022

Executive Engineer (PHE-II)
Jaipur Development Authority
JLN Marg, Jaipur
Email- eephe2@gmail.com

Subject:- Regarding deposition of Rs. 2.00 Cr. as interim compensation to District Magistrate, Jaipur as per direction issued by Hon'ble National Green Tribunal in O.A. No. 80/2021, Captain Satyendra Kumar Singh V/s. State of Rajasthan & Ors.

Ref:- Your Letter No. JDA/EE/PHE-II/2022/D-395 dated 26.08.2022.

Sir,

Apropos above, you were informed vide above referred letter that JDA has appealed before Hon'ble Supreme Court against the order passed by the Hon'ble National Green Tribunal on 25.04.2022 in the matter of O.A. No. 80/2021 (CZ), Captain Satyender Kumar Singh V/s. State of Rajasthan & Ors and not deposited amount of Rs. 2.00 Cr. towards interim compensation to District Magistrate Jaipur, so far. Further, Hon'ble NGT has also directed vide order dated 25.04.2022 that :-

".....we direct JDA to deposit a sum of Rs. 2 Crores towards interim compensation with the District Magistrate, Jaipur. The same be used for restoration by preparing an action plan by CPCB and State PCB in coordination with the JDA, to be executed through an appropriate agency which may be determined by CPCB, State PCB and District Magistrate, in coordination with the JDA. Pending restoration of the work, immediate interim measures may be taken to ensure that no untreated sewage or waste water is discharged in a water body or in open in violation of law....."

The interim compensation order has not been stayed yet by the Hon'ble Supreme Court, in this situation you are once again requested to deposit the amount of Rs. 2.00 Cr. to District Magistrate, Jaipur towards interim compensation, so same can be incorporated in the compliance report and for implementation of action plan for restoration in compliance of the Hon'ble NGT orders.

This bears approval of the competent authority.

Yours sincerely,

—sd—

(Bhuvanesh Mathur)
Group Incharge (LW)

Copy to following for information/necessary action please:-

1. Regional Officer, RSPCB, Jaipur (North)- Please find enclosed JDA's letter dated 26.08.2022 and submit the progress of compliance report which was to be filed in Hon'ble NGT within four months.
2. GIC (Legal) RSPCB Jaipur-Please incorporate the contents in committee's report.
3. Master file.

Bhuvanesh Mathur
Group Incharge (LW)

*For urgent Action Pl.
sd
19/09/2022*





Regional Office, 37 Jaipur (North)
Rajasthan State Pollution Control Board

Opposite Road No. 5, VKIA, Sikar Road, Jaipur-302013
Phone: 0141-2850100; e-mail: rorpcb.jaipur@gmail.com

Registered Post/E-mail

F. No. RPCB/ROJP(N)/Legal-151/621-626

Date, 16-09-2022

Executive Engineer (PHE-02)
Jaipur Development Authority
Opposite Birla Mandir, Jaipur

Sub. - Implementation of the Restitution Plan prepared by joint committee in compliance of directions passed by Hon'ble National Green Tribunal in OA no. 80/2021, Captain Satyender Singh Vs State of Rajasthan &Ors. regarding

Ref. - i) Order dated 25/04/2022 of Hon'ble Tribunal in OA no. 80/2021
ii) Restitution plan prepared by the Joint Committee

Sir,

Apropos above, the Hon'ble Tribunal disposed the OA no. 80/2021 Captain Satyender Kumar Singh Vs State of Rajasthan &Ors with direction to the joint committee to comprising of Central Pollution Control Board and Rajasthan State Pollution Control Board to work out & recover the compensation within 1 month that is adequate to cover cost of restitution, shall be deterrent and covers all essential components/deficiencies. The tribunal also directed the committee to prepare a restoration plan in coordination with JDA, to be executed through an appropriate agency which may be determined by CPCB, State PCB and District Magistrate, in coordination with the JDA.

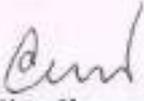
In compliance to the referred order dated 25/04/2022 the joint committee has prepared the Restitution Plan for Sewage Treatment Plant, Gajadharpura in consultation with your office and the same was forwarded to your office vide letter dated 24/06/2022.

The meeting of the officials of the District Administration, State Pollution Control Board and Jaipur Development Authority was held on 14/09/2022 to discuss upon the implementation of the restitution plan.

The minutes of the meeting are being forwarded for further necessary action and to ensure compliance of the orders of the Hon'ble Tribunal.

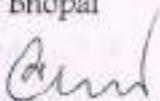
Yours sincerely

Encl. Minutes of Meeting


(Vijay Sharma)
Regional Officer

Copy to following for information.

1. Commissioner, Jaipur Development Authority, Jaipur
2. District Collector, Jaipur
3. Group In-charge (Liquid Waste), RSPCB, Jaipur
4. Group In-charge (Legal), RSPCB, Jaipur
5. Shri Sunil Kumar Meena, Scientist D, Central Pollution Control Board, Bhopal


Regional Officer

Minutes of Meeting

A meeting was held on 14/09/2022 under the chairmanship of District Collector Jaipur to discuss the implementation of the restitution/restoration plan for 30 MLD STP Kalwar (Gajadharpura) Jaipur in compliance of Hon'ble NGT order dated 25/04/2022 in O.A. No. 80 of 2021 (CZ) in the matter of Captain Satyender Kumar Singh v/s State of Rajasthan and others, the meeting was attended by following:

1. Shri Dinesh Kumar Sharma ADM-I, Jaipur.
2. Shri Vijay Sharma, R.O., RSPCB, Jaipur(North)
3. Shri M.L. Jangid, Executive Engineer, Jaipur Development Authority (PHE-2) Jaipur

After detailed discussion following decisions were taken :

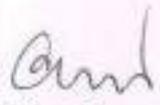
- Restitution Plan Point No. 8 (Cleaning of sludge from the river bed) is to be executed through a contractor.

JDA got a primary assessment of work by a contractor, therefore, on the directions of Distt. Collector, JDA tried to re-assess per unit cost and total cost, JDA assessed the per unit cost of the work of Sludge removal but total cost of the complete work could not be assessed and intimated by the JDA. It was directed by the Distt. Collector that works as per the restitution plan should be done by the JDA through the Registered Contractor without further delay.

In compliance of the directions given in the earlier meeting, JDA representative informed that sample of the sludge has been sent to the Agriculture College, Jobner and report is awaited which is expected in the month of Oct, 2022.

Besides, representative of JDA informed that JDA has filed an appeal before the Hon'ble Supreme Court against the order dated 25.04.2022 passed by the Hon'ble NGT. District Collector directed the representative of JDA to immediately deposit sum of Rs. 2.00 Crore to the Distt. Collector's account as interim compensation, as directed by the Hon'ble NGT vide order dated 25.04.2022

The meeting ended with a vote of thanks to the chair.


 (Vijay Sharma)
 Regional Officer
 Rajasthan State Pollution Control Board
 Jaipur(North)

Restitution Plan in NGT O.A. 80 of 2021 (CZ) w.r.t. STP, River Bandi, Treated water management

S.NO.	Action required	Responsible Agency	Execution Agency	Tentative Cost (in Rs.)	Probable Outcome	Timeline	Remark (if any)
Immediate Action required (within 1 month)							
1.	Stopping the STP Bypass and installation of manual/digital flow meters on the bypass line.	JDA	JDA	2.0 Lacs	No discharge of untreated / partially treated effluent other than the rainwater	30 days	Placing flow meter on the bypass drain at inlet to quantify the bypass quantity and events of colored effluents and maintenance of log book for it.
2.	Identification of the units operating in non-industrial areas / industrial areas and discharging wastewater reaching this STP.	JDA (non-industrial area) and RSPCB in association with JDA (industrial area)	JDA (non-industrial area) RSPCB (industrial area)	2.0 Lacs	No industrial effluent will meet the sewer, which will result in an improvement in treatment	30 days	Expenditure on transport, analysis etc.
3.	Identification of the units operate on the left bank of river Bandi for their sewer discharge and ensure a treatment in STP or provide septic tank	RSPCB & JDA	JDA, RSPCB & respective unit	-	No direct discharge of untreated sewer in river Bandi	30 days	RSPCB brought unit under Consent provision and ensure septic tank establishment and stop discharge in river. Expenditure shall be borne by the unit.
4.	Unit-wise Performance Assessment	RSPCB to provide facility on	JDA with some educational	3.0 Lacs	Help in developing an effective improvement plan	30 days	Expert institutional charges & others

	(composit sampling) of the STP w.r.t. Quality of treatment, Energy consumption, optimized Chlorine dosing biogas generation potential etc.	chargeable basis and expenses to be borne by JDA.	institute				
5.	Construction of Sludge drying/storage area	JDA	JDA	0.25 Lacs	Proper management of sludge	30 days	The SDB construction is under upgration plan. For storing the dried sludge near centrifugal machine may be established.
6.	Detection & Repairing of leakages of biogas holder tank	JDA	JDA	1.5 Lacs	Production of biogas	30 days	-
7.	Repair the flow meters, the sensor installed	JDA	JDA	2.5 Lacs	Effective data logging	30 days	-
8.	Cleaning of sludge from the river bed	JDA	JDA	30.0 Lacs	Cleaning of river bed and reduction in odourous environment	30 days	As per the estimation of the JDA the sludge shall be dried and progress on the work shall be updated to RSPCB week.
Short term (1-3 months)							
1.	Procure and installation of OCEMS with server connectivity with RSPCB, CPCB	JDA	JDA	10.0 Lacs	Continuous data dissemination	3 months	-

2.	Introduction of treatment improvising strategy viz. sludge cleaning of PST, SST & other tanks	JDA	JDA	2.0 Lacs	Improved treatment quality	2 months	-
3.	Repair & optimize the chlorine dosing	JDA	JDA	0.25 Lacs	Optimized chlorine dosing	2 months	-
4.	Survey of the command area & users (stone crusher, township horticulture, irrigation, etc.) of the treated wastewater and quantification of reuse potential	JDA	JDA & RSPCB along with Municipal Body	2.0 Lacs	Record on the command area and users	2 Months	Expenditure on surveying and deliberation
5.	Plan for supplying the treated wastewater to the identified users, IEC activities & revenue model	JDA	JDA	10.0 Lacs	Plan for utilization of the wastewater along with Agricultural University	3 Months	- MoU with Agricultural university. Deliberation & discussion with potential users of the water and agreements.
6.	Survey & analysis of water quality of the open well/Dugwell on both banks of the river upto 15 Kms distance from the discharge point	JDA & RSPCB	RSPCB in cordication with JDA.	2.0 Lacs	The analysis report shall provide insight into the present water quality and help in strategizing the restoration plan accordingly.	3 Months	Survey & analysis charges.

Mid Term (4-12months)							
1.	Construction & strengthening of conveyance from discharge point to final point upto approx. 15 km distance	JDA	JDA & identified agency	65.0 Lacs	No accumulation of partially treated wastewater & reduced odor issue.	6 months	Expenditure on the construction & strengthening of the conveyance channel required after removing sludge from the river bed
2.	Arrangement of adequate tanker filling station for treated wastewater for utilization	JDA	JDA	2.0 Lacs	The utilization of treated wastewater will increase with revenue generation	6 Months	JDA may provide filling station at appropriate location
Long term (1-2 years)							
1.	Upgradation of STP to SBR based technology	JDA	JDA	-	Achieve prescribed discharge standards	1-1.5 Years	Scheduled to complete by June 2024
Regular activity							
1.	Monthly monitoring of STP treatment quality	RSPCB	RSPCB	3.0 Lacs	Provide data for devising a quality improvement plan	Monthly	Composite sampling w.r.t. unit wise performance
2.	Monitoring of THMs	RSPCB	Sampling by RSPCB/third party and expenses to be borne by JDA	2.0 Lacs	Provide data for optimizing the quality of treatment	Monthly	-
3.	Maintenance of the conveyance drain for treated wastewater	JDA	JDA & identified agency	5.0 lacs/annum	No accumulation of the partially treated wastewater & no foul smell	Quarterly & on complaint basis	- JDA has engaged agency for repair with Rs. 40000/month cost

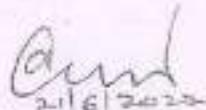
4.	Proper management of the logbooks on details of effluent quantity, chemical use, biogas generation, electricity consumption, etc.	JDA	JDA & identified agency	-	Correct information shall guide in preparing the effective improvement plan	Daily	- JDA shall ensure proper logbooks entries
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Note:

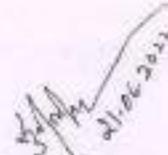
1. The monthly progress on the execution shall be overseen by the joint committee of CPCB, RSPCB & District administration.
2. The tentative estimated cost was finalized after due discussion with Jaipur Development Authority (JDA).
3. Jaipur Development Authority (JDA) shall suggest civil construction agencies and technical institutes for the above identified actions to the committee for finalizing the appropriate ones for restitution work.
4. Jaipur Development Authority (JDA) shall provide documents related to Immediate Action required (S.No. 5 & 8), Short term (S.No. 1), Mid term (S.No. 1), Long term (S.No. 1) and Regular activity (S.No. 3).
5. Further modifications in the restitution plan may be suggested by the committee and to be adopted by the JDA, for achieving the desired outcomes.



(Shiv Ratan Pareek)
Executive Engineer
JDA, Jaipur



(Vijay Sharma)
Regional Officer
RSPCB, Jaipur (North)



(Sunil Kumar Meena)
Scientist-D
CPCB, RD, Bhopal

Minutes of Meeting

A meeting was held on 14/09/2022 under the chairmanship of District Collector Jaipur to discuss the implementation of the restitution/restoration plan for 30 MLD STP Kalwar (Gajadharpura) Jaipur in compliance of Hon'ble NGT order dated 25/04/2022 in O.A. No. 80 of 2021 (CZ) in the matter of Captain Satyender Kumar Singh v/s State of Rajasthan and others, the meeting was attended by following:

1. Shri Dinesh Kumar Sharma ADM-I, Jaipur.
2. Shri Vijay Sharma, R.O., RSPCB, Jaipur(North)
3. Shri M.L. Jangid, Executive Engineer, Jaipur Development Authority (PHE-2) Jaipur

After detailed discussion following decisions were taken :

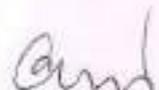
- Restitution Plan Point No. 8 (Cleaning of sludge from the river bed) is to be executed through a contractor.

JDA got a primary assessment of work by a contractor, therefore, on the directions of Distt. Collector, JDA tried to re-assess per unit cost and total cost, JDA assessed the per unit cost of the work of Sludge removal but total cost of the complete work could not be assessed and intimated by the JDA. It was directed by the Distt. Collector that works as per the restitution plan should be done by the JDA through the Registered Contractor without further delay.

In compliance of the directions given in the earlier meeting, JDA representative informed that sample of the sludge has been sent to the Agriculture College, Jobner and report is awaited which is expected in the month of Oct, 2022.

Besides, representative of JDA informed that JDA has filed an appeal before the Hon'ble Supreme Court against the order dated 25.04.2022 passed by the Hon'ble NGT. District Collector directed the representative of JDA to immediately deposit sum of Rs. 2.00 Crore to the Distt. Collector's account as interim compensation, as directed by the Hon'ble NGT vide order dated 25.04.2022

The meeting ended with a vote of thanks to the chair.


 (Vijay Sharma)
 Regional Officer
 Rajasthan State Pollution Control Board
 Jaipur(North)

Compliance of Restitution Plan in NGT O.A. 80 of 2021 (CZ) w.r.t. STP, River Bandi, Treated water management

S.N O.	Action required	Responsible Agency	Execution Agency	Probable outcome	Compliance Status
Immediate Action required (with in 1 month)					
1.	Stopping the STP Bypass and installation of digital flow meters on the bypass line.	JDA	JDA	No discharge of untreated/partially treated effluent other than the rainwater	In the matter it is submitted that Flow Meter & CC TV Camera on Inlet point will be installed very soon.
2.	Identification of the units operating in non-industrial areas / industrial areas and discharging wastewater reaching this STP.	JDA (non-industrial area) and RSPCB in association with JDA (industrial area)	JDA (non-industrial area) RSPCB (industrial area)	No industrial effluent will meet the sewer, which will result in an improvement in treatment	In this regard, JDA is trying to identify the local units at own level through STP O&M agency. In this regards, when chemical water reaches at STP then its trying to trap through open the sewer manhole at particular interval so that a reach may be fixed/identified. Senior Regional Manager of RIICO was contacted by RSPCB to explore the possibility of discharge of colour effluent to the STP and no units found operating in the industrial area that may discharge colored effluent in sewer drain.
3.	Identification of the units operate on the left bank of river Bandi for their sewer discharge and ensure a treatment in STP or provide septic tank	RSPCB & JDA	JDA, RSPCB & respective unit	No direct discharge of untreated sewer in river Bandi	M/s Natani polymers unit has been identified. A show cause notice for intended direction for closure under Air and Water act has been issued on 26/07/2022.

S.N O.	Action required	Responsible Agency	Execution Agency	Probable outcome	Compliance Status
4.	Unit-wise Performance Assessment (composit sampling) of the STP w.r.t. Quality of treatment, Energy consumption, optimized Chlorine dosing biogas generation potential etc.	RSPCB to provide facility on chartgeable basis and expenses to be borne by JDA.	JDA with some educational institute	Help in developing an effective improvement plan	Malviya Institute of Technology (MNIT) was requested for unit wise performance assessment. In this regards, a field visit was made with MNIT Professors on dated 09.09.2022 (Photograph are enclosed at Annexure-I) and they suggest some suggestion for which few test shall be conducted and required amount of consultancy shall be deposited by JDA to MNIT after quotation received from MNIT. In addition to this, for composite sampling (paid), JDA has already deposited requisite amount to RSPCB vide letter no. D-396 dated 26.08.2022 (Copy Enclosed at Annexure-XII A & B).
5.	Construction of Sludge drying/storage area	JDA	JDA	Proper management of sludge	In the matter it is submitted that, as per discussion during the joint visit, sludge is being collected in Poly Bags as Temporary arrangement (<i>Photographs Enclosed at Annexure-II</i>). Till up-gradation work completed.
6.	Detection & Repairing of leakages of biogas holder tank	JDA	JDA	Production of biogas	The leakage of Bio gas pipe line was found through soap water method which has been rectified. It was rectified by replacing of damaged gaskets and repairing of valve. It is also submitted that The Gas flair unit is also in function (Photographs are enclosed at Annexure-III). At present, there is no measuring unit installed in the existing system for measurement.
7.	Repair the flow meters, the sensor installed	JDA	JDA	Effective data logging	Work has been completed and all sensors are in working condition at present. <i>Photos of working sensor and flow meters are enclosed as Annexure-IV</i> .

S.N O.	Action required	Responsible Agency	Execution Agency	Probable outcome	Compliance Status
8.	Cleaning of sludge from the river bed	JDA	JDA	Cleaning of river bed and reduction in odourous environment	In this regard to take the initial action Rs. 5.00 Lakh work order has been issued Annexure-V and as far as concerned removal of the sludge, there is no site to dispose the same due to opposition of peoples. At present there is no foul smell on the sludge sports.
Short term (1-3 months)					
1.	Procure and installation of OCEMS with server connectivity with RSPCB, CPCB	JDA	JDA	Continuous data dissemination	OCEMS has installed at STP which is under trial. RSPCB has also requested to provide necessary direction to link the data with online server vide letter no. D-382 dated 03.08.2022. The RSPCB has replied by Email on 22.08.2022 to deposit fee for configuration with the Online Monitoring Portal of the State Board as per Office order dated 10.09.2021 and RSPCB also directed to JDA for submit a filled Pre Deployment Checklist for the applicable parameters. Reply to RSPCB with requisite fees shall be deposited soon with filled pre Deployment Checklist as desire. <i>Detail of Purchase order and installation report is enclose as Annexure-VI.</i>
2.	Introduction of treatment improvising strategy viz. sludge cleaning of PST, SST & other tanks	JDA	JDA	Improved treatment quality	Work has been completed and detail is <i>enclosed as Annexure-VII with Photographs.</i>
3.	Repair & optimize the chlorine dosing	JDA	JDA	Optimized chlorine dosing	Chlorine dosing is regularly being done by JDA. Detail of Chlorine and <i>photographs of CCT and Chlorine tanks are enclosed at Annexure-VIII.</i>

S.N O.	Action required	Responsible Agency	Execution Agency	Probable outcome	Compliance Status
4.	Survey of the command area & users (stone crusher, township horticulture, irrigation, etc.) of the treated wastewater and quantification of reuse potential	JDA	JDA& RSPCB along with Municipal Body	Record on the command area and users	At present treated water of STP is being utilized by local farmers for farming purpose. Further action will be insure as per consultancy report received.
5.	Plan for supplying the treated wastewater to the identified users, IEC activities & revenue model	JDA	JDA	Plan for utilization of the wastewater along with Agricultural University	At present there is no township is located nearby.
6.	Survey & analysis of water quality of the open well/Dugwell on both banks of the river upto 15 Kms distance from the discharge point	JDA & RSPCB	RSPCB in cordication with JDA.	The analysis report shall provide insight into the present water quality and help in strategizing the restoration plan accordingly.	Survey of the water quality of the open well/Dugwell on both banks of the river up to 15 kms distance has been done and water samples collected on 25/07/2022 by RSPCB Officials.
Mid Term (4-12months)					
1.	Construction & strengthening of conveyance from discharge point to final point upto approx. 15 km distance	JDA	JDA & identified agency	No accumulation of partially treated wastewater & reduced odor issue.	In this regard, for regular cleaning of earthen channel, work order has been issued. This is regular process and being maintained by JDA. <i>Work order copy and GPS location Photographs are being enclosed at Annexure-IX.</i>

S.N O.	Action required	Responsible Agency	Execution Agency	Probable outcome	Compliance Status
2.	Arrangement of adequate tanker filling station for treated wastewater for utilization	JDA	JDA	The utilization of treated wastewater will increase with revenue generation	In the matter it is submitted that Tanker Filling Point has been developed (Annexure-X) at Site and Motor for Pumping from Treated Water Tank to Main Gate is being ordered. Tanker Filling Point shall be start at Main Gate when pump will receive at site (Approx. within 30 days Period).
Long term (1-2 years)					
1.	Upgradation of STP to SBR based technology	JDA	JDA	Achieve prescribed discharge standards	The consultancy firm has been appointed by JDA to prepare Detail Project Report (DPR). Work order copy is being enclosed at Annexure-XI . Although, firm has submitted Draft report as per NGT norms, which is under consideration.
Regular activity					
1.	Monthly monitoring of STP treatment quality	RSPCB	RSPCB	Provide data for devising a quality improvement plan	For sampling, JDA has already deposited requisite amount of Rs. 30,000.00 to RSPCB vide letter no. D-396 dated 26.08.2022 (Copy Enclosed at Annexure-XII A & B).
2.	Monitoring of THMs	RSPCB	Sampling by RSPCB/third party and expenses to be borne by JDA	Provide data for optimizing the quality of treatment	RSPCB lab does not have facility for monitoring THMs. Therefore JDA to arrange for testing of THMs from third party.
3.	Maintenance of the conveyance drain for treated wastewater	JDA	JDA & identified agency	No accumulation of the partially treated wastewater & no	In this regard, for regular cleaning of earthen channel, work order has been issued. This is regular process and being maintained by JDA. <i>Work order and GPS Photographs are enclosed at</i>

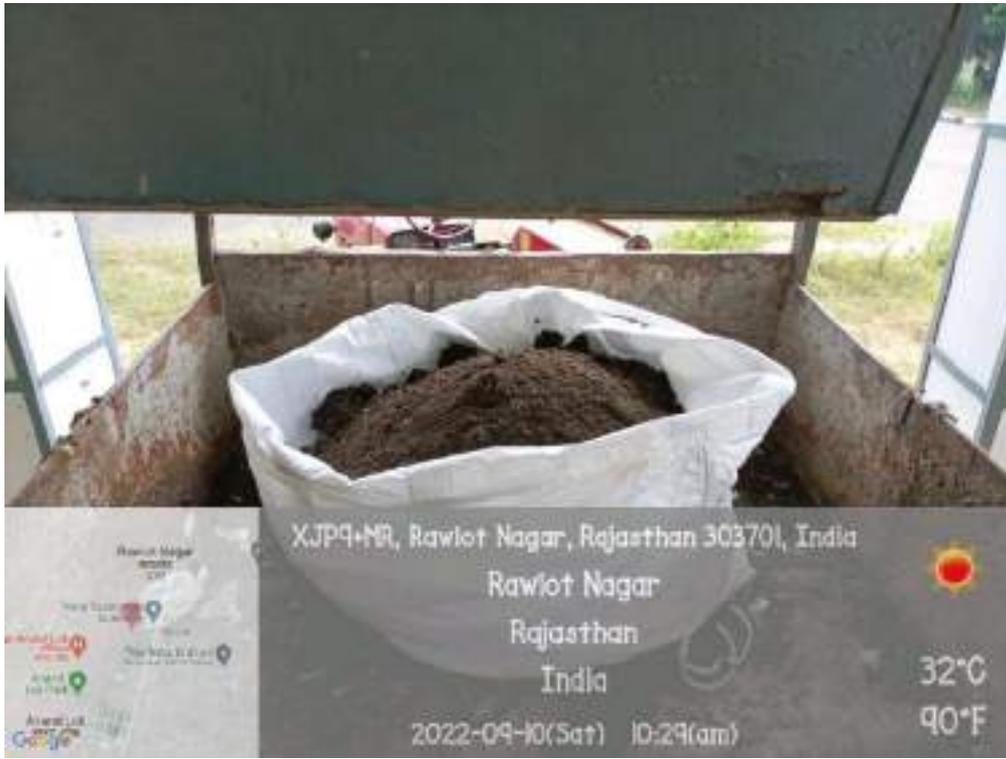
S.N O.	Action required	Responsible Agency	Execution Agency	Probable outcome	Compliance Status
				foul smell	Annexure-IX.
4.	Proper management of the logbooks on details of effluent quantity, chemical use, biogas generation, electricity consumption, etc.	JDA	JDA & identified agency	Correct information shall guide in preparing the effective improvement plan	Record is being maintained by JDA. <i>As desired, 3 months data is being attached at Annexure-XIII (A&B).</i>

NOTE:-It is also submitted that Sludge sample was already sent to Agriculture College, Jobner for testing purpose on dated 28.07.2022 as directed in the meeting held under the Chairmanship of District Collector on dated 27.07.2022. The matter was discussed with Professor Mr. L.R. Yadav, Agriculture College, Jobner for test result. He replied that sample will be tested in month of October when crops shall be start to grow up. Accordingly, sample shall be sent to him again in end of month September as direction received from him.

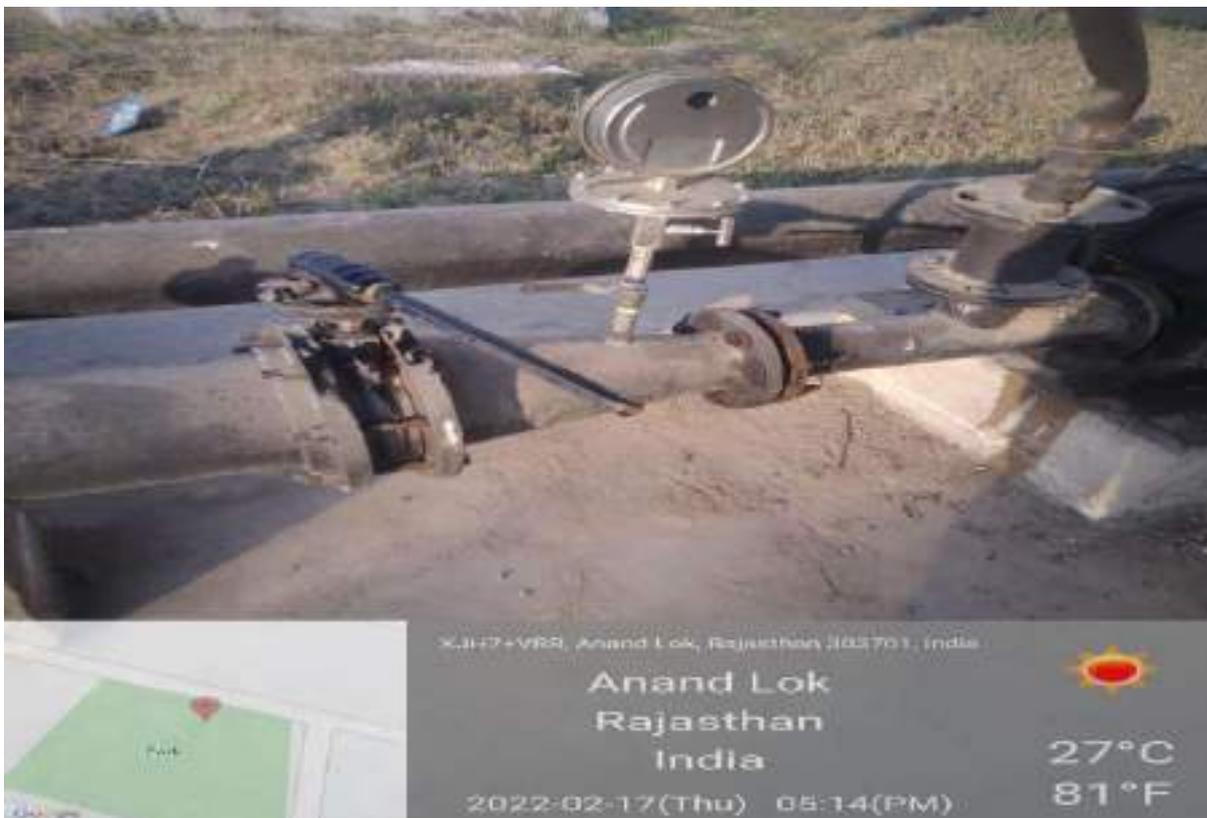
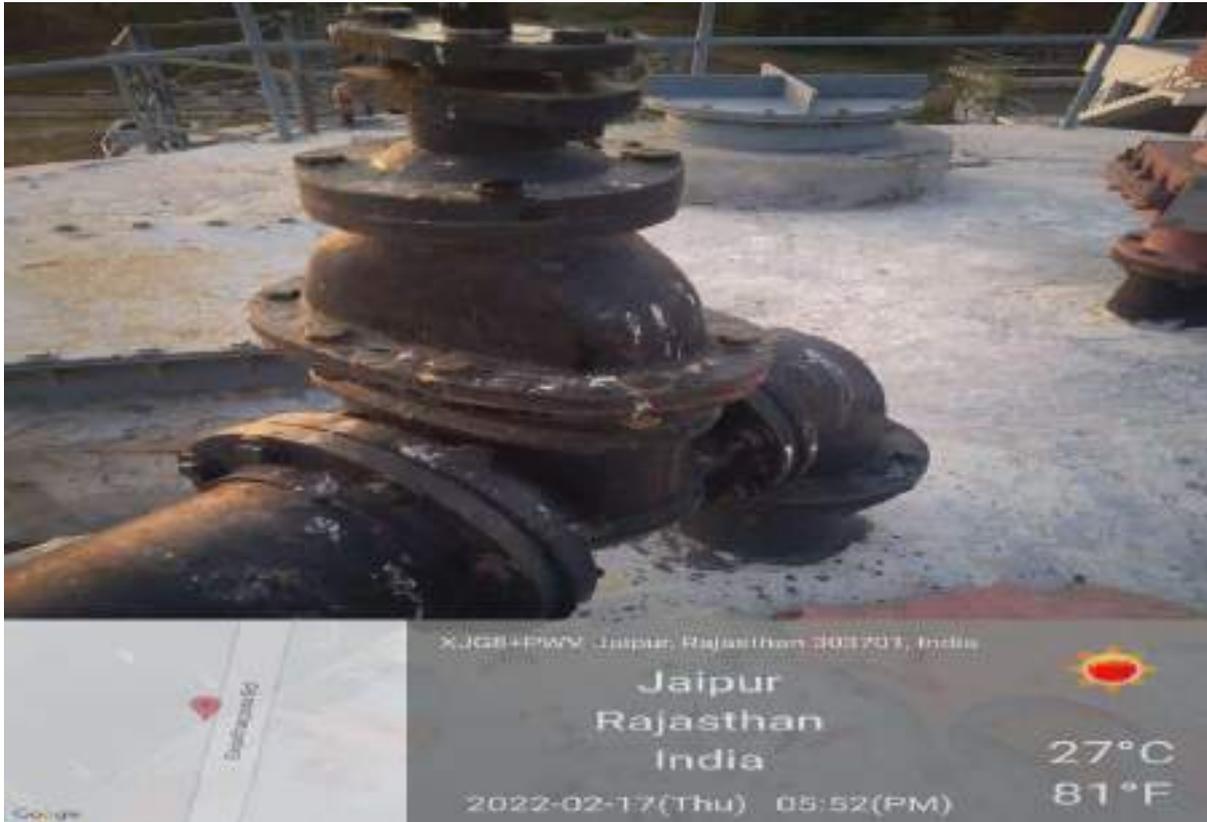
In addition to this, it is also submitted that JDA has appealed before Hon'ble Supreme Court (Bearing Diary Number 25365/2022, dated 16.08.2022 and enclosed at **Annexure-XIV**) against the order passed by Hon'ble NGT order 25.04.2022.



SLUDGE COLLECTION AT 30 MLD STP



RECTIFICATION OF LEAKAGE IN BIO GAS SYSTEM





Working Sensors and Flow Meters



Inlet Chamber Level Meter



Raw Sewage Sump Level Sensor



Parshal Flume Flow Meter



Fine Screen Level Sensor



Flow Meter at Treated Outlet



JAIPUR DEVELOPMENT AUTHORITY

No JDA/EE PHE II/WO/2022-2023/Sep/09

Dated:- 13/09/2022

Work Order

M/s Shiv Samota onstruction Co.

25, Maliyo Ka Mohalla, Sawaimedhosinghpura,
Dudu, Jaipur

Sub: Clearing of Sludge filled adjoining of Gajadharpura STP disposed canal under JDA Jurisdiction, Jaipur.

Ref: 1. Your tender dated & NIT no. 06/2022-23

2. Acceptance Letter issued vide no. JDA/EE PHE II/LOA/2022-2023/Sep/07 Dated 09/09/2022

The above said work is being awarded to you on the terms & conditions of the above referred acceptance letter @ 13.00% Above "G" schedule (Based on BSR For : 2016 JDA BSR (Road Works)-2015-2016, 2016 JDA BSR (Carriage of Materials Road)-2015-2016 amounting to Rs. 5,60,621.00/- (Indian Rupee Five Lacs Sixty Thousand Six Hundred Twenty One Only) without any condition on behalf of Authority. Restricted to A/F amount of Rs.3,57,46,009.00/-.

You are directed to start the work under the instruction of the Assistant Engineer and complete the same within a period of 3 Months. The stipulated date of commencement and completion, shall be reckoned as under:-

1. Stipulated date of commencement : 20/09/2022
2. Stipulated date of completion : 19/12/2022

The work has been sanctioned administrative and financially vide No. JDA/EE PHE II/A & F/2017-2018/Jan/185 Dated 17/01/2018 for Rs.3,57,46,009.00/-, Job No. JDA/EE PHE II/A & F/2017-2018/Jan/185

Technical Sanction of the above work has been conveyed for Rs.5,15,970.00/- vide his no. JDA/EE PHE II/YS/2022-2023/Ju/03 Dated 26/07/2022 by the Manohar Lal Jangid-Executive Engineer - Executive Engineer PHE II.

On submission of agreement with Non Judicial Stamp worth Rs.1,000.00/- duly signed, the Agreement no. 09/2022-2023 has been allotted for this work. You should also display the board of JDA at work at site while work is in progress.

You shall require registration of workers under the Building and Other Construction workers (Regulation of Employment & Condition of Services) Act 1996 & extension of benefits to such workers under this act.

Encl.: Copy of Schedule 'G'.

Remark : The work shall be executed within the sanctioned amount of Rs. 515970.00.

(Manohar Lal Jangid)
Executive Engineer PHE II

CC To:

Director (Eng.) III, JDA, Jaipur Additional
Chief Engineer-I, JDA, Jaipur
Superintendent Engineer-X, JDA, Jaipur Sr.
Account Officer, JDA, Jaipur
Assistant Engineer/Junior Engineer, PHE II, JDA, Jaipur

(Manohar Lal Jangid)
Executive Engineer PHE II

(Handwritten signature)



No.JDA/EE PHE II/WO/2021-2022/Mar/10

Dated:- 29/03/2022

Work Order
ItemRate

M/s PT Ecological Services Pvt. Ltd,
104/105, Kingston Tower,
Opp. Old Viva College, 90 FT Road,
Virar (West) Dist. Thane,
Maharashtra - 401303

Sub: Supply, installation & Maintenance of Online Continuous Effluent Monitoring System (OCEMS)
- i.e. pH, BOD, COD, TSS & Flow along with data transfer to CPCB & RSPCB server for running 8 STPs under I/II Zone & 1 no in Housing I/II zone for Outlet.

Ref: 1. Your tender dated & NIT no. 06/2021-22

2. Acceptance Letter issued vide no. JDA/EE PHE II/LOA/2021-2022/Mar/08 Dated 14/03/2022

The above said work is being awarded to you on the terms & conditions of the above referred acceptance letter and Non BSR Item detail As given Below :-

SrNo.	Item Description	Quantity	Unit	Rate	Amount
1	Annual Maintenance Contract after warranty				
1.1	2nd Year AMC AMC for Water Quality Monitor (BOD, COD, TSS, PH & Flow meter) for outlet 1- Four service visit in year which will be scheduled 2- Calibration two times in a year 3- Data transfer to CPCB & SPCB 4- Consumable.	9.000	Job	5,900.00	53,100.00
1.2	3rd Year AMC AMC for Water Quality Monitor (BOD, COD, TSS, PH & Flow meter) for outlet 1- Four service visit in year which will be scheduled 2- Calibration two times in a year 3- Data transfer to CPCB & SPCB 4- Consumables	9.000	Job	8,850.00	79,650.00
1.3	4th Year AMC AMC for Water Quality Monitor (BOD, COD, TSS, PH & Flow meter) for outlet 1- Four service visit in year which will be scheduled 2- Calibration two times in a year 3- Data transfer to CPCB & SPCB 4- Consumables	9.000	Job	8,850.00	79,650.00
1.4	5th Year AMC AMC for Water Quality Monitor (BOD, COD, TSS, PH & Flow meter) for outlet 1- Four service visit in year which will be scheduled 2- Calibration two times in a year 3- Data transfer to CPCB & SPCB 4- Consumables	9.000	Job	11,800.00	1,06,200.00
2	MIQ/TC 2020 3G-C6 Local Display Unit. Multi-parameter measuring converter, for connecting to 20 IQ sensors. Scope of supply: MIQ/TC 2020 3G	9.000	Job	47,200.00	4,24,800.00



	TS S PROBE) Optical COD, BOD, TSS, probe (60 mm) with spectral processing of the UV- VIS range, for measurement in the inlet/effluent/ BNR part of municipal wastewater treatment plants with integrated ultrasonic cleaning. Supplied with multifunctional side and Shock-Absorption-Rings. Measuring Range BOD: (0-500 mg/l) COD: (0-800 mg/l) TSS: (0-900 mg/l)				
4	Sensolyte 700 IQ/SET. (pH Probe.) Robust digital pH/O RP sensor (Sensolyte 700 IQ) including pH electrode (Sensolyte/SEA) and 7 m (23 ft) sensor adapter cable (SA CIQ-7.0) (pH Sensor with 7-meter Integrated cable) Temperature is integrated by default Measuring Range: PH: 0-14	9,000	Job	35,257.00	3,17,313.00
5	SACIQ-7.0 Sensor adapter cable for all IQ sensors, with IP 68 waterproof connection to the IQ Sensor Net system. Cable length 7 meters	9,000	Job	1,037.00	9,333.00
6	Wireless Modem with GSM Facility	9,000	Job	5,757.00	51,813.00
7	Rittal Panel for controller IP 65 Grade	9,000	Job	11,657.00	1,04,913.00
8	Flowmeter Electromagnetic Size: 6" Pipeline	9,000	Job	45,877.00	4,12,893.00
9	UPS + Power Cables	9,000	Job	17,557.00	1,58,013.00
10	Fabrication Material + Labour + Others Expensive	9,000	Job	5,757.00	51,813.00
11	Installation Charges	9,000	Job	11,657.00	1,04,913.00
				TOTAL:	69,55,137.00

Total amounting to Rs.69,55,137.00/- (Indian Rupee Sixty Nine Lacs Fifty Five Thousand One Hundred Thirty Seven Only) without any condition on behalf of Authority, Restricted to A/F amount of Rs.3,65,09,200.00/-.

You are directed to start the work under the instruction of the Assistant Engineer and complete the same within a period of 6 Months. The stipulated date of commencement and completion, shall be reckoned as under:-

1. Stipulated date of commencement : 05/04/2022
2. Stipulated date of completion : 04/10/2022

The work has been sanctioned administrative and financially vide No. JDA/EE PHE I/A & F/2021-2022/Nov/271 Dated 22/11/2021 for Rs.3,65,09,200.00/-, Job No. JDA/EE PHE I/A & F/2021-2022/Nov/271.

Technical Sanction of the above work has been conveyed for Rs.2,33,70,853.00/- vide his no. JDA/Dir-I/TS/2021-2022/Dec/36 Dated 03/12/2021 by the Ashok kumar Choudhary-Director - Director Engineering I.

On submission of agreement with Non Judicial Stamp worth Rs.10,433.00/- duly signed, the Agreement no. 10/2021-22 has been allotted for this work. You should also display the board of JDA at work at site while work is in progress.

You shall require registration of workers under the Building and Other Construction workers (Regulation of Employment & Condition of Services) Act 1996 & extension of benefits to such workers under this act.

Encl.: Copy of Schedule 'G'.



No.	Particular	Item No.	Amount (In Rs.)
1.	Part-A (Construction/Installation work)	2 to 11	66,36,537.00
2.	Part-B (O&M work)	1.11 to 1.4	3,18,600.00
	Total		69,55,137.00

Note:- O&M work shall be start after finalization of construction/Installation work.

(Manohar Lal Jangid)
 Executive Engineer PHE II
 Jaipur Development Authority
 JAIPUR

CC To:

- Honorable MP.....
- Honorable MLA.....
- Director (Eng.)-III, JDA, Jaipur
- Additional Chief Engineer-I, JDA, Jaipur
- Superintendent Engineer-X, JDA, Jaipur
- Sr. Account Officer, JDA, Jaipur
- Guard File

Received
 29/03/22

(Manohar Lal Jangid)
 Executive Engineer PHE II
 Jaipur Development Authority
 JAIPUR

FACTORY ACCEPTANCE TEST

Customer Name	JAIPUR DEVELOPMENT AUTHORITY
HGS No	OP-04-22-CU9115

Sr No.	Description	Remark
1	Wire Continuity Check	OK
2	SMPS On, voltage Check	OK
3	LED Indication Check	OK
4	RS-485 Modbus Communication Check	OK
5	Sensor PCB 12V	OK
6	DDT communication and Program upload	OK
7	HMI communication and Program upload	OK
8	Setting update on HMI	OK
9	Setting update on OPM-300 operation Unit	OK
10	Range Selection set	OK
11	Interface Panel Quality	GOOD
	* Packing And Forward Check	
12	Panel Lock Check	OK
13	Sensor Calibration	DONE
14	Identification Tag	OK

Inspection Done By



Jayesh Sankhe
14/05/2022

JAYESH SANKHE
DATE:14/05/2022

PRODUCT CERTIFICATION

Name: OPM 300 UV- VIS SPECTROPHOTOMETER ANALYSER

Model: OPM300

HGS NO: R981336

Date: 10/05/2022

QC: **Passed**



This Product has been tested and approved

OPM 300 Analyzer Calibration report

Name: UV-VIS SPECTROMETER

Model: OPM 300

Measurement: 0~300mg/L (COD) 0~300mg/L (BOD) 0~100mg/L (TSS)

Sr. NO.: R981336

Ambient Temp.: 28°C

Method 415.3 - Determination of Total Organic Carbon & Specific UV

Absorbance at 254 nm in Source Water & Drinking Water.

Method 180.1: - Determination of Turbidity by Nephelometry.

1. Appearance requirement:

- a. The components should have reliable connection, no obvious defects, flexible operation buttons and accurate location.
- b. The display should have clear scale and digital, firm coloring, not affect reading
- c. All Nameplates and marks should be clear and durable If it is qualified: Yes

2. Functional requirement:

- a. Analyzer should be able to measure the concentration of the measured liquid, and record process, display the density value.
- b. Analyzer should have the function of zero, span calibration and alarm
- c. Analyzer Controller should be equipped with the appropriate signal output interface with RS-485 Modbus communication; Modbus communication can be used normally. If it is qualified: Yes

3. Linearity test

A. Use zero sample (distilled water) and span standard sample (300mg/L COD, 100mg/L TSS turbidity) to do zero and span calibration for analyzer.

COD calibration	Zero sample	Span sample
Measured value after Calibration (mg/L)	0.45	300.85
TSS calibration	Zero Sample	Span sample
Measured value after Calibration (mg/L)	0.32	100.20

CIN NO : U31909MH2019PTC334000

B Linearity Error:-

COD	300 mg/L	200 mg/L	100 mg/L	50 mg/L	0 mg/ L
Theoretical value	300.00	200.00	100.00	50.00	0.00
Measured Value	300.89	201.06	100.85	50.55	0.75
ΔA	0.89	1.06	0.85	0.55	0.75
ΔA Max	4.58				
Linearity error	0.916 % F. S				
TSS	100 mg/L	80mg/L	60mg/L	40mg/L	0 mg/ L
Theoretical value	100.00	80.00	60.00	40.00	0.00
Measured Value	100.23	80.49	61.07	41.25	0.79
ΔA	0.23	0.49	1.07	1.25	0.79
ΔA Max	3.83				
Linearity Error	0.766 % F. S				

CIN NO : U31909MH2019PTC334000

Regd. Office : Unit II SC Space, Vasai, Mumbai, Maharashtra - 401305

Toll Free No : 1800 210 2108 Website : www.opruss.in Email : info@opruss.in

4. Repeatability Test

Under the same condition, use 300mg/L COD (100 mg/L TSS) to test several times and obtain value They are as follows: -

COD	1 ST	2nd	3rd	4 th	5th	6th
Indicating value (mg/L)	300.41	300.77	300.11	300.20	300.47	300.28
Standard error	2.24					
Repeatability error	0.37 % F. S					
TSS	1 ST	2nd	3rd	4 th	5th	6th
Indicating value (mg/L)	100.20	100.45	100.36	100.13	100.29	100.47
Standard error	1.90					
Repeatability error	0.316 % F. S					

5. Zero drift test

Place zero solution 24 hours in advance, and place zero solution again after 24 hours. Record the Measured value when the value is stable

COD zero Sample	1 st	2 nd
Measured value after Calibration (mg/L)	0.14	0.25
Zero Drift	1 % FS/24 Hr.	
TSS Zero Sample	1 st	2 nd
Measured value after Calibration (mg/L)	0.24	0.32
Zero Drift	1 % FS/24 Hr.	

6. Span drift test

Place 300mg/L COD (100mg/L TSS) 24 hours in advance, and place standard sample again after 24 hours. Record the Measured value when the value is stable.

COD Standard Sample	1 st	2 nd
Measured value after Calibration (mg/L)	300.09	300.11
Span Drift	1 % FS/24 Hr.	
TSS Standard Sample	1 st	2 nd
Measured value after Calibration (mg/L)	100.23	100.33
Span Drift	1 % FS/24 Hr.	

Inspected by: Sahil Babar

Verified by: Rahul Manure

Date: 12-05-2022



CIN NO : U31909MH2019PTC334000

Calibration certificate

Probe	Serial number	Software version	Production date
OPM pH	P981306	<u>V2.2</u>	<u>11th APRIL, 2022</u>

Here with we certify that the above probe has been tested and adheres to technical specification listed in document.

EPA Method 150.2 Determination of Potential of Hydrogen by Potentiometric

Standard	Tested/adjusted	Criterion/Tolerance	Passed
4.00	3.984	4.00±1%	Yes
6.86	6.756	6.86±1%	Yes
9.18	9.156	9.18±1%	Yes

Performed by.

Name: - Sahil H. Babar

Date: - 14/04/2022



CIN NO : U31909MH2019PTC334000



Innovating Level Controls Since 1984

Pune Techtrol Private Limited

J-52/7, MIDC, Bhosari, Pune - 411026, India

+91-20-67313600

ho@punetechtrol.com

TEST REPORT

CUSTOMER NAME :	PT ECOLOGICAL SERVICES PVT LTD.
P.O.NO :	PO-00047, DATE- 01/06/2022
W.O.NO :	11045.000
PRODUCT :	TECHTROL ULTRASONIC OPEN CHANNEL FLOW SYSTEM
MODEL NO. :	TOCF - 1RRU
SR.NO'S :	222308429 TO 222308430
QTY :	02 Nos.
SPECIFICATIONS :	
TRANSMITTER	ULTRATROL-1
ENCLOSURE :	ABS with polycarbonate window
PROCESS CONN.	PP x 3"NB,ANSI 150# Flange
MEASURING RANGE:	0.4 to 5 mtr
SUPPLY :	24V DC (From TOCF controller)
CONTROLLER	
ENCLOSURE :	CRCA , Panel mtd.
INDICATION :	2 Line X 16 Character Dot Matrix Backlit LCD Display
SUPPLY :	90 TO 270 VAC
INPUT :	4-20mA
OUTPUT :	4 X Relay(SPDT),Rating - 5A,250VAC
SERIAL COMM:	RS-485 Modbus
SPECIAL FEATURE:	Retransmission 4-20mA
INSPECTION CUM TEST:	
1.VISUAL :	No surface defect found.
2.OPERATION:	Found satisfactory
3.CHANGE OVER CONTACTS:	NO-P-NC changeover found satisfactory
4.INSULATION RESISTANCE:	Checked at 500V DC and found above 150M OHMS.
REMARK:	1. From above observations products found acceptable.
FOR PUNE TECHTROL PVT.LTD.	
INSPECTION DEPT.	
24-Jun-2022	



Pune Techtrol Private Limited

1-52/7, MIDC, Bhosari, Pune - 411026, India

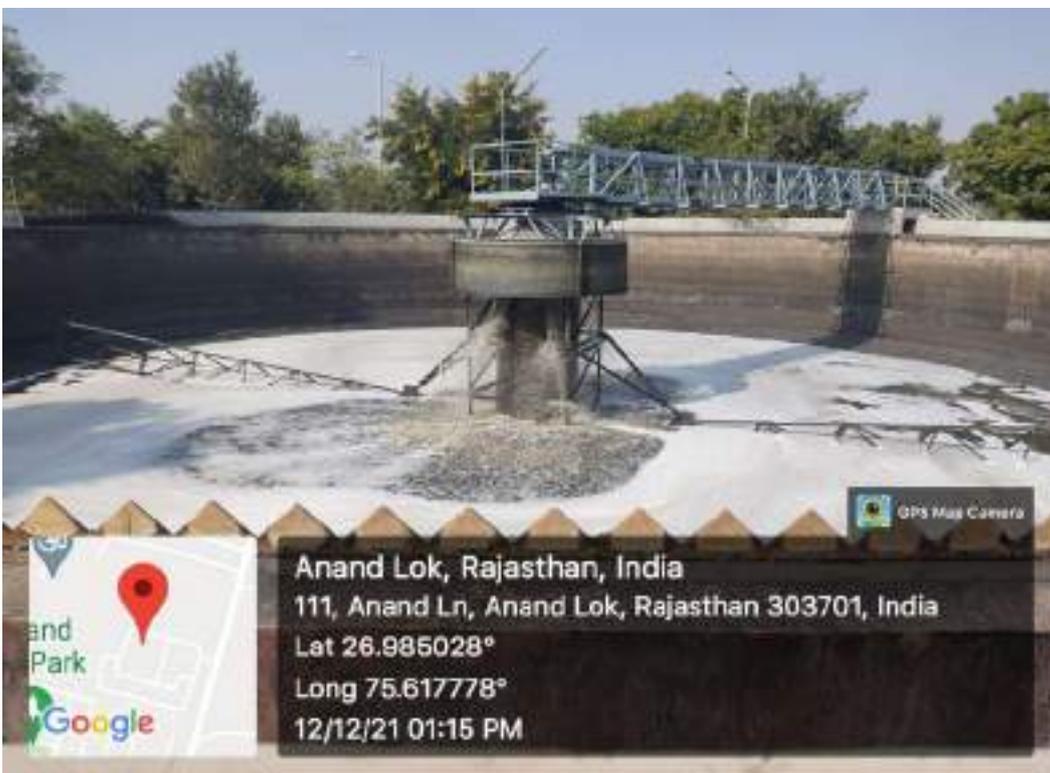
+91-20-67313600

ho@punetechtrol.com

TEST REPORT

CUSTOMER NAME :	PT ECOLOGICAL SERVICES PVT LTD.
P.O.NO :	PO-00065, DATE- 30/06/2022
W.O.NO :	11550.000
PRODUCT :	TECHTROL ULTRASONIC OPEN CHANNEL FLOW SYSTEM
MODEL NO. :	TOCF - 1RRU
SR.NO'S :	222310991
QTY :	01 No.
SPECIFICATIONS :	
TRANSMITTER	ULTRATROL-1
ENCLOSURE :	ABS with polycarbonate window
PROCESS CONN.	PP x 3"NB,ANSI 150# Flange
MEASURING RANGE:	0.4 to 5 mtr
SUPPLY :	24V DC (From TOCF controller)
CONTROLLER	
ENCLOSURE :	CRCA , Panel mtd.
INDICATION :	2 Line X 16 Character Dot Matrix Backlit LCD Display
SUPPLY :	90 TO 270 VAC
INPUT :	4-20mA
OUTPUT :	4 X Relay(SPDT),Rating - 5A,250VAC
SERIAL COMM:	RS-485 Modbus
SPECIAL FEATURE:	Retransmission 4-20mA
INSPECTION CUM TEST:	
1.VISUAL :	No surface defect found.
2.OPERATION:	Found satisfactory
3.CHANGE OVER CONTACTS:	NO-P-NC changeover found satisfactory
4.INSULATION RESISTANCE:	Checked at 500V DC and found above 150M OHMS.
REMARK:	1. From above observations products found acceptable.
FOR PUNE TECHTROL PVT.LTD.	
	
INSPECTION DEPT.	
13-Jul-2022	

Cleaning of PST, SST and Aeration Tank





Chlorine Dosing



Date	Booster Group	Time	Booster Current (ppm)	Flow in (Hour)	Total chlorine Dosing / Hour in (Kg)	Total chlorine Dosing / Day in (Kg)	Total Flow (MLD)	Operator	Plant Industry	Remarks
20-6-2022	1	ON	7:00Am	11:30Am	0.5	4.20	2.25	Blavf	Blavf	Blavf
	2	OFF	7:00Am	11:30Am	0.5	3.20	1.66			
	3	ON	7:00Am	11:30Am	0.5	1.10	0.58			
	✓	ON	7:00Am	11:30Am	0.5	3.20	1.75			
	✓	ON	7:00Am	11:30Am	0.5	1.50	0.91			
	✓	ON	7:00Am	11:30Am	0.5	2.50	1.41			
	✓	ON	7:00Am	11:30Am	0.5	2.50	1.91			
	✓	ON	7:00Am	11:30Am	0.5	3.0	1.5			
	✓	ON	7:00Am	11:30Am	0.5	3.0	1.5			
	✓	ON	7:00Am	11:30Am	0.5	1.40	0.83			
21-6-2022	1	ON	7:00Am	11:30Am	0.5	2.50	1.41	Blavf	Blavf	Blavf
	2	OFF	7:00Am	11:30Am	0.5	2.50	1.41			
	3	ON	7:00Am	11:30Am	0.5	1.40	0.83			
	✓	ON	7:00Am	11:30Am	0.5	3.20	1.75			
	✓	ON	7:00Am	11:30Am	0.5	1.45	0.84			
	✓	ON	7:00Am	11:30Am	0.5	2.45	1.37			
	✓	ON	7:00Am	11:30Am	0.5	2.50	1.41			
	✓	ON	7:00Am	11:30Am	0.5	3.0	1.5			
	✓	ON	7:00Am	11:30Am	0.5	3.0	1.5			
	✓	ON	7:00Am	11:30Am	0.5	Scmin	0.41			
22-6-2022	1	ON	7:00Am	10:00Am	0.5	3.0	1.5	Blavf	Blavf	Blavf
	2	OFF	7:00Am	10:00Am	0.5	2.25	1.20			
	3	ON	7:00Am	10:00Am	0.5	2.15	1.62			
	✓	ON	7:00Am	10:00Am	0.5	1.20	0.66			
	✓	ON	7:00Am	10:00Am	0.5	1.20	0.66			
	✓	ON	7:00Am	10:00Am	0.5	1.20	0.66			
	✓	ON	7:00Am	10:00Am	0.5	1.20	0.66			
	✓	ON	7:00Am	10:00Am	0.5	1.20	0.66			
	✓	ON	7:00Am	10:00Am	0.5	1.20	0.66			
	✓	ON	7:00Am	10:00Am	0.5	1.20	0.66			
					11.96	25.60				
					11.88	25.30				

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DATE: / /

Date	Booster Pump			Time		Booster chlorine Hour (CCM)	Per shift in (Hours)	Total chlorine Dosing / Hour in (Kg)	Total chlorine daily Dose in (Kg)	Total Flow MLD	Operator	Plant Manager	Remark
	1	2	3	on	off								
23-6-2022	✓			7:00Am	10:00Am	0.5	3.0	1.5	11.94	25.45	Bhavt.	[Signature]	
		✓		10:00Am	12:10Pm	0.5	2.10	1.08					
			✓	12:10Pm	3:40Pm	0.5	3.30	1.75					
		✓		3:40Pm	4:45Pm	0.5	1.05	0.54					
			✓	4:45Pm	7:35Pm	0.5	2.50	1.41					
		✓		7:35Pm	9:00Pm	0.5	1.25	0.70					
			✓	9:00Pm	12:10Am	0.5	3.10	1.58					
		✓		12:10Am	3:20Am	0.5	2.50	1.41					
			✓	3:20Am	6:00Am	0.5	3.0	1.5					
		✓		6:00Am	6:45Am	0.5	45min	0.34					
24-6-2022	✓			7:00Am	10:00Am	0.5	2.0	1.5	11.88	25.25	Bhavt.	[Signature]	
		✓		10:00Am	11:40Am	0.5	1.40	0.83					
			✓	11:40Am	2:50Pm	0.5	3.10	1.58					
		✓		2:50Pm	4:20Pm	0.5	1.70	0.75					
			✓	4:20Pm	7:10Pm	0.5	2.50	1.41					
		✓		7:10Pm	9:25Pm	0.5	2.15	1.12					
			✓	9:25Pm	12:20Am	0.5	2.55	1.43					
		✓		12:20Am	2:00Am	0.5	2.10	1.33					
			✓	2:00Am	6:00Am	0.5	7.0	1.5					
		✓		6:00Am	6:50Am	0.5	50min	0.41					
5-6-2022	✓			7:00Am	10:00Am	0.5	3.0	1.5	11.97	25.45	Bhavt.	[Signature]	
		✓		10:00Am	12:20Pm	0.5	2.20	1.18					
			✓	12:20Pm	2:10Pm	0.5	2.50	1.41					
		✓		2:10Pm	5:10Pm	0.5	2.0	1.0					
			✓	5:10Pm	8:30Pm	0.5	3.20	1.61					
		✓		8:30Pm	10:20Pm	0.5	1.50	0.91					
			✓	10:20Pm	1:00Am	0.5	2.40	1.32					
		✓		1:00Am	4:00Am	0.5	3.0	1.5					
			✓	4:00Am	7:00Am	0.5	7.0	1.5					

Date	Ganster Pump			Times		Ganster PUMP (PPM)	REVOLUT in (hours)	Total Clean Dosing / Hour in (KG)	Total Clean Dosing / Day in (KG)	Total Flow MLD	Operator	Plant In-charge	Remarks	
	1	2	3	ON	OFF									
26-6-2022	✓			7:00Am	10:00Am	0.5	3.0	1.5						
			✓	10:00Am	18:20Am	0.5	2.20	1.16						
		✓		18:20Am	21:10Am	0.5	2.50	1.41						
			✓	21:10Am	4:30Am	0.5	1.20	0.62						
		✓		4:30Am	7:40Am	1.05	3.10	1.58	11.5		25.32			
			✓	7:40Am	9:10Am	0.5	1.30	0.75						
			✓	9:10Am	12:20Am	0.5	3.10	1.58						
			✓	12:20Am	3:00Am	1.05	2.40	1.33						
			✓	3:00Am	6:40Am	0.5	3.40	1.83						
		✓		7:00Am	10:00Am	0.5	3.0	1.5						
			✓	10:00Am	11:40Am	0.5	1.40	0.83						
	27-6-2022			✓	11:40Am	2:00Am	0.5	3.10	1.58					
			✓	2:00Am	4:20Am	0.5	1.30	0.75						
			✓	4:20Am	7:10Am	0.5	2.50	1.41	11.97		25.40			
			✓	7:10Am	8:20Am	0.5	1.20	0.62						
			✓	8:20Am	11:20Am	0.5	2.50	1.41						
			✓	11:20Am	2:00Am	0.5	2.40	1.33						
			✓	2:00Am	5:00Am	0.5	3.0	1.5						
			✓	5:00Am	7:00Am	0.5	2.0	1.0						
			✓	7:00Am	10:00Am	0.5	3.0	1.5						
			✓	10:00Am	11:40Am	0.5	1.40	0.83						
			✓	11:40Am	2:50Am	0.5	3.10	1.58						
28-6-2022				✓	2:50Am	5:00Am	0.5	50min	0.41					
			✓	5:00Am	7:40Am	0.5	2.55	1.45						
			✓	7:40Am	10:30Am	0.5	3.10	1.58	11.87		25.33			
			✓	10:30Am	1:00Am	0.5	2.30	1.25						
			✓	1:00Am	4:00Am	0.5	3.0	1.5						
			✓	4:00Am	6:50Am	0.5	2.50	1.41						

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Date	Booster Camp			Time		Booster class in Hrs	Booster in (Hrs)	Total class in Booster / Hrs (in Hrs)	Total class in Booster / Hrs (in Hrs)	Total Film mtr	Operator	Lead man	Remarks
	1	2	3	on	off								
29-6-2022	✓		✓	7:00Am	10:00Am	0.5	3.0	1.5			Blair		
		✓		10:00Am	11:00Am	0.5	1.5	0.66					
		✓		11:00Am	2:30Pm	0.5	2.10	1.58					
			✓	2:30Pm	4:10Pm	0.5	1.40	0.83				Blair	
		✓		4:10Pm	7:30Pm	0.5	3.25	1.90	11.96			Blair	
			✓	7:30Pm	9:00Pm	0.5	1.45	0.87					
		✓		9:00Pm	12:10Am	0.5	2.50	1.41				Samson	
			✓	12:10Am	3:00Am	0.5	4.0	2.0					
		✓		3:00Am	7:00Am	0.5	3.0	1.5				Blair	
			✓	7:00Am	10:00Am	0.5	1.45	0.83					
		✓		10:00Am	1:45Am	0.5	3.0	1.5					
			✓	1:45Am	2:45Pm	0.5	1.45	0.83					
	✓		2:45Pm	4:00Pm	0.5	1.45	0.83						
		✓	4:00Pm	7:40Pm	0.5	3.40	1.83	11.58			Blair		
	✓		7:40Pm	9:10Pm	0.5	1.30	0.75						
		✓	9:10Pm	12:10Am	0.5	3.0	1.5						
	✓		12:10Am	3:00Am	0.5	2.50	1.41						
		✓	3:00Am	7:00Am	0.5	4.0	2.0				Blair		

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Date	Booster Run	Time	Quarantine Hour (PM)	Re-Shift in (hour)	Total cleaning duty/ hour in (Kwh)	Total cleaning duty/ day in (Kwh)	Total Flow MUD	Operator	Plant Technology	Remarks
1-7-2012	✓	7:00Am	0.5	2.20	1.16	11.66	28.27	Rudolph	Cater	
	✓	9:20Am	0.5	3.30	1.95					
	✓	12:50Pm	0.5	4.00	0.33					
	✓	1:30Pm	0.5	3.20	1.66					
	✓	4:30Pm	0.5	4.00	0.77					
	✓	5:30Pm	0.5	2.55	1.45					
	✓	8:30Pm	0.5	5.00	0.41					
	✓	9:20Pm	0.5	3.10	1.58					
	✓	12:20Pm	0.5	2.30	1.25					
	✓	3:00Am	0.5	2.0	1.0					
2-7-2012	✓	7:00Am	0.5	2.0	1.0	11.97	27.73	Rudolph	Cater	
	✓	9:00Am	0.5	3.20	1.66					
	✓	10:20Am	0.5	2.10	1.58					
	✓	1:30Pm	0.5	4.00	0.33					
	✓	2:10Pm	0.5	3.10	1.58					
	✓	5:20Pm	0.5	1.0	0.5					
	✓	6:20Pm	0.5	3.10	1.58					
	✓	9:20Pm	0.5	1.0	0.5					
	✓	10:30Pm	0.5	1.0	0.5					
	✓	10:30Pm	0.5	2.40	1.33					
3-7-2012	✓	4:10Am	0.5	2.50	1.41	11.97	27.15	Rudolph	Cater	
	✓	7:00Am	0.5	3.0	1.5					
	✓	9:30Am	0.5	2.30	1.25					
	✓	12:40Pm	0.5	3.10	1.58					
	✓	1:10Pm	0.5	2.10	1.58					
	✓	4:20Pm	0.5	3.10	1.58					
	✓	5:30Pm	0.5	2.10	1.58					
	✓	8:30Pm	0.5	3.10	1.58					
	✓	9:20Pm	0.5	2.10	1.58					
	✓	10:30Pm	0.5	2.40	1.33					

Date	Booster Group	Time		Crewing Hours (CRH)	Height in (meters)	Total cleaning Daily/ Hour in (K.G)	Total cleaning Daily/ Hour in (K.G)	Total Flow M3/D	Operator	Plant Tenderage	Remarks
		on	off								
4-9-2022	✓	✓	✓	7:00Am	10:00Am	0.5	3.0	1.5	Kalyan	[Signature]	
		✓	✓	10:00Am	10:45Am	0.5	1.45	0.87			
		✓	✓	10:45Am	2:30Pm	0.5	2.50	1.41			
		✓	✓	2:30Pm	3:45Pm	0.5	1.05	0.54			
		✓	✓	3:45Pm	6:55Pm	0.5	3.10	1.58			
		✓	✓	6:55Pm	7:45Pm	0.5	SCMh	0.45			
		✓	✓	7:45Pm	10:45Pm	0.5	2.35	1.45			
		✓	✓	10:45Pm	1:00Am	0.5	2.20	1.16			
		✓	✓	1:00Am	4:00Am	0.5	3.0	1.5			
		✓	✓	4:00Am	7:00Am	0.5	3.0	1.5			
		✓	✓	7:00Am	10:00Am	0.5	3.0	1.5			
		✓	✓	10:00Am	11:50Am	0.5	1.50	0.51			
5-9-2022	✓	✓	✓	11:50Am	2:50Pm	0.5	3.0	1.5	Kalyan	[Signature]	
		✓	✓	2:50Pm	3:30Pm	0.5	40m/h	0.33			
		✓	✓	3:30Pm	6:55Pm	0.5	3.20	1.62			
		✓	✓	6:55Pm	8:20Pm	0.5	1.30	1.25			
		✓	✓	8:20Pm	11:20Pm	0.5	3.0	1.5			
		✓	✓	11:20Pm	2:00Am	0.5	2.40	1.33			
		✓	✓	2:00Am	5:00Am	0.5	3.0	1.5			
		✓	✓	5:00Am	7:00Am	0.5	2.10	1.0			
		✓	✓	7:00Am	10:00Am	0.5	3.0	1.5			
		✓	✓	10:00Am	12:15Pm	0.5	2.5	1.12			
		✓	✓	12:15Pm	3:00Pm	0.5	2.05	1.54			
		✓	✓	3:00Pm	4:30Pm	0.5	1.10	0.58			
6-9-2022	✓	✓	✓	4:30Pm	7:45Pm	0.5	3.10	1.58	Srinivas	[Signature]	
		✓	✓	7:45Pm	8:45Pm	0.5	1.0	0.5			
		✓	✓	8:45Pm	11:30Pm	0.5	2.50	1.41			
		✓	✓	11:30Pm	2:00Am	0.5	2.30	1.05			
		✓	✓	2:00Am	5:00Am	0.5	3.0	1.5			
		✓	✓	5:00Am	7:00Am	0.5	2.0	1.0			

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Date	Rooster Group			Time		Rooster cleaning (Hrs)	Feeding (Hrs)	Total cleaning Day/Week in (kg)	Total cleaning Day/Week in (kg)	Total Farm MLD	Per shift operations	Plant Manager	Remarks
	1	2	3	on	off								
2-7-2022	✓	✓	✓	7:00Am	10:00Am	0.5	3.0	1.5					
				10:00Am	10:45Am	0.5	1.45	0.84					
				10:45Am	2:30Pm	0.5	2.45	1.37					
				2:30Pm	4:20Pm	0.5	1.50	0.91					
				4:20Pm	7:10Pm	0.5	2.50	1.41					
				7:10Pm	9:30Pm	0.5	2.20	1.16					
				9:30Pm	11:50Pm	0.5	2.20	1.16					
				11:50Pm	2:00Am	0.5	2.10	1.08					
				2:00Am	5:00Am	0.5	3.0	1.5					
				5:00Am	7:00Am	0.5	2.0	1.0					
				7:00Am	10:00Am	0.5	3.0	1.5					
				10:00Am	12:00Pm	0.5	2.20	1.16					
				12:00Pm	3:25Pm	0.5	3.05	1.57					
				3:25Pm	5:10Pm	0.5	1.45	0.84					
				5:10Pm	8:00Pm	0.5	2.50	1.41					
				8:00Pm	9:20Pm	0.5	1.25	0.70					
				9:20Pm	12:10Am	0.5	2.45	1.37					
				12:10Am	3:00Am	0.5	2.50	1.41					
				3:00Am	5:00Am	0.5	2.0	1.0					
				5:00Am	7:00Am	0.5	2.0	1.0					
				7:00Am	10:00Am	0.5	3.0	1.5					
				10:00Am	11:40Am	0.5	1.40	0.83					
				11:40Am	2:50Pm	0.5	2.10	1.58					
				2:50Pm	3:40Pm	0.5	5.00Am	0.41					
				3:40Pm	6:30Pm	0.5	2.55	1.45					
				6:30Pm	8:20Pm	0.5	1.45	0.84					
				8:20Pm	11:20Pm	0.5	3.00	1.5					
				11:20Pm	2:00Am	0.5	2.10	1.37					
				2:00Am	4:00Am	0.5	2.0	1.0					
				4:00Am	7:00Am	0.5	3.0	1.5					
				7:00Am									

Date	Booster Comp	Time	Booster Class (PM)	Permit in (Hour)	Total electric Dist/ Hour in (Kwh)	Total Meter Dist/ Hour in (Kwh)	Total Flow MGD	Operator	Plant Manager	Remark
10-7-2012	✓	7:00Am	10:00Am	2.0	1.5			Rahul Singh		
	✓	10:00Am	11:30Am	1.35	0.73					
	✓	11:30Am	2:45Pm	3.10	1.58					
	✓	2:45Pm	3:30Pm	45min	0.39					
	✓	3:30Pm	6:50Pm	3.20	1.66					
	✓	6:50Pm	7:40Pm	50min	0.41	11.97	25.80	Rabon		
	✓	7:40Pm	10:50Pm	3.10	1.58					
	✓	10:50Pm	1:00Am	2.10	1.08					
	✓	1:00Am	3:00Am	2.0	1.0					
	✓	3:00Am	5:00Am	2.0	1.0					
	✓	5:00Am	7:00Am	2.0	1.0					
11-7-2012	✓	7:00Am	10:00Am	3.0	1.5			Rahul Singh		
	✓	10:00Am	12:30Pm	2.30	1.25					
	✓	12:30Pm	3:40Pm	3.10	1.58					
	✓	3:40Pm	4:30Pm	70min	0.35	11.97	23.92	Rabon		
	✓	4:30Pm	7:50Pm	3.20	1.66					
	✓	7:50Pm	8:40Pm	50min	0.41					
	✓	8:40Pm	11:40Pm	3.0	1.5					
	✓	11:40Pm	2:00Am	2.20	1.16					
	✓	2:00Am	4:00Am	2.0	1.0					
	✓	4:00Am	6:00Am	2.30	1.11					
12-7-2012	✓	7:00Am	10:00Am	3.0	1.5			Rahul Singh		
	✓	10:00Am	1:00Am	3.0	1.5					
	✓	1:00Am	1:20Pm	20min	0.16					
	✓	1:20Pm	4:10Pm	3.10	1.58					
	✓	4:10Pm	5:00Pm	30min	0.25	11.93	25.56	Rabon		
	✓	5:00Pm	3:00Pm	4.0	2.0					
	✓	3:00Pm	11:30Am	2.30	1.25					
	✓	11:30Am	2:00Pm	2.30	1.25					
	✓	2:00Pm	4:00Pm	2.0	1.0					
	✓	4:00Am	7:00Am	3.0	1.5					

Date	Booster Pump	Time	Booster Current (Amps)	Per Shift in (Hours)	Total electricity in (Kwh)	Total electricity cost in (Kwh)	Total Flow MLD	operator	Plant Incharge	Remarks
15-7-2022	1	7:00Am	0.5	2.0	1.0					
	2	8:00Am	0.5	2.40	1.83					
	3	9:00Am	0.5	4.0	2.0					
	✓	10:00Am	0.5	2.00Am	0.16					
	✓	11:00Am	0.5	2.30	1.05	11.99	24.83	Somani		
	✓	12:00Am	0.5	1.0	0.5					
	✓	1:00Am	0.5	2.70	1.25					
	✓	2:00Am	0.5	2.0	1.0					
	✓	3:00Am	0.5	2.0	1.0					
	✓	4:00Am	0.5	4.0	2.0					
	✓	5:00Am	0.5	3.0	1.5					
	✓	6:00Am	0.5	2.0	1.0					
14-7-2022	1	7:00Am	0.5	3.0	1.5					
	2	8:00Am	0.5	2.0	1.0					
	3	9:00Am	0.5	5.0	2.5					
	✓	10:00Am	0.5	2.30	1.25	12.0	24.83	Somani		
	✓	11:00Am	0.5	3.0	1.5					
	✓	12:00Am	0.5	2.0	1.0					
	✓	1:00Am	0.5	3.0	1.5					
	✓	2:00Am	0.5	2.0	1.0					
	✓	3:00Am	0.5	2.0	1.0					
	✓	4:00Am	0.5	4.0	2.0					
	✓	5:00Am	0.5	3.0	1.5					
	✓	6:00Am	0.5	2.0	1.0					
13-7-2022	1	7:00Am	0.5	3.0	1.5					
	2	8:00Am	0.5	2.45	1.37					
	3	9:00Am	0.5	2.15	1.37					
	✓	10:00Am	0.5	3.00Am	0.25					
	✓	11:00Am	0.5	2.40	1.87					
	✓	12:00Am	0.5	4.5Am	0.37	11.99	24.76	Rathod		
	✓	1:00Am	0.5	3.05	1.54					
	✓	2:00Am	0.5	2.30	1.25					
	✓	3:00Am	0.5	2.0	1.0					
	✓	4:00Am	0.5	2.0	1.0					
	✓	5:00Am	0.5	3.0	1.5					
	✓	6:00Am	0.5	2.0	1.0					

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Date	Beater Range	Time	on	off	Booster class in hour after	Run up in hour	Total rotation Daily/ Hour in (Kwh)	Total rotation Daily/ Day in (Kwh)	Total Flow MUD	Operator	Shift	Remarks
16-7-2022	✓	✓	✓	✓	7:00Am	5:00Am	0.5	2.0	1.0	Bhand	Bhand	MD
					9:00Am	12:30Pm	0.5	3.25	1.70			
					12:30Pm	7:40Pm	0.5	7.15	3.62			
					7:40Pm	8:30Pm	0.5	5.00h	0.41			
					8:30Pm	10:00Pm	0.5	1.5	0.75			
					10:00Pm	1:00Am	0.5	3.0	1.5			
					1:00Am	4:00Am	0.5	3.0	1.5			
					4:00Am	7:00Am	0.5	3.0	1.5			
					7:00Am	10:00Am	0.5	3.0	1.5			
					10:00Am	12:30Pm	0.5	2.70	1.25			
					12:30Pm	3:40Pm	0.5	3.10	1.58			
					3:40Pm	4:00Pm	0.5	2.00h	0.12			
17-7-2022	✓	✓	✓	✓	4:00Pm	9:35Pm	0.5	5.35	2.79	Bhand	Bhand	MD
					9:35Pm	12:00Am	0.5	2.25	1.20			
					12:00Am	7:00Am	0.5	3.0	1.5			
					7:00Am	7:00Am	0.5	4.0	2.0			
					7:00Am	10:00Am	0.5	3.0	1.5			
					10:00Am	11:40Am	0.5	1.40	0.82			
					11:40Am	7:10Pm	0.5	7.30	1.75			
					7:10Pm	4:20Pm	0.5	1.10	0.58			
					4:20Pm	7:35Pm	0.5	3.15	1.62			
					7:35Pm	8:20Pm	0.5	4.50h	0.37			
					8:20Pm	11:15Pm	0.5	2.55	1.45			
					11:15Pm	2:00Am	0.5	2.45	1.37			
2:00Am	4:00Am	0.5	2.0	1.0								
4:00Am	7:00Am	0.5	3.0	1.5								
18-7-2022	✓	✓	✓	✓	7:00Am	10:00Am	0.5	3.0	1.5	Bhand	Bhand	MD
					10:00Am	11:40Am	0.5	1.40	0.82			
					11:40Am	7:10Pm	0.5	7.30	1.75			
					7:10Pm	4:20Pm	0.5	1.10	0.58			
					4:20Pm	7:35Pm	0.5	3.15	1.62			
					7:35Pm	8:20Pm	0.5	4.50h	0.37			
					8:20Pm	11:15Pm	0.5	2.55	1.45			
					11:15Pm	2:00Am	0.5	2.45	1.37			
					2:00Am	4:00Am	0.5	2.0	1.0			
					4:00Am	7:00Am	0.5	3.0	1.5			

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Date	Quarter	Runp	Time	Flow (ppm)	Per shift (hour)	Total chloride (kg)	Total chloride (kg)	Total Flow MLD	operator	Plant Siding	Remarks
19-7-2022	✓	1	7:00Am	10:00Am	0.5	2.20	1.16		Plant Siding		
	✓	2	10:00Am	12:20Pm	0.5	3.20	1.75				
	✓	3	12:20Pm	2:50Pm	0.5	1.40	0.83				
	✓		2:50Pm	5:20Pm	0.5	2.50	1.41	11.97	Plant Siding		
	✓		5:20Pm	8:20Pm	0.5	1.25	0.70	18.08	Plant Siding		
	✓		8:20Pm	5:00Pm	0.5	2.75	1.29				
	✓		5:00Pm	12:00Am	0.5	2.40	1.23				
	✓		12:00Am	2:00Am	0.5	2.0	1.0				
	✓		2:00Am	5:00Am	0.5	2.0	1.0				
	✓		5:00Am	7:00Am	0.5	2.0	1.0				
	✓		7:00Am	9:00Am	0.5	2.0	1.0				
	✓		9:00Am	11:30Am	0.5	2.75	1.29				
	✓		11:30Am	2:30Pm	0.5	2.05	1.45				
	✓		2:30Pm	4:10Pm	0.5	1.40	0.83				
	✓		4:10Pm	7:20Pm	0.5	3.10	1.58	16.83	Plant Siding		
	✓		7:20Pm	9:20Pm	0.5	2.0	1.0				
	✓		9:20Pm	11:50Am	0.5	2.30	1.25				
	✓		11:50Am	2:00Am	0.5	2.10	1.08				
	✓		2:00Am	4:00Am	0.5	2.0	1.0				
	✓		4:00Am	7:00Am	0.5	3.0	1.5				
	✓		7:00Am	10:00Am	0.5	3.0	1.5				
	✓		10:00Am	11:20Am	0.5	1.50	0.91				
	✓		11:20Am	2:50Pm	0.5	3.0	1.5				
	✓		2:50Pm	4:20Pm	0.5	1.52	0.74				
	✓		4:20Pm	7:20Pm	0.5	3.28	1.70	11.95	Plant Siding		
	✓		7:20Pm	9:20Pm	0.5	1.70	0.75	18.78	Plant Siding		
	✓		9:20Pm	11:50Am	0.5	2.30	1.25				
	✓		11:50Am	2:00Am	0.5	2.10	1.08				
	✓		2:00Am	5:00Am	0.5	2.0	1.0				
	✓		5:00Am	7:00Am	0.5	2.0	1.0				

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Date	Booster Comp			Time		Booster Capacity (CFM)	Permitt in (hour)	Total Material Digging/Move in (kg)	Total Earth Digging/Move in (kg)	Total Flow m ³	Operator	Plant Manager	Remarks
	1	2	3	on	off								
22-7-2022	✓			7:00Am	10:00Am	0.5	3.0	1.5			Saranwan		
	✓			10:00Am	12:30Pm	0.5	2.25	1.20					
	✓			12:30Pm	3:30Pm	0.5	3.25	1.70					
	✓			3:30Pm	5:20Pm	0.5	1.90	0.75					
	✓			5:20Pm	8:20Pm	0.5	3.0	1.5		11.97	19.35	Rohat	
	✓			8:20Pm	10:20Pm	0.5	2.05	1.04					
	✓			10:20Pm	12:00Pm	0.5	2.25	1.20					
	✓			12:00Pm	3:00Am	0.5	2.10	1.08					
	✓			3:00Am	5:00Am	0.5	2.0	1.0					
	✓			5:00Am	7:00Am	0.5	2.0	1.0					
	✓			7:00Am	9:00Am	0.5	2.0	1.0					
	23-7-2022	✓			9:00Am	11:00Am	0.5	2.40	1.33				
✓				11:00Am	2:00Pm	0.5	3.10	1.58					
✓				2:00Pm	4:25Pm	0.5	1.75	0.75					
✓				4:25Pm	7:40Pm	0.5	3.15	1.62					
✓				7:40Pm	9:40Pm	0.5	1.0	0.5		11.97	26.24	Katyan	
✓				9:40Pm	11:30Pm	0.5	2.25	1.45					
✓				11:30Pm	2:00Pm	0.5	2.25	1.20					
✓				2:00Pm	5:00Pm	0.5	3.0	1.5					
✓				5:00Pm	7:00Pm	0.5	2.0	1.0					
✓				7:00Am	11:40Am	0.5	4.40	2.73					
✓				11:40Am	2:20Pm	0.5	2.25	1.45					
24-7-2022		✓			2:20Pm	4:10Pm	0.5	1.75	0.79				
	✓			4:10Pm	7:10Pm	0.5	3.25	1.70					
	✓			7:10Pm	9:20Pm	0.5	1.45	0.77		11.96	25.40	Katyan	
	✓			9:20Pm	12:10Am	0.5	2.50	1.41					
	✓			12:10Am	4:00Am	0.5	3.50	1.91					
	✓			4:00Am	7:00Am	0.5	3.0	1.5					

Date	Booster Pump	Time	Booster column (EPM)	For diff. M (Hours)	Total column Density & flow in (Kg)	Total column Density & flow in (Kg)	Total Flow MUD	Operator	Plant Incharge	Remarks
25-7-2022	✓	7:00Am	0.5	3.0	1.5			Rajesh Singh		
	✓	10:00Am	0.5	1.40	0.83					
	✓	11:40Am	0.5	2.35	1.45					
	✓	2:25Pm	0.5	1.05	0.54					
	✓	3:40Pm	0.5	3.10	1.58	12.17				
	✓	6:00Pm	0.5	1.40	0.83		28.48			
	✓	8:20Pm	0.5	3.25	1.70					
	✓	11:35Pm	0.5	3.25	1.70					
	✓	7:00Am	0.5	4.0	2.0					
	✓	7:00Am	0.5	3.0	1.5					
	✓	10:00Am	0.5	2.40	1.22					
	✓	12:40Pm	0.5	3.10	1.58					
	✓	3:50Pm	0.5	1.35	0.73					
	✓	5:20Pm	0.5	0.15	1.62					
	✓	8:40Pm	0.5	1.30	0.75	11.98				
	✓	10:10Pm	0.5	2.40	1.37					
	✓	12:20Pm	0.5	3.10	1.58					
	✓	4:00Am	0.5	3.0	1.5					
	✓	7:00Am	0.5	4.40	2.33					
	✓	11:40Am	0.5	3.10	1.58					
	✓	2:50Pm	0.5	1.30	0.75					
	✓	4:20Pm	0.5	3.10	1.58					
	✓	7:30Pm	0.5	1.40	0.83					
	✓	9:10Pm	0.5	3.10	1.58	11.98	27.35			
	✓	12:20Pm	0.5	3.40	1.82					
	✓	4:00Am	0.5	3.0	1.5					

Date	Booster Pump			Time		Booster elevation (ftm)	Per shift (Hour)	Total elevation Daily/ Hour in (kg)	Total elevation Daily in (kg)	Total Flow m ³ -D	Operator	Plant In-charge	Remarks
	1	2	3	ON	OFF								
28-7-2022	✓	✓	✓	7:00Am	12:30Pm	0.5	5.20	2.75	11.98	26.18	Kalyan	Ph	
	✓	✓	✓	12:30Pm	3:30Pm	0.5	3.0	1.5					
	✓	✓	✓	3:30Pm	4:40Pm	0.5	1.10	0.58					
	✓	✓	✓	4:40Pm	7:40Pm	0.5	3.0	1.5					
	✓	✓	✓	7:40Pm	9:30Pm	0.5	1.80	0.91					
	✓	✓	✓	9:30Pm	12:10Pm	0.5	2.40	1.33					
	✓	✓	✓	12:10Pm	3:00Am	0.5	2.50	1.41					
	✓	✓	✓	3:00Am	4:00Am	0.5	4.0	2.0					
	✓	✓	✓	4:00Am	11:40Am	0.5	4.40	2.33					
	✓	✓	✓	11:40Am	2:50Pm	0.5	3.10	1.58					
29-7-2022	✓	✓	✓	2:50Pm	4:00Pm	0.5	1.10	0.58	11.98	25.52	Samaru	Ph	
	✓	✓	✓	4:00Pm	6:40Pm	0.5	2.40	1.33					
	✓	✓	✓	6:40Pm	8:10Pm	0.5	1.30	0.75					
	✓	✓	✓	8:10Pm	11:10Pm	0.5	3.0	1.5					
	✓	✓	✓	11:10Pm	2:00Pm	0.5	2.80	1.41					
	✓	✓	✓	2:00Pm	7:00Am	0.5	5.0	2.5					
	✓	✓	✓	7:00Am	10:00Am	0.5	3.0	1.5					
	✓	✓	✓	10:00Am	12:40Pm	0.5	2.40	1.33					
	✓	✓	✓	12:40Pm	11:35Pm	0.5	10.55	5.45					
	✓	✓	✓	11:35Pm	3:00Pm	0.5	3.25	1.70					
30-7-2022	✓	✓	✓	3:00Am	7:00Am	0.5	4.0	2.0	11.98	25.30	Kalyan	Ph	
	✓	✓	✓	7:00Am	10:00Am	0.5	9.0	1.5					
	✓	✓	✓	10:00Am	3:10Pm	0.5	5.10	2.58					
	✓	✓	✓	3:10Pm	4:40Pm	0.5	1.30	0.75					
	✓	✓	✓	4:40Pm	7:30Pm	0.5	2.50	1.41					
	✓	✓	✓	7:30Pm	9:00Pm	0.5	1.30	0.75					
	✓	✓	✓	9:00Pm	11:40Pm	0.5	2.40	1.33					
	✓	✓	✓	11:40Pm	4:00Am	0.5	7.20	3.66					
	✓	✓	✓	4:00Am	10:00Am	0.5	19.98	11.98					
	✓	✓	✓	10:00Am	26.15	26.15	19.98	11.98					

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Date	Booster Pump			Time ON	OFF	Booster Machine Hour ⁺ (hr)	Re-uff in (Hour)	Total chlorine Dosing Rate in (Kg)	Total chlorine Dosing Rate in (Kg)	Total Flow MGD	Operator	Shift	Remarks
	1	2	3										
1-8-2022	✓	✓	✓	7:00Am	12:20Pm	0.5	5.20	2.66			Shard		
	✓	✓	✓	12:20Pm	3:20Pm	0.5	3.0	1.5					
	✓	✓	✓	3:20Pm	4:30Pm	0.5	1.30	0.75					
	✓	✓	✓	4:30Pm	7:40Pm	0.5	2.50	1.41	11.97				
	✓	✓	✓	7:40Pm	9:30Pm	0.5	1.50	0.81					
	✓	✓	✓	9:30Pm	11:50Pm	0.5	2.20	1.16					
	✓	✓	✓	11:50Pm	3:00Am	0.5	7.10	3.58					
	✓	✓	✓	3:00Am	11:45Pm	0.5	4.45	2.37					
	✓	✓	✓	11:45Pm	2:45Pm	0.5	3.0	1.5					
	✓	✓	✓	2:45Pm	4:00Pm	0.5	1.15	0.62					
2-8-2022	✓	✓	✓	4:00Pm	6:00Pm	0.5	2.50	1.41					
	✓	✓	✓	6:00Pm	8:25Pm	0.5	1.35	0.79	11.97				
	✓	✓	✓	8:25Pm	11:40Pm	0.5	2.45	1.37					
	✓	✓	✓	11:40Pm	3:00Pm	0.5	3.50	1.91					
	✓	✓	✓	3:00Pm	7:00Pm	0.5	4.0	2.0					
	✓	✓	✓	7:00Pm	11:45Pm	0.5	4.45	2.37					
	✓	✓	✓	11:45Pm	2:50Pm	0.5	3.05	1.54					
	✓	✓	✓	2:50Pm	3:40Pm	0.5	50min	0.41					
	✓	✓	✓	3:40Pm	6:00Pm	0.5	2.10	1.58	11.97				
	✓	✓	✓	6:00Pm	8:20Pm	0.5	1.30	0.75					
3-8-2022	✓	✓	✓	8:20Pm	11:15Pm	0.5	2.55	1.45					
	✓	✓	✓	11:15Pm	3:00Pm	0.5	3.45	1.87					
	✓	✓	✓	3:00Pm	7:00Pm	0.5	4.0	2.0					
	✓	✓	✓	7:00Pm	11:40Am	0.5	4.40	2.33					
	✓	✓	✓	11:40Am	2:45Pm	0.5	2.05	1.54					
	✓	✓	✓	2:45Pm	4:10Pm	0.5	1.25	0.70					
	✓	✓	✓	4:10Pm	7:10Pm	0.5	3.0	1.5	11.97				
	✓	✓	✓	7:10Pm	9:00Pm	0.5	1.50	0.81					
	✓	✓	✓	9:00Pm	11:40Pm	0.5	2.40	1.33					
	✓	✓	✓	11:40Pm	4:00Am	0.5	4.20	2.11					
4-8-2022	✓	✓	✓	4:00Am	7:00Pm	0.5	3.0	1.5					

Date	Coaster Pump	Time	Booster cushion Hour (PPM)	Per shift in (Hour)	Total volume Daily/ Hour in (KCl)	Total volume Daily/ Day in (KCl)	Total Flow MLD	Operator	Pact Number	Remarks
5-8-2021	✓ 1	7:00 Am	11:30 Am	0.5	4.30	2.25	25.28	Kalyan	107	
	✓ 2	11:30 Am	2:50 Pm	0.5	2.20	1.66				
	✓ 3	2:50 Pm	4:15 Pm	0.5	1.25	0.70				
	✓	4:15 Pm	7:20 Pm	0.5	3.05	1.54				
	✓	7:20 Pm	9:10 Pm	0.5	1.50	0.91				
	✓	9:10 Pm	12:10 Am	0.5	3.0	1.5				
	✓	12:10 Am	4:00 Am	0.5	2.50	1.91				
	✓	4:00 Am	7:00 Am	0.5	3.0	1.5				
	✓	7:00 Am	11:00 Am	0.5	4.0	2.0				
	✓	11:00 Am	1:10 Pm	0.5	2.10	1.09				
	✓	1:10 Pm	4:20 Pm	0.5	3.20	1.66				
	✓	4:20 Pm	5:40 Pm	0.5	1.10	0.59				
6-8-2022	✓ 1	5:40 Pm	8:50 Pm	0.5	2.10	1.56	25.45	Sanjay	107	
	✓ 2	8:50 Pm	9:40 Pm	0.5	5.05	0.41				
	✓ 3	9:40 Pm	12:20 Pm	0.5	2.50	1.41				
	✓	12:20 Pm	3:00 Am	0.5	2.20	1.25				
	✓	3:00 Am	7:00 Pm	0.5	4.0	2.0				
	✓	7:00 Pm	12:20 Pm	0.5	5.20	2.66				
	✓	12:20 Pm	2:30 Pm	0.5	3.10	1.58				
	✓	2:30 Pm	4:10 Pm	0.5	4.05	2.31				
	✓	4:10 Pm	7:40 Pm	0.5	3.50	1.75				
	✓	7:40 Pm	9:20 Pm	0.5	1.50	0.91				
	✓	9:20 Pm	12:10 Am	0.5	2.40	1.33				
	✓	12:10 Am	7:00 Pm	0.5	6.50	3.41				
7-8-2022	✓ 1	7:00 Am	12:20 Pm	0.5	5.20	2.66	25.70	Kalyan	107	
	✓ 2	12:20 Pm	2:30 Pm	0.5	3.10	1.58				
	✓ 3	2:30 Pm	4:10 Pm	0.5	4.05	2.31				
	✓	4:10 Pm	7:40 Pm	0.5	3.50	1.75				
	✓	7:40 Pm	9:20 Pm	0.5	1.50	0.91				
	✓	9:20 Pm	12:10 Am	0.5	2.40	1.33				
	✓	12:10 Am	7:00 Pm	0.5	6.50	3.41				
	✓	7:00 Am	12:20 Pm	0.5	5.20	2.66				
	✓	12:20 Pm	2:30 Pm	0.5	3.10	1.58				
	✓	2:30 Pm	4:10 Pm	0.5	4.05	2.31				
	✓	4:10 Pm	7:40 Pm	0.5	3.50	1.75				
	✓	7:40 Pm	9:20 Pm	0.5	1.50	0.91				

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Date	Quarter Pump			Time		Quarter Electricity (KWh)	Per shift in (Hour)	Total electricity Dosing / Hour (in KWh)	Total Chlorine Dosing / Hour (in Kg)	Total Chlorine Dosing / Day (in Kg)	Total Flow MLD	Operator	Plant In-charge	Remarks
	1	2	3	ON	OFF									
8-8-2022	✓			7:00 Am	11:40 Am	0.5	4.40	2.07				Rohit Singh		
		✓		11:40 Am	2:40 Pm	0.5	3.0	1.5				Rohit Singh		
			✓	2:40 Pm	4:10 Pm	0.5	1.30	0.75				Rohit Singh		
			✓	4:10 Pm	7:30 Pm	0.5	3.20	1.66	11.97			Rohit Singh		
			✓	7:30 Pm	9:20 Pm	0.5	1.50	0.91				Rohit Singh		
			✓	9:20 Pm	12:10 Am	0.5	2.50	1.41				Rohit Singh		
			✓	12:10 Am	3:00 Am	0.5	2.50	1.41				Rohit Singh		
			✓	3:00 Am	7:00 Am	0.5	4.0	2.0				Rohit Singh		
			✓	7:00 Am	12:40 Pm	0.5	5.40	2.75				Rohit Singh		
			✓	12:40 Pm	3:30 Pm	0.5	2.55	1.45				Rohit Singh		
9-8-2022	✓			3:30 Pm	5:20 Pm	1.05	1.45	0.87				Rohit Singh		
		✓		5:20 Pm	8:30 Pm	0.5	2.10	1.56	11.97			Rohit Singh		
			✓	8:30 Pm	10:10 Pm	0.5	1.40	0.83				Rohit Singh		
			✓	10:10 Pm	12:00 Am	0.5	2.40	1.33				Rohit Singh		
			✓	12:00 Am	7:00 Am	0.5	6.10	3.08				Rohit Singh		
			✓	7:00 Am	12:40 Pm	0.5	4.40	2.37				Rohit Singh		
			✓	12:40 Pm	3:30 Pm	0.5	3.0	1.5				Rohit Singh		
			✓	3:30 Pm	5:20 Pm	0.5	1.25	0.70				Rohit Singh		
			✓	5:20 Pm	7:20 Pm	0.5	2.10	1.56	11.96			Rohit Singh		
			✓	7:20 Pm	9:20 Pm	0.5	2.0	1.0				Rohit Singh		
10-8-2022	✓			9:20 Pm	11:50 Pm	0.5	2.30	1.25				Rohit Singh		
		✓		11:50 Pm	3:00 Pm	0.5	3.10	1.56				Rohit Singh		
			✓	3:00 Pm	7:00 Pm	0.5	4.0	2.0				Rohit Singh		
			✓	7:00 Pm	12:40 Pm	0.5	5.40	2.75				Rohit Singh		
			✓	12:40 Pm	3:30 Pm	0.5	2.55	1.45				Rohit Singh		
			✓	3:30 Pm	5:20 Pm	0.5	1.45	0.87				Rohit Singh		
			✓	5:20 Pm	8:30 Pm	0.5	2.10	1.56	11.97			Rohit Singh		
			✓	8:30 Pm	10:10 Pm	0.5	1.40	0.83				Rohit Singh		
			✓	10:10 Pm	12:00 Am	0.5	2.40	1.33				Rohit Singh		
			✓	12:00 Am	7:00 Am	0.5	6.10	3.08				Rohit Singh		
11-8-2022	✓			7:00 Am	11:40 Am	0.5	4.40	2.37				Rohit Singh		
		✓		11:40 Am	2:40 Pm	0.5	3.0	1.5				Rohit Singh		
			✓	2:40 Pm	4:10 Pm	0.5	1.25	0.70				Rohit Singh		
			✓	4:10 Pm	7:20 Pm	0.5	2.10	1.56	11.96			Rohit Singh		
			✓	7:20 Pm	9:20 Pm	0.5	2.0	1.0				Rohit Singh		
			✓	9:20 Pm	11:50 Pm	0.5	2.30	1.25				Rohit Singh		
			✓	11:50 Pm	3:00 Pm	0.5	3.10	1.56				Rohit Singh		
			✓	3:00 Pm	7:00 Pm	0.5	4.0	2.0				Rohit Singh		
			✓	7:00 Pm	12:40 Pm	0.5	5.40	2.75				Rohit Singh		
			✓	12:40 Pm	3:30 Pm	0.5	2.55	1.45				Rohit Singh		

Date	Booster Pump			Time		Booster Capacity (Hm)	Per shift in (Hour)	Total capacity during shift in (Kg)	Total amount during shift in (Kg)	Total Flow m ³ /D	operator	Plant Incharge	Remarks
	1	2	3	ON	OFF								
14-8-2022	✓	✓	✓	7:00 Am	12:45 Pm	0.5	5:45	2.87	11.98	26.15	Rajd Singh	Dha	
	✓	✓	✓	12:45 Pm	3:50 Pm	0.5	3:05	1.51					
	✓	✓	✓	3:50 Pm	5:20 Pm	0.5	1:30	0.75					
	✓	✓	✓	5:20 Pm	8:20 Pm	0.5	3:10	1.54					
	✓	✓	✓	8:20 Pm	10:10 Pm	0.5	1:40	0.83					
	✓	✓	✓	10:10 Pm	1:10 Am	0.5	3:0	1.5					
	✓	✓	✓	1:50 Am	3:00 Am	0.5	5:50	2.91					
14-8-2022	✓	✓	✓	7:00 Am	12:25 Pm	0.5	5:25	2.70	11.97	26.14	Rajd Singh	Dha	
	✓	✓	✓	12:25 Pm	3:00 Pm	0.5	3:25	1.70					
	✓	✓	✓	3:50 Pm	5:20 Pm	0.5	1:30	0.75					
	✓	✓	✓	5:20 Pm	8:30 Pm	0.5	3:10	1.56					
	✓	✓	✓	8:30 Pm	10:10 Pm	0.5	1:40	0.83					
	✓	✓	✓	10:10 Pm	1:10 Pm	0.5	3:0	1.5					
	✓	✓	✓	1:10 Pm	7:00 Am	0.5	5:50	2.91					
14-8-2022	✓	✓	✓	7:00 Am	12:20 Pm	0.5	5:20	2.66	11.97	25.75	Rajd Singh	Dha	
	✓	✓	✓	12:20 Pm	3:30 Pm	0.5	3:10	1.58					
	✓	✓	✓	3:30 Pm	5:10 Pm	0.5	1:40	0.83					
	✓	✓	✓	5:10 Pm	8:10 Pm	0.5	3:0	1.5					
	✓	✓	✓	8:10 Pm	9:30 Pm	0.5	1:20	0.66					
	✓	✓	✓	9:30 Pm	12:20 Am	0.5	2:50	1.41					
	✓	✓	✓	12:20 Am	7:00 Am	0.5	6:40	3.33					
15-8-2022	✓	✓	✓	7:00 Am	12:50 Pm	0.5	5:50	2.91	11.96	26.15	Rajd Singh	Dha	
	✓	✓	✓	12:50 Pm	4:20 Pm	0.5	4:10	2.58					
	✓	✓	✓	4:20 Pm	7:00 Am	0.5	2:40	1.28					
	✓	✓	✓	7:00 Am	12:40 Pm	0.5	5:40	2.83					
	✓	✓	✓	12:40 Pm	1:00 Am	0.5	12:20	6.16					
	✓	✓	✓	1:00 Am	7:00 Am	0.5	6:0	3.0					
	✓	✓	✓	7:00 Am	12:40 Pm	0.5	5:40	2.83					
15-8-2022	✓	✓	✓	7:00 Am	12:50 Pm	0.5	5:50	2.91	11.95	26.85	Rajd Singh	Dha	
	✓	✓	✓	12:50 Pm	4:20 Pm	0.5	4:10	2.58					
	✓	✓	✓	4:20 Pm	7:00 Am	0.5	2:40	1.28					
	✓	✓	✓	7:00 Am	12:40 Pm	0.5	5:40	2.83					
	✓	✓	✓	12:40 Pm	1:00 Am	0.5	12:20	6.16					
	✓	✓	✓	1:00 Am	7:00 Am	0.5	6:0	3.0					
	✓	✓	✓	7:00 Am	12:40 Pm	0.5	5:40	2.83					

Date	Booster Pump			Time		Booster quantity (m ³)	Flow in (M ³ /hr)	Total quantity Discharge in (Kg)	Total quantity Discharge in (Kg)	Total Flow M ³ /D	Operator	Plant Incharge	Remarks
	1	2	3	ON	OFF								
18-8-2022	✓	✓	✓	7:00Am	11:35Am	0.5	4.15	2.29			Kalyan	Chp	
				11:35Am	2:50Pm	0.5	3.15	1.62					
				2:50Pm	4:25Pm	0.5	1:35	0.79					
				4:25Pm	7:30Pm	0.5	3:05	1.54	11.98	25.40	Rahul Singh	Chp	
				7:30Pm	9:10Pm	0.5	1:40	0.82					
				9:10Pm	12:00Am	0.5	2:50	1.41					
				12:00Am	7:00Am	0.5	7:00	3.5					
18-8-2022	✓	✓	✓	7:00Am	7:00Am	0.5	8:0	4.0			Kalyan	Chp	
				7:00Am	11:00Am	0.5	8:0	4.0	12.0	25.60	Saurabh Alavst	Chp	
				11:00Am	7:00Am	0.5	8:0	4.0					
				7:00Am	11:40Am	0.5	4:40	2.16					
				11:40Am	2:40Pm	0.5	3:0	1.5			Kalyan	Chp	
				2:40Pm	3:45Pm	0.5	3:05	0.54	11.52	25.15	Rahul Singh	Chp	
				3:45Pm	11:00Am	0.5	7:15	3.62					
				11:00Am	4:00Am	0.5	3:0	2.5					
				4:00Am	7:00Am	0.5	3:0	1.5					
				7:00Am	11:40Am	0.5	4:40	2.33			Saurabh	Chp	
				11:40Am	2:50Pm	0.5	3:10	1.58					
				2:50Pm	4:30Pm	0.5	1:40	0.83					
				4:30Pm	7:40Pm	0.5	3:10	1.52	11.97	27.47	Rahul Singh	Chp	
				7:40Pm	9:00Pm	0.5	1:20	0.66					
				9:00Pm	11:45Pm	0.5	2:45	1.37					
				11:45Pm	7:00Am	0.5	7:45	3.62					
				7:00Am	12:15Pm	0.5	5:15	2.62			Kalyan	Chp	
				12:15Pm	2:35Pm	0.5	3:20	1.66					
				2:35Pm	5:10Pm	0.5	1:35	0.79	12.44	27.62	Rahul Singh	Chp	
				5:10Pm	8:20Pm	0.5	3:10	1.58					
				8:20Pm	10:30Pm	0.5	2:10	1.08					
				10:30Pm	12:40Am	0.5	3:10	1.58					
				12:40Am	7:00Am	0.5	6:20	3.16			Alavst	Chp	

PAGE NO: _____
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Date	Dewater Pump			Time		Dewater quantity (PFM)	Per shift in (hour)	Total quantity Dewater in (Kwh)	Total quantity Dewater in (Kg)	Total Flow MLD	Operator	Prod Manager	Remarks
	1	2	3	ON	OFF								
22-8-2022	✓	✓	✓	7:00Am	12:20Pm	0.5	5.20	2.66			Patel Singh	Patel	
	✓	✓		12:24Pm	7:35Pm	0.5	2.15	1.62			Patel Singh		
	✓	✓	✓	7:35Pm	5:00Pm	0.5	1.35	0.73			Patel Singh		
	✓	✓	✓	5:00Pm	7:35Pm	0.5	2.35	1.29	12.06	28.81	Rajvrat		
	✓	✓	✓	7:35Pm	9:20Pm	0.5	1.45	0.87			Kalyan		
	✓	✓	✓	9:20Pm	11:50Pm	0.5	2.30	1.25			Kalyan		
	✓	✓	✓	11:50Pm	7:00Am	0.5	7.10	3.58			Patel Singh		
	✓	✓	✓	7:00Am	11:50Am	0.5	4.50	2.41			Patel Singh		
	✓	✓	✓	11:50Am	2:40Pm	0.5	2.50	1.41			Patel Singh		
	✓	✓	✓	2:40Pm	4:10Pm	0.5	1.30	0.75			Patel Singh		
23-8-2022	✓	✓	✓	4:10Pm	7:10Pm	0.5	3.0	1.5	11.98	26.70	Rajvrat	Patel	
	✓	✓	✓	7:10Pm	8:20Pm	0.5	2.10	1.08			Kalyan		
	✓	✓	✓	8:20Pm	11:20Pm	0.5	2.10	1.08			Kalyan		
	✓	✓	✓	11:20Pm	3:00Pm	0.5	3.30	1.75			Patel Singh		
	✓	✓	✓	3:00Pm	7:00Am	0.5	4.0	2.0			Patel Singh		
	✓	✓	✓	7:00Am	11:30Am	0.5	4.30	2.25			Patel Singh		
	✓	✓	✓	11:30Am	2:40Pm	0.5	3.10	1.58			Patel Singh		
	✓	✓	✓	2:40Pm	4:10Pm	0.5	1.70	0.95			Patel Singh		
	✓	✓	✓	4:10Pm	7:40Pm	0.5	3.30	1.75	11.85	25.38	Rajvrat		
	✓	✓	✓	7:40Pm	9:30Pm	0.5	1.50	0.91			Kalyan		
24-8-2022	✓	✓	✓	9:30Pm	12:10Am	0.5	2.40	1.33			Kalyan	Patel	
	✓	✓	✓	12:10Am	7:00Am	0.5	6.80	3.91			Kalyan		
	✓	✓	✓	7:00Am	11:50Am	0.5	4.50	2.41			Saravani		
	✓	✓	✓	11:50Am	3:20Pm	0.5	3.30	1.75			Saravani		
	✓	✓	✓	3:20Pm	5:10Pm	0.5	1.50	0.91			Saravani		
	✓	✓	✓	5:10Pm	8:40Pm	0.5	3.30	1.75	11.51	26.21	Rajvrat		
	✓	✓	✓	8:40Pm	9:40Pm	0.5	1.0	0.5			Rajvrat		
	✓	✓	✓	9:40Pm	11:50Pm	0.5	2.10	1.08			Rajvrat		
	✓	✓	✓	11:50Pm	3:00Am	0.5	2.10	1.08			Rajvrat		
	✓	✓	✓	3:00Am	6:40Am	0.5	3.40	1.81			Kalyan		

PAGE NO.:
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PAGE NO.:
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Date	Booster Comp	Time	Booster clearing hour (PM)	Revolt in (hour)	Total chlorine Dosing/hour in (Kg)	Total Chlorine Dosing/Day in (Kg)	Total Flow MLD	Operator	Plant Incharge	Remarks
26-8-2022	1	02	05	4.75	2.29	11.71	27.24	Kalyan	Sanyam	Rajesh
	2	02	05	3.55	1.95					
	3	02	05	1.50	0.91					
		02	05	2.55	1.45					
		02	05	1.55	0.95					
		02	05	2.50	1.41					
		02	05	5.20	2.75					
		02	05	8.15						
		02	05	10.10						
		02	05	1.00						

Chlorine tonner refilled date 12-06-2022
 No of tonner refilled 3 2 NOS
 Capacity of tonner 600kg/tonner
 For 2 tonner 1200kg
 Refilled tonner installed date 20-06-2022
 Quantity Consumed till 26-08-2022 812.7 Kg
 Remaining quantity till 26-08-2022 387.3 Kg

O&M of Earthen Channel

JAIPUR DEVELOPMENT AUTHORITY

No.JDA/EE PHE II/WO/2022-2023/Apr/01.

Dated:- 19/04/2022.

Work Order

M/s Shiv Samota Construction Co.
25, Malliy Ka Mohalla,
Sawaimadhosinghpura,
Dudu, Jaipur.

Sub: Maintenance of Earthen Channel to make smooth flow of Treated Sewage water from
- Gajadharpura STP Outlet start Point to Disposal End Point of Earthen Channel for 2 years under
JDA, Jaipur

Ref: 1. Your tender dated & NIT no. 11/2021-22
- 2. Acceptance Letter issued vide no. JDA/EE PHE II/LOA/2022-2023/Apr/01 Dated 18/04/2022

The above said work is being awarded to you on the terms & conditions of the above referred acceptance letter @ 0.00% AtPar "G" schedule (Based on BSR For : 2016 JDA BSR (Road Works)-2015-2016) amounting to Rs.2,29,950.00/- and Non BSR Item amounting to Rs.9,36,000.00/- detail as given below:-

SrNo.	Item Description	Quantity	Unit	Rate	Amount
1	Maintenance of Earthen Channel to make smooth flow of Treated Sewage Water of Gajadharpura STP from Outlet Point to Disposal End Point of Earthen Channel of around 15 Km length including repairing, Cleaning, De-silting, removing of bushes day to day regularly to keep it odour less if any, Regular Patrolling and monitoring of channel etc, complete in all respect as directed by Engineer in-Charge.	24.000	Per Month	39,000.00	9,36,000.00
TOTAL:					9,36,000.00

Total amounting to Rs.11,65,950.00/- (Indian Rupee Eleven Lacs Sixty Five Thousand Nine Hundred Fifty Only) without any condition on behalf of Authority,Restricted to A/F amount of Rs.15,16,19,520.00/-.

You are directed to start the work under the instruction of the Assistant Engineer and complete the same within a period of 24 Months.The stipulated date of commencement and completion,shall be reckoned as under:-

1. Stipulated date of commencement : 20/04/2022
2. Stipulated date of completion : 19/04/2024

The work has been sanctioned administrative and financially vide No. JDA/EE PHE II/A & F/2018-2019/Jun/110 Dated 28/06/2018 for Rs.15,16,19,520.00/-, Job No. JDA/EE PHE II/A & F/2018-2019/Jun/110.

Technical Sanction of the above work has been conveyed for Rs.11,13,747.00/- vide his no.JDA/EE PHE II/15/2021-2022/Mar/06 Dated 02/03/2022 by the Shiv Ratan Pareek-Executive Engineer - Executive Engineer PHE II.

On submission of agreement with Non Judicial Stamp worth [rupees] duly signed, the Agreement no. 01/2022-2023 has been allotted for this work. You should also display the board of JDA at work at site while work is in progress.

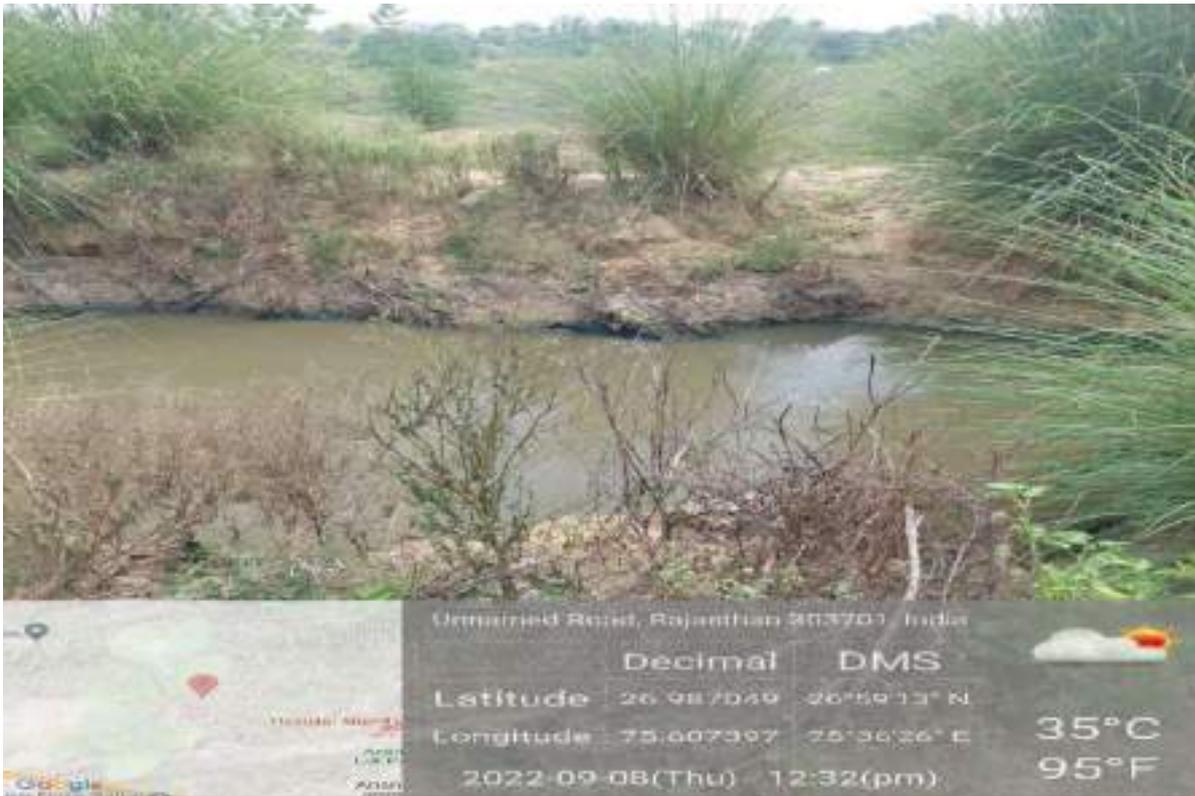
You shall require registration of workers under the Building and Other Construction workers (Regulation of Employment & Condition of Services) Act 1996 & extension of benefits to such workers under this act.

Encl.: Copy of Schedule 'G'.

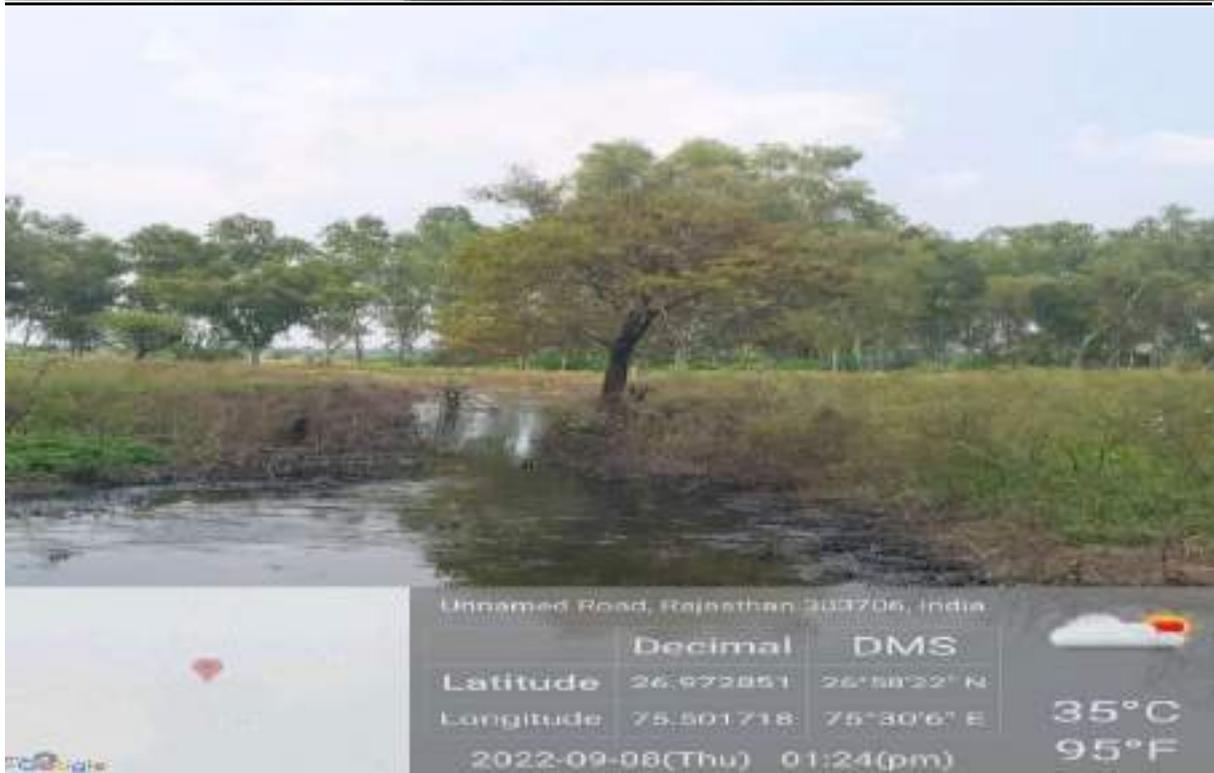
Remark :


 (Shiv Ratan Pareek)
 Executive Engineer PHE II ^{19/04/22}

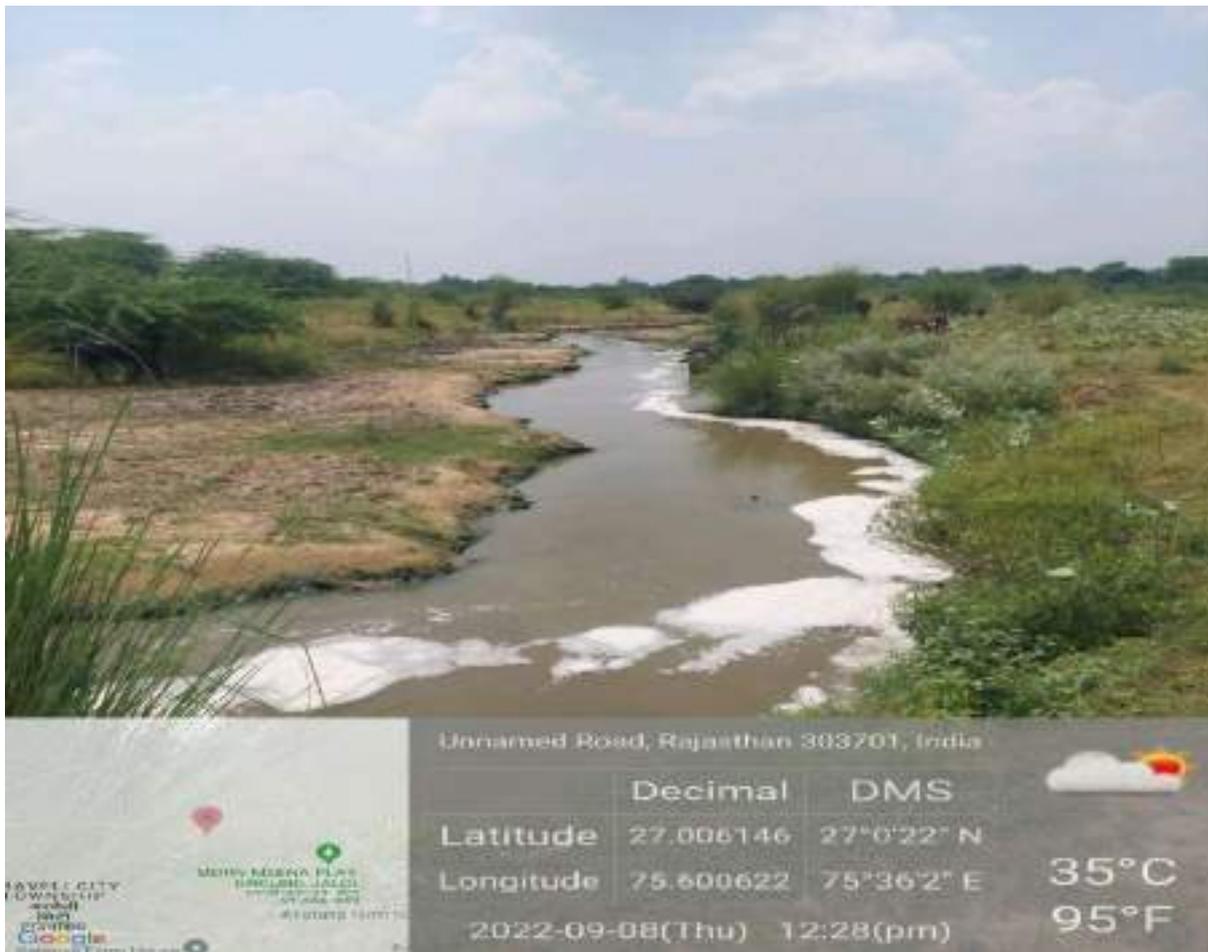












Treated Water Filling Point at Main Gate of STP

जयपुर विकास प्राधिकरण

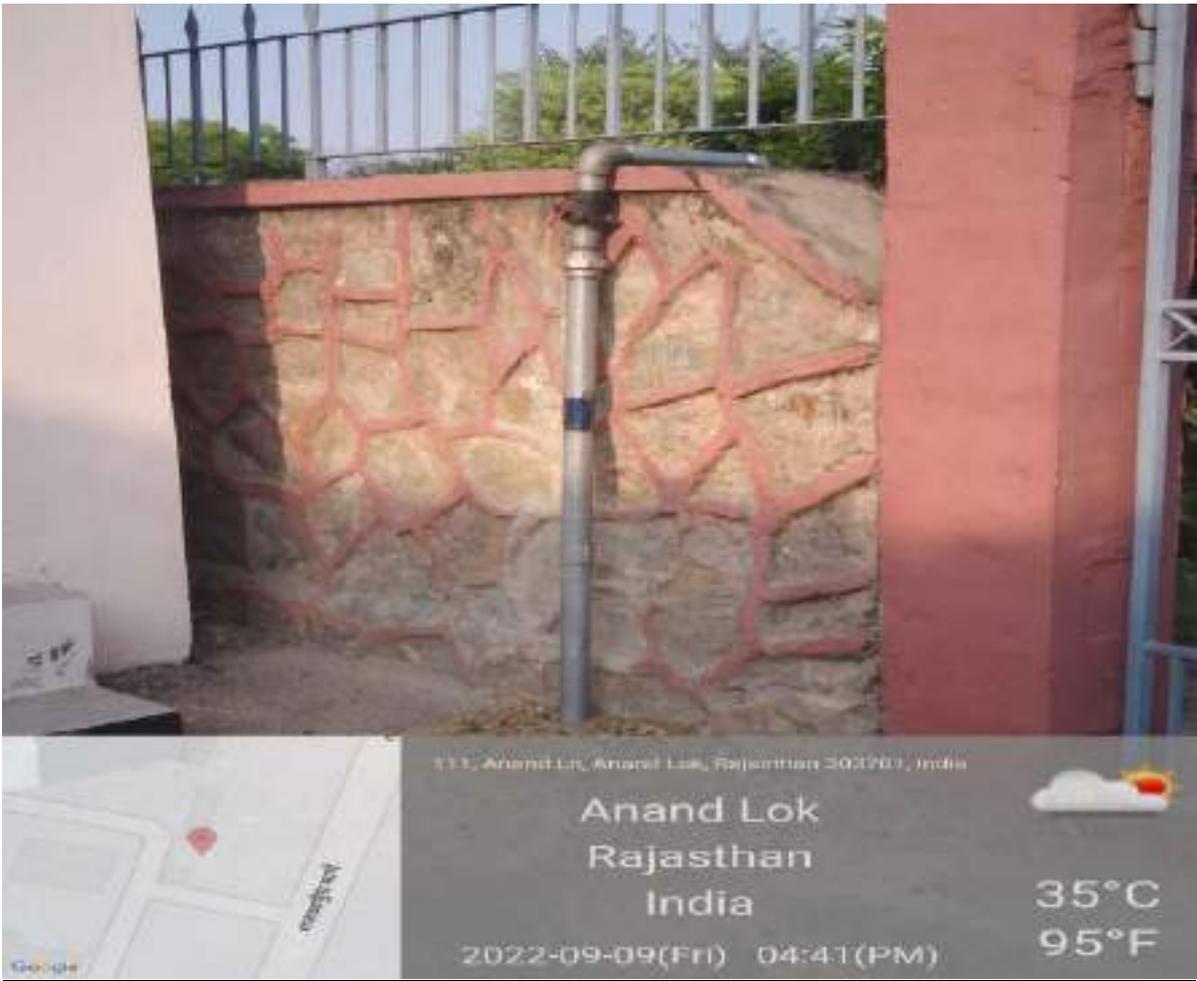
**गजाधारपुरा एसटीपी से शोधित जल बागवानी
में उपयोग एवं टैंकर में भरने के लिए
निशुल्क प्राप्त करें।**

जयपुर विकास प्राधिकरण

**गजाधारपुरा एसटीपी से शोधित जल बागवानी
में उपयोग एवं टैंकर में भरने के लिए
निशुल्क प्राप्त करें।**

शोधित जल भरने का स्थान







No. JDA/EE PHE II/WO/2021-2022/Mar/11

Dated: - 11/03/2022

Work Order
(Consultancy by Quotation)

Excelltech Consultancy & Project Pvt. Ltd,
10 and 11, Natraj Nagar,
Imli Phatak, Jaipur-302004
Pan No. : AADCE3884A1
GST No. : 08AADCE3884A1ZT

Sub: Consultancy work for the preparation of Detailed Project Report for the Up-Gradation of 30 MLD STPs at Ralewata & Gajadharpura as per NGT Norms, JDA Jaipur

Ref: 1. Your Quotation dated & Quotation no. 12/2021-22
2. Acceptance Letter issued vide no. JDA/EE PHE II/LOA/2021-2022/Mar/09 Dated 24/03/2022

The above said consultancy work is being awarded to you on the terms & conditions of the above referred acceptance letter Sr.No.2 amounting to Rs.22,55,111.00/- (Indian Rupee Twenty Two Lacs Fifty Five Thousand One Hundred Eleven Only) without any condition on behalf of authority. Details are given below:-

SrNo.	Item Description	Quantity	Unit	Rate	Amount
1	Consultancy work for the preparation of Detailed Project Report for the Up-Gradation of 30 MLD STPs at Ralewata & Gajadharpura as per NGT Norms, JDA Jaipur	1.000	Job	22,55,111.00	22,55,111.00
				TOTAL:	22,55,111.00

You are directed to start the work under the instruction of the Assistant Engineer and complete the same within a period of 4 Months. The stipulated date of commencement and completion, shall be reckoned as under:-

1. Stipulated date of commencement : 04/04/2022
2. Stipulated date of completion : 03/08/2022

The work has been sanctioned administrative and financially vide No. JDA/EE PHE I/A & F/2021-2022/Dec/282 Dated 01/12/2021 for Rs.56,32,440.00/-, Job No. JDA/EE PHE I/A & F/2021-2022/Dec/282.

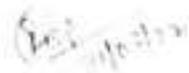
On submission of agreement with Non Judicial Stamp worth Rs.1,000.00/- duly signed, the Agreement no. 11/2021-22 has been allotted for this work.

Remark :


(Shiv Ratan Pareek)
Executive Engineer PHE II

CC To :

Honorable MP.....
Honorable MLA.....
Director (Eng.)-I, JDA, Jaipur
Additional Chief Engineer-I, JDA, Jaipur
Superintendent Engineer-X, JDA, Jaipur
Sr. Account Officer, JDA, Jaipur
Assistant Engineer/Junior Engineer, PHE-I, JDA, Jaipur
Assistant Engineer/Junior Engineer, PHE-II, JDA, Jaipur
Guard File


(Shiv Ratan Pareek)
Executive Engineer PHE II



JAIPUR DEVELOPMENT AUTHORITY, JAIPUR

www.jda.urban.rajasthan.gov.in

No. JDA /E.E. (PHE-II)/2022/D-336

Dated: 26/08/2022

The Member Secretary
Rajasthan State Pollution Control Board,
4, Institutional Area, Jhalana Doongri,
Jaipur-302004

Sub:- Implementation of the Restitution Plan prepared by Joint Committee in compliance of direction passed by Hon'ble National Green Tribunal in OA no. 80/2021, Captain Satyendra Singh Vs State of Rajasthan & Ors. regarding.

Ref.:- Letter received from Regional Officer (North), RSPCB vide no. F No. RPCB/ROJP/N/Legal-151/460 dated 03.08.2022

In the reference of above cited subject and referred letter it was directed to deposit demand draft of Rs. 30,000/- for unit wise composite (8 hours) water sampling for the performance assessment of STP Gajadharpura in compliance of Restitution plan prepared by joint committee of CPCB & RSPCB.

Accordingly, JDA is submitted demand draft of no. "509875" dated 26.08.2022 for Rs. 30,000/- for unit wise composite (8 hours) water sampling for the performance assessment of STP Gajadharpura.

Thanking You.

Enclosed:- Original DD

Executive Engineer (PHE-II)
Jaipur Development Authority,
Jaipur

Ram Kishor Vyas Bhawan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur-302004
Direct Line - (+91-141-2569696) : EPABX- 7013; Fax - + 91-141-2574555
Mail ID:- eephe2@gmail.com

It is directed to MLSD STP (I & II) New Colony to ensure regular cleaning to prevent overflow of effluent into the lake.

A/C PAYEE ONLY VALID FOR THREE MONTHS ONLY

ICICI Bank Drawee Branch

JAIPUR JDA CAMPUS 2 6 0 8 2 0 2 2

DATE

D	D	M	M	Y	Y	Y	Y

DD No. 509875

ON DEMAND PAY **MEMBER SECRETARY RAJASTHAN STATE POLLUTION CONTROL BOARD JAIPUR******* OR ORDER

RUPEES **THIRTY THOUSAND Only**

₹**30,000.00

FOR VALUE RECEIVED

Purchaser Name: **SECRETARY JDA JAIPUR**
OL/3/5 Not Above 30,000.00

6754DDCENPAY *[Signature]*
JAIPUR, JDA CAMPUS Authorized Signatory

Authorized Signatory
Please sign in blue

⑈509875⑈ 000229000⑆ 006754⑈ 16

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STP PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

20-6-2022 Date

TIME	SCREEN		PUMP																		BLOWER						Remarks													
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing			Digested Sludge		PE Dosing		Belt Wash		Chlorine Booster			Bio-Gas			Aeration Tank			Digested Sludge			
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	P1	P2	P1	P2	P1		P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2		
07.30-08.00	07	10	40					60									60	60																						
08.00-09.00			50					60	60								60	30																						
09.00-10.00	08	07			60					60									60																					
10.00-11.00					25					60											30																			
11.00-12.00	02	07				60						10																												
12.00-01.00					50	60								15																										
01.00-02.00	08	08	60	60						60																														
02.00-03.00					60	60																																		
03.00-04.00	07	05				60	60	60			60						60	60																						
04.00-05.00			60	60				60									60	30																						
05.00-06.00	08	06			60	60											60	50																						
06.00-07.00						60	60			60																														
07.00-08.00	10	05	60	60						60																														
08.00-09.00					60	60				60																														
09.00-10.00	10	04				60	60						05																											
10.00-11.00	05		60	60				60									60	60																						
11.00-12.00		06			45			60									60	30																						
12.00-01.00	08				50					60							60	60																						
01.00-02.00						50				60																														
02.00-03.00	05	05				60																																		
03.00-04.00			50																																					
04.00-05.00	04	04			45					60																														
05.00-06.00					40					60																														
06.00-07.00	05	06			25					60																														

THURSDAY 15/10/2019

Electricity at
off on
5.20pm 6.00pm
7.00pm 8.00pm

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Sonwara	Bhanot	Rohit Singh	Anas
Name	Baner	Rohit sain	Gurpreet	Shakel
Name	Alamit	Shyam	Rohit Choudhary	Ravi
Name	Prakash	Ashwagali	Keishav	Tinku

Hari

Inlet Flow	26.75 MLD
Electricity Meter Reading	6962.82.3 kWh 7404.6.5 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity read
off

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Srinivas	Kotran	Rohit Singh	Anas
Name	Chagan	Rahul Kumar	Gurpreet	Shakel
Name	Rakesh	Sivaram	Sudhanshu	Tinu
Name	Keshav	Ashfaq	Dhanesh	Sunder

Hemraj
Prakash
Hari
Aashish

Inlet Flow	25.30 MLD
Electricity Meter Reading	696531.1 740734.3
Usage of Poly-electrolyte	650

KWH
KWH

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity off on
2.40 PM 3.50 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Bhavet	Kolam	Rajesh	Anas
Name	Subash	Rajikumar	Somvar	Rajesh
Name	Sharan	Gurpreet	Chagan	Shakti
Name	Keshav	Dhanesh	Ashwathi	Ravi

Pallet chadler of Blowers
 Harman
 Hari
 Tika
 Rajesh
 Sunder
 Alankar

Inlet Flow	25.60 MLD
Electricity Meter Reading	6967551 kWh 740944 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity out
of
and

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Blawad	Rajul Singh	Katya	Anas
Name	Subbarth	Rajul Kumar	Sarwanan	Rajul Singh
Name	Sitaram	Gurpreet Singh	Chagan	Shaked
Name	Keshav	Dhanesh	Ashpogali	Ravi

Pater
Cludary
Blawad
Hannan

Havi

Potara

Tinku
Rakesh
Sunder
Aamrathi

Inlet Flow	25.45 MLD
Electricity Meter Reading	697032.1 4412.69.5 KWH KVAH
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity cut
off 8.30Am and
on 10.00Am

MANPOWER

	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Bhavot	Katpan	Rohit Singh	Anas
Name	Subbath	Rohit Kumar	Samaran	Rohit sain
Name	Rohit Choudhary	Gurpreet	Chagan	Shaked
Name	Reshav	Dhanesh	Asitpatel	Ravi
	Rakesh Ghugger Hanuman	Havi	Prakash	Tinu Sunder

Inlet Flow	25.25 MLD
Electricity Meter Reading	697279.9 kWh 741532.0 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity cut
off

9:00Am 10:00Am
4:00Pm 5:00Pm

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Blavet	Kalyan	Ratalsingh	Anand
Name	esblash	Ratalsingh	Chagan	Ratalsingh
Name	Ratalsingh Chandrabang	Citaram	Gespiram	Shaked
Name	Dhanesh	Ashpagadi (GT)	Keshav	Ravi

Sunder
Alamind
Hannan

Hori

Prakash

Rakesh
Blawer

Inlet Flow	25.45 m ³ /D
Electricity Meter Reading	697493.6 kWh 741763.8 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity out
off on

7.30 Am 8.30 Am
11.00 Am 12.00 Am
6.00 Pm 6.25 Pm

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Blawet	Srinivasam	Kelvan	Polasain
Name	Polakchandray	Polakumar	Changan	Ravi
Name	Ratshub	Sipam	Subshub	Tirpu
Name	Blawet	Ashtpadi	Dhanesh	Sunder

Harinarayan Prakash Alammali

Inlet Flow	25.22 MLD
Electricity Meter Reading	697687.2 kWh
Usage of Poly-electrolyte	741380.7 KWH

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity off
 off on
 12.30 Am 1.00 Am
 1.20 Am 2.20 Am
 6.30 Am 7.00 Am

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Blaird	Rohit Singh	Kalpan	Anas
Name	Rohit Chakravarty	Rohit Kumar (OT)	Sambhu	Rohit Sain
Name	Blawan	Siharam	Guspi Ram	Shafed
Name	Atamish	Keslav	Ashfaqasi	Ravi

Prakash

Hari

Tinku

Inlet Flow	25.40 MLD
Electricity Meter Reading	637945.9 kWh 7422557 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity cut
off

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
3.00pm	Rohit Singh	Kotyan	Sonwary	Anand
7.40pm	Subbaraj	Ratulkumar	Chagan	Shaked
6.00Am	Rahul Chaudhary	Sivaram	Ganeshram	Tinku
	Kelav	Dhanesh	Asiboyal	Rakesh
	Sunder Prakash	Hannuman	Hari	Alamhadi

3.50pm
8.00pm
6.40Am
11.15m
11.50m

Inlet Flow	25.33 MLD
Electricity Meter Reading	698160.4 kWh 442488.4 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STPLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

29-6-2022

Date

TIME	SCREEN		PUMP																BLOWER						Remark														
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing		Digested Sludge		PE Dosing			Belt Wash		Chlorine Booster			Bio-Gas		Aeration Tank			Digested Sludge			
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2			
07.00-08.00	06	10	08																																				
08.00-09.00																																							
09.00-10.00	05	07																																					
10.00-11.00																																							
11.00-12.00	06	08																																					
12.00-01.00																																							
01.00-02.00	05	05																																					
02.00-03.00	10	06																																					
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04.00-05.00																																							
05.00-06.00	08	10																																					
06.00-07.00																																							

1820

Electricity off
on
7.00 Am 10.30Am

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Blawst	Rohit Singh	Saurav	Ahmad
Name	Sivaram	Rohit Kumar	Chagan	Rohit Singh
Name	Dhanesh	Ashfaq ali	Kestor	Ravi

Sunder
Adarsh
Harman

Hari
Tinku
Blawst

Inlet Flow	RS. 48 MLD
Electricity Meter Reading	698361.8 kWh 742701.3 kWh
Usage of Poly-electrolyte	6 kg

PS = Primary Sludge
PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STE PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

30-6-2022
Date:

TIME	SCREEN		PUMP																BLOWER					Remark												
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing		Digested Sludge		PE Dosing		Belt Wash		Chlorine Booster		Bio-Gas		Aeration Tank			Digested Sludge		
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	B1	B2	B1	B2	B3	B1	B2			
07.00-08.00	06	06	18																																	
08.00-09.00			25																																	
09.00-10.00	05	10		30																																
10.00-11.00					35																															
11.00-12.00	06	12				45																														
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02.00-03.00																																				
03.00-04.00	04	04	21			16																														
04.00-05.00						30																														
05.00-06.00	06	06				28																														
06.00-07.00																																				

1857

Electricity out
 7.00 Am - 7.30 Am
 2.00 Pm - 3.00 Pm

MANPOWER

	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Blayud	Karfon	Rajesh Singh	Anon
Name	Sudesh	Rajesh Kumar	Sonwara	Rajesh Singh
Name	Rajesh Choudhary	Gurpreet	Chagan	Shakeel
Name	Danesh	Aspogali	Kelav	Ravi

Blower: Rakesh, S Havam, Pranav, Havanam
 Tinker: Ravi, Sunder, Adalmandi

Inlet Flow	26.00 MLD
Electricity Meter Reading	630506.8 kWh
Usage of Poly-electrolyte	742.330.8 kWh

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity off on

9:30Am 11:30Am
2:30Pm 2:45Pm

MANPOWER

	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rajul Singh	Blavd	Kapra	Ansh
Name	Saurav	Rajeshwar	Sudhanshu	Rajul Singh
Name	Ujjwal	Gopi Ram	Rajul Singh	Shalini
Name	Ashfaqullah	Dhanraj	Kaishav	Ravi

Sunder
Adaminahali
Prakash
Sparash
Hani
Harman
Rakesh
Blawan

Inlet Flow	28.27
Electricity Meter Reading	698216.2 743185.2
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STE PLANT, GALADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

2-4-2022
Date:

TIME	SCREEN		PUMP														BLOWER					Remarks																		
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing		Digested Sludge		PE Dosing		Belt Wash		Chlorine Booster			Bio-Gas		Aeration Tank			Digested Sludge					
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2				
07.00-08.00	05	10	40	30																																				
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09.00-10.00	07	08						60	40	60																														
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06.00-07.00	02	07																																						

1952

Electricity off on
 9.10Am 9.40Am
 6.00Am 7.20Am

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rohin	Blavet	Rohit Singh	Anas
Name	Rohit Chaudhary	Rohit Kumar	Chagan	Rohit Singh
Name	Rakesh	Siddharth	Gurpreet	Shahad
Name	Kishav	Dhanesh	Ashpogali	Ravi
	Blaguar Hawarun	Hani	Prakash	Sunder

Inlet Flow	27.33 MLD
Electricity Meter Reading	6990542 KWH 743441.4 KWH
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity off
on

10:00 Am
1:00 Pm
7:30 Pm

11:00 Am
1:10 Pm
8:30 Pm

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Kotyan	Bavet	Rajesh	Rajesh
Name	Rajesh Chaudhary	Rajesh Kumar	Sonam	Shubod
Name	Rajesh	Gupta	Chlogar	Ravi
Name	Bhawan	Kedhar	Dishant	Tinbar

Honuman
Subin
Havi

Prakash
Sunder
Agnish

Inlet Flow	24.15 MLD	
Electricity Meter Reading	699339.9	743742.8
Usage of Poly-electrolyte		

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity out
 off on
 12.45 Pm 1.10 Pm
 4.30 Pm 5.00 Pm
 11.00 Pm 12.00 Am

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Katyon	Bharat	Rajul Singh	Anas
Name	Srinivas	Rajul Kumar	Sitaram	Ravi
Name	Gudipati	Sudhakar	Rajul Choudhary	Tinhu
Name	Blawer	Ashtpadi	Dhanish	Sunder
	Hannan		Hari	Alaminoli

Inlet Flow	25.55 MLD
Electricity Meter Reading	699609.3 KWH 744033.0 KWH
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity off
on

8.00Am 9.00Am
12.00Pm 12.35Pm
3.00Pm 4.00Pm

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Kalyan	Blavet	Rohit Singh	Aman
Name	Sulabh	Rohit Singh	Sarwaran	Shaked
Name	Rakesh	Sharan	Chagan	Tinku
Name	Kesav	Ashfaq ali	Dhanesh	Sunder

Blaguar
Hannan

Preparth
Alamrath

Inlet Flow	25.42 MLD
Electricity Meter Reading	699870.8 KWH 744310.6 KWH
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity cut
off on

18.10 Am 12.45Am
2.40Am 2.55Am
4.20Am 4.40Am

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Ratishih	Sarwan	Bhadr	Ahad
Name	Shyam	Rat Kumar	Changam	Rat sain
Name	Rat chudhary	subrah	Gurpam	skand
Name	Rakesh	Keshav	Aspogadi	Ravi

Bhagar
Hosurman

Hani

Prakash

Tipu

Ashwinaki

Inlet Flow	26.30 MLD
Electricity Meter Reading	700148.0 744105.6
Usage of Poly-electrolyte	

12.45
2.55
4.40

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity off on

8:45 Am 9:10 Am
 2:00 Pm 3:00 Pm
 7:30 Pm 8:00 Pm
 12:45 Am 12:55 Am

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Alagyan	Sanyas	Kalyan	Ahad
Name	Rajul Chaudhary	Rajul Kumar	Rupin	Rajul sain
Name	Rakesh	Sivaram	Sudhank	Shaked
Name	Kedar	Aditya di	Dhanish	Ravi

Sunder
Prakash

Hari

Tribu
Alamrathi

Inlet Flow	25.48 MLD
Electricity Meter Reading	700382.0 kWh 744859.5 kWh
Usage of Poly-electrolyte	6 Kg

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity off
off on

7.00Am 8.00Am
4.30Pm 5.10Pm
8.10Pm 8.20Pm

MANPOWER

	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rajul Singh	Kalyan	Blavif	Anas
Name	GulabM	Rajul Kumar	Saravarn	Rajul sain
Name	Rajul Chaudhary	Gurpikam	Chhagan	Stacked
Name	Ketan	Ashpogadi	Dhanish	Ravi

Papesh
Shauar
Haruman

Sifanarn
Hani
Prakash

Tiku
Sunder
Aasmita ali

Inlet Flow	25.55 mLD
Electricity Meter Reading	700594.4 kWh 745032.5 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity off
 10.00 AM
 2.00 PM

Electricity on
 10.53 AM
 4.08 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rohit Singh	Katran	Blavd	Anas
Name	Sivaram	Rohit Kumar	Alagan	Rohit sain
Name	Rakesh	Rohit Chaudhary	Gurjitan	Shalced
Name	Keshav	Ashpogali	Dhanish	Ravi

Bhawan Lal
 Hanuman

Havi
 Prakash
 Sankar

Inlet Flow	27.44 MLD
Electricity Meter Reading	700888.4 745355.3
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity out
of on
12:00 PM 2:00 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rajesh Singh	Katpan	Blawet	Rajeshwari
Name	Sudhakar	Rajesh Kumar	Sankaran	Shakti
Name	Rohit Chaudhary	Gurpreet Singh	Chagan	Ravi
Name	Rakesh	Dhanesh	Keshav	Tinpu

Blawet up Hani Prasad Suresh
Hansman Adarsh

Inlet Flow	25.80 m ³ /D
Electricity Meter Reading	7010375 kWh 745574.6 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STE PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR
LOG BOOK

11-7-2022
Date

TIME	SCREEN		PUMP																BLOWER					Remark																
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing		Digested Sludge		PE Dosing		Belt Wash			Chlorine Booster			Bio-Gas		Aeration Tank			Digested Sludge				
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2				
07.00-08.00	05	06	25	45					30																															
08.00-09.00	04	04			50	60			60	60																														
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04.00-05.00					35																																			
05.00-06.00	05	06	20																																					
06.00-07.00																																								

153

1980

Electricity cut
off on
5:30 PM 6:00 PM
8:00 PM 9:25 PM
10:50 PM 11:50 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rahul Singh	Kalyan	Bhant	Aras
Name	Sitaran	Rahul Kumar	Gopran	Pai
Name	Subhash	Rajul Chhabra	Sarwan	Tinku
Name	Bhawan	Aspaqali	Dhanraj	Sunder

Hannan Hari Maunali

Inlet Flow	27.72
Electricity Meter Reading	701229.0 745782.5
Usage of Poly-electrolyte	

Kwh
kwh

PS = Primary Sludge
PE = Poly-Electrolyte

Electrical cut
 off 9:00 AM 9:15 AM on
 10:50 AM 11:20 AM
 2:00 PM 4:00 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rajid Suresh	Rajid Suresh	Rajid	Anus
Name	Subhash	Chhagan	Suresh	Shankar
Name	Sidharth	Ashpauldi	Suresh	Tinku
Name	Bhawan		Dinesh	Sunder

Humans
 Rajid
 Prabh
 Prabh
 Alavandi

Inlet Flow	25.56 MLD
Electricity Meter Reading	7101436.7 7460126
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity cut
 off on
 8:50am 9:15am
 9:30 AM 9:45am
 1:50 PM 2:30 PM
 7:00 pm 8:00 pm

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rahul Suman	Suman	Grant	Ahmed
Name	Shivan	Prabhat Kumar	Anurag	Sudesh
Name	Rahul Gauding	Sudesh	Chirag	Rahul Suman
Name	Rakesh	Keshav	Ashwini	Ravi

Bhawan
 Anurag
 Mani
 Rakesh
 Tinku
 Akhmal

Inlet Flow	26.00 MLD
Electricity Meter Reading	701658.8 kWh 746255.3 kWh
Usage of Poly-electrolyte	6 kg

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity out
 off on
 11:40 AM 12:00 PM
 3:24 PM 3:45 PM
 4:20 AM 4:45 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Chhargya	Sawary	Kalyan	Ames
Name	Rohit Chaudhary	Rohit Kumar	Guptan	Shahed
Name	Rakshy	Kashav	Subhash	Rohit Sanyal
Name	Siddhans	Asphandhi	Dhruv	Pari

Sunder
Prabhu

Hari

Tinku
Arunali

Inlet Flow	24.83 MLD
Electricity Meter Reading	701830.5 7146450.6
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Km
km

Electricity cut
all on

12:22 PM 12:45 PM
12:50 PM 1:20 PM
2:30 PM 3:30 PM
4:00 PM 5:00 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Bhand	Rajal Soni	Kalyan	Anus
Name	Siddhant	Rajal Kumar	Sunam	Ravi
Name	Rajal Chaudhary	Gopam	Chhagan	Sandeep
Name	Karan	Aspauli	Dhanraj	Rajal Soni

Rajal
Bhanu
Hannan

Sunam
Lavi

Rajal

Tanuj
Sunder
Alamudi

Inlet Flow	24-16 MJD
Electricity Meter Reading	1020562 746696.8
Usage of Poly-electrolyte	

Km
km

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity cost
 Off on
 4:30 Am 6:00 Am

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Bhavet	Rahul Singh	Kalyan	Anus
Name	Rahul Chandan	Rahul Kumar	Changan	Rahul san
Name	Parkash	Sitaram	Gopram	Ravi
Name	Keshav	Aspaadi	Dharmah	Shakti

Bhuvan
 Harri
 Parkash
 Sunder

Inlet Flow	25.09 MLD
Electricity Meter Reading	702250.8 kWh 146917.5 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity cut
 off on
 5.50 PM 8.00 PM
 10.00 PM 10.50 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Bharat	Rajni Sarda	Kalyan	Rajni Sarda
Name	Rajni Choudhary	Rajni Kumar	Gopram	Rajni
Name	Subhash	Sunam	Chhagan	Shankar
Name	Rakesh	Dhanraj	Keshav	Tinay

Bhanu Hari Prakash Sunder
 Hamman

Inlet Flow	24.13 MLD
Electricity Meter Reading	702450.7 747131.9
Usage of Poly-electrolyte	

kwh
kwh

PS = Primary Sludge
 PE = Poly-Electrolyte

JAI P O R DEVELOPMENT AUTHORITY

30 MLD STE PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

18-7-2022

Date:

TIME	SCREEN		PUMP																BLOWER					Remain																
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thick-ened Sludge		Digested Mixing		Digested Sludge		PE Dosing		Belt Wash		Chlorine Booster			Bio-Gas		Aeration Tank			Digested Sludge					
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2				
07.00-08.00	06	10	31																																					
08.00-09.00			25						60																															
09.00-10.00	05	66	45						60																															
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09.00-10.00																																								
10.00-11.00	04	07																																						
11.00-12.00	05	08																																						
12.00-01.00																																								

1176

Electricity of
 off 3.50 PM 5.50 PM
 7.50 PM 8.20 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Kolhan	Blavet	Rohit Singh	Ash
Name	Singh	Rohit Kumar	Suman	Ravi
Name	Rohit Chaudhary	Subash	Gurpreet	Tiku
Name	Kulav	Olavish	Aspoyal	Rafesh

Surinder
 Aditya
 Hymann

Havi

Blawan

Inlet Flow	16.47 MLD
Electricity Meter Reading	702692.6 kWh 747390.1 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity cut
 off
 11:10 Am
 9:30 Pm
 11:40 Am
 11:30 Pm

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rohit Singh	Blavet	Kel7on	Ahads
Name	Sublesh	Petipumar	Sarwan	Shaked
Name	Sitarvin	Adipran	Chagan	Tiku
Name	Blawan U	Ashporadi	Dhanech	Sunder

Haranan Hari Prabh Alambhal

Inlet Flow	18.08 MLD
Electricity Meter Reading	702935.5 kWh 717452.8 kWh
Usage of Poly-electrolyte	5 Kg

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity out
 off on
 5:20 PM 5:20 PM
 7:00 PM 8:00 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Srinivas	Praveen	Rajesh	Arun
Name	Rajesh Chudhary	Rajeshwar	Chagan	Rajesh
Name	Rakesh	Srinivas	Subash	Shafiq
Name	Sunder	Kasab	Asparagi	Ravi

Glares
 Harmanan

Prakash

Tipsu
 Akshay

Inlet Flow	16.83 MLD	
Electricity Meter Reading	703178.0 747915.3	KWH KWH
Usage of Poly-electrolyte		

PS = Primary Sludge
 PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STP PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

21-7-2022
Date

TIME	SCREEN		PUMP																BLOWER					Remar											
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thick-ened Sludge		Digested Mixing		Digested Sludge		PE Dosing		Belt Wash		Chlorine Booster		Bio-Gas		Aeration Tank				
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2	
07.00-08.00	06	08	20																																
08.00-09.00			18																																
09.00-10.00	05	07	30						20	60																									
10.00-11.00					45				60	60																									
11.00-12.00	04	04				50		60	60																										
12.00-01.00																																			
01.00-02.00	06	05	60	60																															
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03.00-04.00	07	04						60	50																										
04.00-05.00			40	30																															
05.00-06.00	08	01				50	30		60	60																									
06.00-07.00																																			
07.00-08.00	07	05						60																											
08.00-09.00	08	04				18																													
09.00-10.00																																			
10.00-11.00	06	00						60		40																									
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06.00-07.00	07	05																																	
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06.00-07.00	07	05																																	
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02.00-03.00	04	05																																	
03.00-04.00																																			
04.00-05.00	06	05																																	

Electricity cost
off on

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Srinivas	Ratyan	Ratul Singh	Ashok
Name	Subbath	Ratul Kumar	Changan	Ratul sain
Name	Ratul Choudhary	Sitaram	Gurpalsan	shakel
Name	Ketan	Dhanesh	Ashfaqodi	Ravi

Prabhu
Alamhadi
Hari

Prabhu

Tirku
Blower

Inlet Flow	18.78 MLD
Electricity Meter Reading	703407.9 kWh 748162.0 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

JGFIIR DEVELOPMENT AUTHORITY

30 MLD STE PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

22-7-2022
Date:

TIME	SCREEN		PUMP																BLOWER																			
	Course	Fine	Raw Sewage						P.S.	Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing		Digested Sludge		PE Dosing		Belt Wash		Chlorine Booster			Bio-Gas	Aeration Tank			Digested Sludge	Remna				
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2				
7.00-08.00	06	08	20						20																													
8.00-09.00			18																																			
9.00-10.00	07	10		28																																		
10.00-11.00					35																																	
1.00-12.00	06	07		25																																		
2.00-01.00																																						
1.00-02.00	05	06	55	30																																		
2.00-03.00																																						
3.00-04.00	04	07																																				
4.00-05.00	06	06		40																																		
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8.00-09.00	07	04																																				
9.00-10.00																																						
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2.00-03.00	07	04																																				
3.00-04.00																																						
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6.00-07.00	06	05																																				
7.00-08.00																																						
8.00-09.00	07	04																																				
9.00-10.00																																						
10.00-11.00	05	06																																				
1.00-12.00																																						
2.00-01.00	04	05																																				
1.00-02.00																																						
2.00-03.00	07	04			</																																	

Electricity cut
off on

10.30 Am 11.00 Am
11.10 Am 11.55 Am
2.10 Pm 2.20 Pm

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Srinivas	Blaraj	Kalpan	Araja
Name	Chitragam	Rajul Kumar	Gurpikam	Rajul sain
Name	Rajul Chaudhary	Sheram	Sulabh	Satish
Name	Keslav	Dhanesh	Aspatali	Ravi

Rakesh
Alaminoli
Hqarman

Hari

Prakash
Tilak
Sunder

Inlet Flow	19.35 mLD
Electricity Meter Reading	703640.2 kWh 748413.0 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity cut
off on

5.00 AM 11.00 AM
2.00 PM 3.00 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rohit Singh	Kalyan	Dhruv	Anas
Name	Gurjivan	Rohit Kumar	Sarwan	Rohit Kumar Sain
Name	Sitaram	Rohit Choudhary	Chagan	Shalpa
Name	Keshav	Ashpogadi	Dhanesh	Ravi

Rafish Havi Prakash Sunder
Himanshu

Inlet Flow	26.20 MLD
Electricity Meter Reading	703832.9 kWh 718629.8 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity cut
 off
 8:00 AM
 7:00 PM
 on
 10:00 AM
 9:00 PM

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rajul Singh	Rajyan	Ajayt	Rajul Singh
Name	Rakesh	Raj Kumar	Chagan	Shafiqul
Name	Rajul choudhary	Subhash	Gurpreet	Pavi
Name	Sandeep	Ketan	Dhanish	Tinku

Atamdeep, Harman, Havi, Blawer, Prakash

Inlet Flow	25.40 MLD	
Electricity Meter Reading	704120.2	748336.5 kWh
Usage of Poly-electrolyte		

PS = Primary Sludge
 PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STE PLANT, GALADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

25-4-2022
Date

TIME	SCREEN		PUMP														BLOWER					Remar																
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing		Digested Sludge		PE Dosing		Bait Wash		Chlorine Booster			Bio-Gas			Aeration Tank			Digested Sludge		
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2		
07.00-08.00	C5	06	18																																			
08.00-09.00			25					15		60																												
09.00-10.00	C6	07		38				60		60																												
10.00-11.00					45			60																														
11.00-12.00	C7	08	42				55																															
12.00-01.00				40				60						10																								
01.00-02.00	C8	05	60	60						60																												
02.00-03.00																																						
03.00-04.00																																						
04.00-05.00																																						
05.00-06.00	C9	04																																				
06.00-07.00																																						
07.00-08.00	C6	05	60	60						60																												
08.00-09.00																																						
09.00-10.00	C5	04																																				
10.00-11.00																																						
11.00-12.00	C4	04																																				
12.00-01.00																																						
01.00-02.00	C4	06																																				
02.00-03.00																																						
03.00-04.00	C4	04																																				
04.00-05.00																																						
05.00-06.00	C5	04																																				
06.00-07.00																																						

2034

Electricity cut
 off 11:00 Am
 on 1:30 Pm
 4:00 Pm 5:00 Pm

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rohit Singh	Blavet	Kalyan	Arab
Name	Subbath	Raj Kumar	Sambhava	Ravi
Name	Rohit choudhary	Sthovan	Gurpinder	Tinpu
Name	Keslav	Dharmesh	Asipagali	Rajesh
	Sunder Harman		Hari	Shawar Agnishakti

Inlet Flow	28.40 MLD
Electricity Meter Reading	704376.5 kWh 749213.5 kWh
Usage of Poly-electrolyte	6 Kg

PS = Primary Sludge
 PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STEP PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR
LOG BOOK

26-7-2022
Date.....

TIME	SCREEN		PUMP																BLOWER					Remar												
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing		Digested Sludge		PE Dosing		Belt Wash		Chlorine Booster		Bio-Gas		Aeration Tank					
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2		
07.00-08.00	c8	10	60	60																																
08.00-09.00			30								60	60	60	60	30																					
09.00-10.00	c7	c8	50								60	60	60	60	60	60	30																			
10.00-11.00																																				
11.00-12.00	c4	c6	60	45																																
12.00-01.00																																				
01.00-02.00	c6	c5																																		
02.00-03.00			30								60	60	60	60	60	60	30																			
03.00-04.00	c7	c4																																		
04.00-05.00			60	60																																
05.00-06.00	c7	c4	60	50																																
06.00-07.00																																				
07.00-08.00	c6	c6	60	40																																
08.00-09.00																																				
09.00-10.00	c5	c7																																		
10.00-11.00			60	45																																
11.00-12.00	c4	c6	60	45																																
12.00-01.00																																				
01.00-02.00																																				
02.00-03.00																																				
03.00-04.00	c7	c4																																		
04.00-05.00			60	60																																
05.00-06.00	c7	c4	60	50																																
06.00-07.00																																				
07.00-08.00	c6	c6	60	40																																
08.00-09.00																																				
09.00-10.00	c5	c7																																		
10.00-11.00			60	45																																
11.00-12.00	c4	c6	60	45																																
12.00-01.00																																				
01.00-02.00	c6	c5																																		
02.00-03.00			30								60	60	60	60	60	60	30																			
03.00-04.00	c7	c4																																		
04.00-05.00			60	60																																
05.00-06.00	c7	c4	60	50																																
06.00-07.00																																				
07.00-08.00	c6	c6	60	40																																
08.00-09.00																																				
09.00-10.00	c5	c7																																		
10.00-11.00			60	45																																
11.00-12.00	c4	c6	60	45																																
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02.00-03.00			30								60	60	60	60	60	60	30																			
03.00-04.00	c7	c4																																		
04.00-05.00			60	60																																
05.00-06.00	c7	c4	60	50																																
06.00-07.00																																				
07.00-08.00	c6	c6	60	40																																
08.00-09.00																																				
09.00-10.00	c5	c7																																		
10.00-11.00			60	45																																
11.00-12.00	c4	c6	60	45																																
12.00-01.00																																				
01.00-02.00	c6	c5																																		
02.00-03.00			30								60	60	60	60	60	60	30																			
03.00-04.00	c7	c4																																		
04.00-05.00			60	60																																
05.00-06.00	c7	c4	60	50																																
06.00-07.00																																				
07.00-08.00	c6	c6	60	40																																
08.00-09.00																																				
09.00-10.00	c5	c7										</																								

Electricity cut
off 7:00 Am
on 10:00 Am

MANPOWER				
Name	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Katyan	Blawit	Poly Singh	Arad
Name	Cupikan	Rajul sain	Somwans	Skateel
Name	sifaram	sublah	chagan	Trku
Name	Akram ali	Dhanesh	Aspog ali	Sunder

Hari Prakash Homnath Blawer

Inlet Flow	26.27 MLD
Electricity Meter Reading	704633.8 kWh 749494.2 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STE PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

27-7-2012
Date:

TIME	SCREEN		PUMP														BLOWER					Remark																
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing				Digested Sludge		PE Dosing		Belt Wash			Chlorine Booster			Bio-Gas		Aeration Tank			Digested Sludge
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2		
17.00-18.00	05	10	33																																			
18.00-19.00			50																																			
19.00-20.00	04	08		60																																		
20.00-21.00					55																																	
21.00-22.00	06	07				48	30																															
22.00-23.00	06	07																																				
23.00-24.00	07	08																																				
24.00-25.00	06	05																																				
25.00-26.00	05	04																																				
26.00-27.00	05	04																																				
27.00-28.00	04	06																																				
28.00-29.00	06	05																																				
29.00-30.00	05	04																																				
30.00-31.00	04	07																																				
31.00-32.00	06	07																																				
32.00-33.00	06	07																																				
33.00-34.00	07	08																																				
34.00-35.00	06	07																																				
35.00-36.00	05	04																																				
36.00-37.00	04	06																																				
37.00-38.00	04	06																																				
38.00-39.00	06	05																																				
39.00-40.00	05	04																																				
40.00-41.00	05	04																																				
41.00-42.00	04	07																																				
42.00-43.00	04	07																																				
43.00-44.00	06	07																																				
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45.00-46.00	05	04																																				
46.00-47.00	04	06																																				
47.00-48.00	06	05																																				
48.00-49.00	06	05																																				
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60.00-61.00	06	05																																				
61.00-62.00	06	05																																				
62.00-63.00	06	05																																				
63.00-64.00	06	05																																				
64.00-65.00	06	05																																				
65.00-66.00	06	05																																				
66.00-67.00	06	05																																				

1954

Electricity cut
off on

7.10 AM 7.30 AM
8.00 AM 9.00 AM
5.00 PM 6.00 PM
Total 132 min
24 12 min

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Sambhu	Rajesh Singh	Bharat	Anand
Name	Rajesh Chaudhary	Rajesh Kumar	Ashokan	Rajesh Singh
Name	Bhaskar	Srinivasan	Sudhakar	Shankar
Name	Bhaskar	Kesava	Ashokan	Ravi

Hannuman

Prakash

Tinku
Sunder
Alamrishi

Inlet Flow	27.35 MLD
Electricity Meter Reading	704856.9 749742.2
Usage of Poly-electrolyte	

KWH
KWH

PS = Primary Sludge
PE = Poly-Electrolyte

JAIJR DEVELOPMENT GUI, JORITTY

30 MLD STP PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

28-7-2021
Date

187

TIME	SCREEN		PUMP															BLOWER					Rems															
	Course	Flite	Raw Sewage					P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing			Digested Sludge			PE Dosing		Ball Wash		Chlorine Booster			Bio-Gas		Aeration Tank			Digested Sludge		
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2				
07.00-08.00	06	08	28						60																													
08.00-09.00			30						60																													
09.00-10.00	05	07		43																																		
10.00-11.00	04	06		30																																		
11.00-12.00									60	50																												
12.00-01.00	07	05		60	60																																	
01.00-02.00	06	07		60	50																																	
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03.00-04.00	05	10		60	50																																	
04.00-05.00																																						
05.00-06.00	07	06		50	55																																	
06.00-07.00																																						
07.00-08.00	10	09		48	50																																	
08.00-09.00	08	06							60	60																												
09.00-10.00																																						
10.00-11.00	05	05		42	40				60																													
11.00-12.00				50																																		
12.00-01.00	04	04		48																																		
01.00-02.00				38					60	60																												
02.00-03.00	08	07																																				
03.00-04.00	05	08		45																																		
04.00-05.00				40																																		
05.00-06.00	04	05																																				
06.00-07.00				35																																		
06.00-07.00				70																																		

2013

Electricity off
at 5.45Am on
5.58Am

Total 13 min

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Kotran	Rajul Singh	Sarwan	Akad
Name	Siteman	Rajul Singh	Chagan	Rajul Kumar
Name	Rajul choudhary	Subrah	Gurpreet	Shahed
Name	Keshav	Ashtpadi	Dhanish	Ravi

Rakesh
Alamrishi
Havi

Prakash

Tilak
Glaunv

Inlet Flow	22.18 mLD
Electricity Meter Reading	705035.5 kWh 75000 2.0 kWh
Usage of Poly-electrolyte	6kg

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity cost
44 an

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Saravna	Garvit	Kabir	Amit
Name	Siferam	Rohit Kumar	Chagan	Rohit Singh
Name	Rohit Chaudhary	Subhanshu	Gurpreet Singh	Shafiqul
Name	Keslav	Dhanesh	Ashpooj	Ravi

Rakesh
 Alamikaly
 Hanuman
 Hari
 Prakash
 Tinku
 Sunder

Inlet Flow	25.52 MLD
Electricity Meter Reading	4052.88.5 kWh 4502.25.5 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity out
off on

7.30Am 2.30Pm
5.20Pm 6.00Pm

Total 460 minutes
7h 40min

MANPOWER

MANPOWER				
Name	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Kaplan	Blavf	Rajul Singh	Aneel
Name	Gupilan	Rajul Kumar	Sanwar	Rajul sain
Name	Rajul Chaudhary	Sharon	Chagan	Shafiq
Name	Kedar	Danesh	Asparyal	Ravi

Under Administration
Atmaram

Hari

Prakash

Rajesh
Blawas

Inlet Flow	25.30 m ³ /D
Electricity Meter Reading	705517.0 kWh 750467.4 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STEP PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

Date: 31-1-2022

TIME	SCREEN		PUMP																BLOWER					Rema													
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing			Digested Sludge			PE Dosing		Belt Wash			Chlorine Booster			Bio-Gas		Aeration Tank		
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2	
07.00-08.00	05	03	18						40																												
08.00-09.00									60	60	60	60																									
09.00-10.00	06	07							60	60	60	60																									
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07.00-08.00																																					

Electricity at
off on

11.10 Am 11.30 Am
1.00 Pm 8.00 Pm

Total 9 Seemins
84.20m

MANPOWER

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Katyon	Rajesh Singh	Dhruv	Ash
Name	Gurpikar	Rajesh Kumar	Sanyam	Rajesh Singh
Name	Rajesh Chaudhary	Sushant	Chhagan	Shafiq
Name	Ketan	Dhanraj	Ashwagadi	Ravi

Shywar Hanuman
Sihagan Hari
Prabhu
Tilak
Sudha

Inlet Flow	26.15 MLD
Electricity Meter Reading	7056324 kWh 750609.4 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

JAI PUR DEVELOPMENT GU. JORITY

30 MLD STE PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR
LOG BOOK

1-8-2022

Date:.....

TIME	SCREEN		PUMP														BLOWER					Retna												
	Course	Fine	Raw Sewage					P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing		Digested Sludge			PE Dosing		Bell Wash		Chlorine Booster		Bio-Gas		Aeration Tank			Digested Sludge
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2
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Electricity cut
off on

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Blaved	Kalpan	Rajesh	Arun
Name	Saravathi	Rajkumar	Subash	Rajesh
Name	Chagan	Gopiborn	Sitaran	Shakti
Name	Dhanesh	Ashpadi	Keslar	Ravi

Blaver
Alarinati
Prakash

Rajesh
Chandury
Harish

Hari

Tinku
Rakesh
Sunder

Inlet Flow	25.70 MLD
Electricity Meter Reading	705760.4 kWh 70715.1 kWh
Usage of Poly-electrolyte	6 kg

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity cut on 4/1

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Blavaf	Kafzan	Raheshgh	Arads
Name	Sanwarq	Raheshkumar	subhadh	Raheshsain
Name	Chogam	Gupikam	Rahesh Choudhary	skateel
Name	Dhanesh	Alpagaali	Reidar	Ravi

Pakesh
 Blawar
 Prateesh
 sifozam
 Hami
 Hanuman
 Tinku
 sander
 Adamin Ali

Inlet Flow	25.38 m ³ D
Electricity Meter Reading	705987.0 kWh 751017.0 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

JALPUR DEVELOPMENT GU. AORITY

30 MID STE PLANT, GAJADHARPURA, KALWAR ROAD, JALPUR
LOG BOOK

4-8-2022
Date

201

TIME	SCREEN		PUMP												BLOWER						Parma																	
	Course	Flite	Raw Runage						P.S.		Recycle		Excess		Dilution		Thick. ened Sludge		Digeated Mixing			Digeated Sludge		PE Dosing		Beit Wash		Chlorine Borester			Bio-Gas		Aeration Tank			Digeated Sludge		
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2		
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12.00-01.00																																						
01.00-02.00	04	07	10																																			

Electricity out
 off on
 7.10 Am 12.50 Pm
 Total 340 min.
 5440 min

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Bhraj	Sarvagya	Ketan	Anand
Name	Rohit Chevally	Rohit Kumar	Chagan	Shalkeel
Name	Akash	Gurpitan	Raunak	Tinku
Name	Dhanesh	Prakash	Keshav	Abhinav
	HANURAN		HARI	

Inlet Flow	25.55 MLD
Electricity Meter Reading	7063 91.9 KWH
Usage of Poly-electrolyte	751470.5 KWH

PS = Primary Sludge
 PE = Poly-Electrolyte

Electrolysis of
 200 lbs. 200 lbs.

Primary Electrolysis

50

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Spencer	Poljan	Felicki	Felicki
Name	Spencer	Felicki	Guyton	Spencer
Name	Felicki	Spencer	Spencer	Felicki
Name	Spencer	Spencer	Spencer	Spencer

Attendance
 100%

100%

Inlet Flow	25.28 71.5
Electricity Meter Reading	216581.2 215681.3
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity at
off on

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Shard	Sanuvar	Rajesh	Aras
Name	Rakesh	Rajesh Chaudhary	Chagan	Rajesh
Name	Sunder	Sivaram	Sudhakar	Shankar
Name	Alamkh Ali	Ashfaq ali	Kishor	Ravi

Hannuman Prakash Tinku

Inlet Flow	25.45 mLD
Electricity Meter Reading	706764.5 kWh 751885.5 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity of
off

6:30 Pm - 7:30 Pm
10:15 Pm - 10:30 Pm
5:45 Am - 7:00 Am
Total 144 min
24, 28 min

MANPOWER

	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rajesh	Shivraj	Rajam	Anand
Name	Sudhakar	Rajeshwar	Chandrashekar	Rajeshwar
Name	Rajesh Choudhary	Sankar	Ganesh	Shankar
Name	Arjun	Omprakash	Rajesh	Ravi

Sunder
 Amarjith
 Prakash
 Shivraj
 Hari
 Hanuman
 Tinku
 Rajesh
 Shivar

Inlet Flow	25.26 MLD
Electricity Meter Reading	707263.2 kWh 752437.8 kWh
Usage of Poly-electrolyte	6kg

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity cut
off on

7.10 AM 9.10 AM

Totaly 150 min
2h 30 min

MANPOWER

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rakul Singh	Blavet	Rajran	Anush
Name	Sitharam	Rakul sain	allagan	Rakul Ravi
Name	Rakul chandrayy	Srinivas	Carpilkan	shakti
Name	Dhanesh	Ashpadi	Kishan	Ravi

Rakesh
Blagwan
Havi

Subash
Prakash

Hannan
Tilak
Sunder
Alemkhadi

Inlet Flow	25.33 MLD
Electricity Meter Reading	7074835 752181.5 KWH
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STE PLANT, GAJADIARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

10-2-2022
Date:

TIME	SCREEN		PUMP															BLOWER					Rema													
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thick-ened Sludge		Digested Mixing		Digested Sludge			PE Dosing		Belt Wash		Chlorine Booster			Bio-Gas			Aeration Tank		
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2
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1818

Electricity cost
off and

20/10/2019 20/10/2019
20/10/2019 20/10/2019
20/10/2019 20/10/2019

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rohit Singh	Rohit	Rohit	Anand
Name	Subash	Rohit Singh	Chhagan	Rohit Kumar
Name	Chander	Rohit Singh	Chhagan	Rohit
Name		Rohit Singh	Chhagan	Rohit

Prakash Parvi Prakash Prakash

Inlet Flow	25.45 mld
Electricity Meter Reading	707424.8 kWh 452351.1 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STP PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

11-8-2022

Date:

TIME	SCREEN		PUMP															BLOWER						Remar																	
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thick-ened Sludge		Digested Mixing			Digested Sludge			PE Dosing		Belt Wash		Chlorine Booster			Bio-Gas		Aeration Tank			Digested Sludge				
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	B1	B2	B1	B2	B3	B1	B2		
02:00-03:00	05	05	40																																						
03:00-04:00			50																																						
04:00-05:00	07	07	45																																						
05:00-06:00			50																																						
06:00-07:00	06	06	40																																						
07:00-08:00	08	08	55																																						
08:00-09:00			50																																						
09:00-10:00	07	07	40																																						
10:00-11:00			45																																						
11:00-12:00	06	06	40																																						
12:00-01:00			40																																						
01:00-02:00	05	05	30																																						
02:00-03:00			30																																						
03:00-04:00	05	05	20																																						
04:00-05:00			10																																						
05:00-06:00			10																																						
06:00-07:00			10																																						

182.9

Electricity off
on

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Sambhu	Blavd	Katyan	Anas
Name	Rakesh	Rahul Kumar	Chagan	stoked
Name	Blawan	Raj Choudhary	Gurpreet	Tinku
Name	Prakash	Dhanesh	Keslav	Alamhadi

Hanuman Havi

Inlet Flow	25.60 MLD
Electricity Meter Reading	707949.9 753134.5
Usage of Poly-electrolyte	

KWH

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity off
 4.18 pm
 4.35 pm
 Total → 17 min

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rajesh	Srinivas	Rajon	Rajesh
Name	Rajesh	Rajesh	Gopinath	Shankar
Name	Sunder	Sitharam	Sudhakar	Ravi
Name	Kesava	Dhanesh	Ashwagani	Shankar

Alternates:
 Hanuman

Inlet Flow	26.15 MLD
Electricity Meter Reading	708122.5 kWh
Usage of Poly-electrolyte	753387.5 kWh

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity cost

4H 12.20pm 12.40pm
 2.35pm 2.45pm

Total → 21 min

MANPOWER				
Name	1st Shift	2nd Shift	3rd Shift	General Shift
	Rohit Singh	Samarthy	Rohit	Ashok
Name	Sitaram	Rohit sain	Chagan	Shaktel
Name	Rakesh	Rohit choudhary	Subhash	Ravi
Name	Sunder	Keslav	Ashpogali	Tilak

Manpower: 1st Shift, 2nd Shift, 3rd Shift, Administration

Inlet Flow	26.40 MLD
Electricity Meter Reading	708142.0 kWh 753633.3 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity of
off on

11.10 AM 2.20 PM
3.20 PM 3.50 PM
5.30 PM 5.45 PM

Total 287 min
44 43 min

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rajesh Singh	Rajesh	Kalpan	Anand
Name	Sushant	Rajesh Kumar	Saurabh	Rajesh Jain
Name	Sitaram	Gurpreet	Chagan	Shahed
Name	Kedar	Dhanesh	Ashwagati	Ravi

Rajesh
Gaurav
Anurag

Rajesh
Chaitanya
Prakash

Hari

Tinku
Sandeep
Akshay

Inlet Flow	25.75 MLD
Electricity Meter Reading	708554.7 kWh 753865.8 kWh
Usage of Poly-electrolyte	6 kg

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity of
of en

MANPOWER			
	1st Shift	2nd Shift	3rd Shift
Name	Kotam	Rohit Singh	Bhavet
Name	Sarwan	Rohit Kumar	Sitaran
Name	Chagan	Rupam	Rohit choudhary
Name	Aspapati	Kesav	Dhanesh
			General Shift
			Arun
			Rohit sain
			shafiq
			Ravi

sunder
Blawar
Havi

Sutah
Prakash

Hanuman
Tiku

Rakesh
Alamin ali

Inlet Flow	26.15 MLD
Electricity Meter Reading	708720.1 kWh 754045.0 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity on
off

9.30pm 7.00Am

Total 570 min

9h 30 min

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Kalyan	Rohit Singh	Bhavet	Ansh
Name	Sanjay	Rohit Kumar	Chayan	Rohit Singh
Name	Chayan	Gurpreet	Subhash	Chakradhar
Name	Aslpaoli	Keshav	Dhanish	Ravi
	Sunder Bhawar Hamunam	Rohit Chaudhary Havi	Prakash	Tinku Rakesh Ajaynoli

Inlet Flow	26.85 MLD
Electricity Meter Reading	708956.7 kWh 754701.3 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity out
of

7.00 Am 9.00 Am
1.44 Km 1.52 Km
5.45 Km 5.55 Km
Total of 3.96 Km
24.26 min

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Kalyan	Rohit Singh	Dhruv	Aneek
Name	Sihavon	Rohit Kumar	Chagan	Rohit Sain
Name	Rohit Chaudhary	Subhanshu	Gurpreet	Ravi
Name	Sunil	A. Upadhyay	Dhanish	Tiku
	Hshuman	Prakash	Hari	Bhagwan

Inlet Flow	25.40 MLD
Electricity Meter Reading	709088.4 kWh 754444.9 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity cut
off on

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Wafar	Samir	Blawaf	Aras
Name	Rakesh	Rajkumar	Chagan	Slokal
Name	Bhawan	Cupifan	Raj Chavlay	Tiku
Name	Prakash	Keshav	Dhanash	Alamshahi

Havi

Inlet Flow	25.60 MLD
Electricity Meter Reading	709310.9 kWh 754701.2 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity cut
 off on
 5.10pm 5.20pm
Total 10 min

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Kotran	Rajesh Singh	Sanuwan	Rajesh Singh
Name	Sivaram	Rajesh Kumar	Gopibans	Shakesh
Name	Sunder	Rajesh	Subrah	Ravi
Name	Kesher	Ashpagan	Dhanesh	Shyam

Ataminali
 Hanuman

Hani

Inlet Flow	25.15 MLD
Electricity Meter Reading	709539.3 kWh 754938.5 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity off
on
1.30pm 2.55pm

Total 85min
14 25min

MANPOWER

	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Ratnan	Rajul Singh	Rajat	Anad
Name	Subhash	Rajul Kumar	Sanjay	Rajul Singh
Name	Rajul Chavhan	Gurpreet	Ahajan	Shaked
Name	Keshav	Dhanash	Ashfaq Ali	Ravi

Ratnan
Ajaynath Prakash
Hem

Sitaran
Prakash

Hannan

Tina
Sunder
Rajul

Inlet Flow	27.02 MLD
Electricity Meter Reading	709965.7 kWh 755401.6 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity at
off on

8.40 Am 10.28 Am
10.40 Am 10.42 Am
11.00 Am 11.30 Am
11.52 Am 12.25 Am
4.25 Pm 5.18 Pm
Total 218 min
34.38 min

MANPOWER

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rajesh Singh	Rajiv	Kalyan	Aneel
Name	Deepika	Raj Kumar	Sihara	Rajesh
Name	Subash	Sarwan	Raj Chaudhary	Shafiq
Name	Keshav	Dhanesh	Ashpodi	Ravi

Sunder
Blower
Harman

Chagan
Prakash

Hari

Tinu
Rajesh
Amanoli

Inlet Flow	28.81 MLD
Electricity Meter Reading	710178.7 kWh 75544.5 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity out
off on

11.15 Am 11.59 Am
6.00 Pm 7.00 Am

Total 822 min
13 h 42 min

MANPOWER

	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Rajesh	Rajesh	Kajam	Arav
Name	Gurjagan	Rajesh Kumar	Sihagan	Rajesh
Name	Subhokh	Sarman	Rajesh Chugh	Shakti
Name	Kajam	Dhanish	Ashpogali	Ravi

Sunder
Glowar
Hansman

Chagan
Tom

Prakash

Tika
Rajesh
Ajay

Inlet Flow	26.70 MLD
Electricity Meter Reading	710391.5 kWh 755879.3 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

JAIPUR DEVELOPMENT AUTHORITY

30 MLD STP PLANT, GAJADHARPURA, KALWAR ROAD, JAIPUR

LOG BOOK

24-8-2022 Date

TIME	SCREEN		PUMP																BLOWER					Remar												
	Course	Fine	Raw Sewage						P.S.		Recycle		Excess		Dilution		Thickened Sludge		Digested Mixing		Digested Sludge		PE Dosing		Belt Wash		Chlorine Booster			Bio-Gas		Aeration Tank			Digested Sludge	
			P1	P2	P3	P4	P5	P6	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P1	P2	P3	B1	B2	B1	B2	B3	B1	B2
07.00-08.00	05	02	35						20																											
08.00-09.00			58						60		60																									
09.00-10.00	06	07	45						40		60																									
10.00-11.00						30																														
11.00-12.00	07	06							50	40																										
12.00-01.00			60	60							60																									
01.00-02.00																																				
02.00-03.00																																				
03.00-04.00	05	07	60	60					30		60																									
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05.00-06.00	04	07									60	30																								
06.00-07.00			60	60							60																									
07.00-08.00	07	06							60	60																										
08.00-09.00																																				
09.00-10.00	06	05	50						25																											
10.00-11.00	05	04	60						40																											
11.00-12.00											60	30																								
12.00-01.00	04	07							45		60	20																								
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02.00-03.00	06	07							38																											
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08.00-09.00																																				
09.00-10.00																																				

Electricity cost
 9.20 Am 9.20 Am
 9.20 Am 12.00 Am
 11.00 Am 5.20 Am
 Total 228 min
 5 h 28 min

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Palak Singh	Harv	Kalyan	Anand
Name	Singh	Palak	Sudhakar	Palak
Name	Sharma	Chhagan	Palak	Ravi
Name	Aditya	Gurjinder	Dhanish	Tipsu

Manpower: Hari Prakash Blawan

Inlet Flow	25.30 MLD
Electricity Meter Reading	710498.6 kWh 755996.9 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
 PE = Poly-Electrolyte

Electricity cut
off on

10.12 Am 10.19 Am
12.31 Pm 12.40 Pm

Total → 16 min

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Sanyam	Shawar	Kalyan	Rajul sain
Name	Rahul Chaudhary	Rajul Kumar	Ulagan	Shaked
Name	Shawar	Rakesh	Gurjitan	Tinku
Name	Hari	Keshav	Dhanish	Alamhadi

Prabhu

Inlet Flow	26.21 MLD
Electricity Meter Reading	710687.4 kWh 756206.7 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

Electricity of
off on

MANPOWER				
	1st Shift	2nd Shift	3rd Shift	General Shift
Name	Kotam	Saravara	Ratna Singh	Anand
Name	Sitharam	Ratna Kumar	Gopikam	Shakeel
Name	Sunder	Rakesh	Sudhakar	Ravi
Name	Kesava	Aspogudi	Dhanesh	Alaminadi

Blower
Hassam

Hari

Inlet Flow	27.24 MLD
Electricity Meter Reading	710943.3 kWh 756487.7 kWh
Usage of Poly-electrolyte	

PS = Primary Sludge
PE = Poly-Electrolyte

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Annexure- XIII-B

PROJECT- 30 MLD STP GAJADHARPURA JAIPUR
ISSUED BY- ANSU ENGINEERING
REPORT- HYDRAULIC LOAD TO STP

Daily inlet hydraulic load to STP is listed as follows

August-2022

Date	Inlet Flow in MLD	Date	Inlet Flow in MLD
27/7/2022	27.35	12/8/2022	26.15
28/7/2022	28.18	13/8/2022	26.40
29/7/2022	25.52	14/8/2022	25.75
30/7/2022	25.30	15/8/2022	26.15
31/7/2022	26.15	16/8/2022	26.85
1/8/2022	25.70	17/8/2022	25.40
2/8/2022	25.38	18/8/2022	25.60
3/8/2022	26.90	19/8/2022	25.15
4/8/2022	25.55	20/8/2022	27.47
5/8/2022	25.28	21/8/2022	27.62
6/8/2022	25.45	22/8/2022	28.81
7/8/2021	25.70	23/8/2022	26.70
8/8/2022	25.26	24/8/2022	25.38
9/8/2022	25.33	25/8/2022	26.21
10/8/2022	25.45	26/8/2022	27.24
11/8/2022	25.60	Average	26.16





ANSU ENGINEERING

MONTHLY LAB ANALYTICAL REPORTS

30 MID-STEP-GAJAJHARPURA,
JAIPUR DEVELOPMENT AUTHORITY

Sl No	DATE	RAW SEWAGE					TREATED SEWAGE					Residual Chlorine mg/L	% of Organic in Grit
		COD mg/L	BOD ₅ mg/L	TSS mg/L	pH	COD mg/L	BOD ₅ mg/L	TSS mg/L	pH				
1	27-Jul-22	654	270	380	7.26	153	17	40	7.63	0.50	2.81		
2	28-Jul-22	536	310	304	7.67	168	15	28	7.36	0.50	2.81		
3	29-Jul-22	584	292	395	7.33	144	18	36	7.65	0.50	2.81		
4	30-Jul-22	644	264	308	7.74	172	16	48	7.48	0.50	2.81		
5	31-Jul-22	658	248	328	7.24	143	20	24	7.6	0.50	2.81		
6	1-Aug-22	522	272	316	7.18	164	17	34	7.46	0.50	2.81		
7	2-Aug-22	595	244	328	7.69	176	15	28	7.42	0.50	2.81		
8	3-Aug-22	624	285	408	7.42	184	20	42	7.64	0.50	2.81		
9	4-Aug-22	684	278	316	7.24	148	18	36	7.53	0.50	2.81		
10	5-Aug-22	608	317	300	7.67	156	20	24	7.38	0.50	2.81		
11	6-Aug-22	524	294	296	7.76	174	16	44	7.47	0.50	2.81		
12	7-Aug-22	562	272	424	7.16	160	15	30	7.41	0.50	2.81		
13	8-Aug-22	640	284	295	7.21	176	18	38	7.62	0.50	2.81		
14	9-Aug-22	510	255	308	7.34	146	16	42	7.76	0.50	2.81		
15	10-Aug-22	681	206	308	7.1	136	16	25	7.42	0.50	2.81		
16	11-Aug-22	536	292	516	7.66	128	18	35	7.36	0.50	2.81		
17	12-Aug-22	572	264	320	7.76	172	17	24	7.44	0.50	2.81		
18	13-Aug-22	628	236	296	7.5	149	20	37	7.81	0.50	2.81		
19	14-Aug-22	655	292	304	7.65	156	16	40	7.34	0.50	2.81		
20	15-Aug-22	594	284	392	7.17	164	18	32	7.46	0.50	2.81		
21	16-Aug-22	554	310	320	7.23	168	15	42	7.57	0.50	2.81		
22	17-Aug-22	633	276	320	7.12	142	20	34	7.43	0.50	2.81		
23	18-Aug-22	610	255	280	7.22	158	15	24	7.56	0.50	2.81		
24	19-Aug-22	534	327	412	7.71	176	20	38	7.39	0.50	2.81		
25	20-Aug-22	568	272	396	7.6	184	17	44	7.29	0.50	2.81		
26	21-Aug-22	670	294	294	7.31	192	15	30	7.65	0.50	2.81		
27	22-Aug-22	502	268	408	7.24	178	20	48	7.57	0.50	2.81		
28	23-Aug-22	528	254	300	7.18	164	18	26	7.48	0.50	2.81		
29	24-Aug-22	618	287	284	7.29	152	20	32	7.63	0.50	2.81		
30	25-Aug-22	582	298	368	7.17	174	17	46	7.48	0.50	2.81		
31	26-Aug-22	640	242	296	7.26	166	15	41	7.63	0.50	2.81		

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JAIPUR DEVELOPMENT AUTHORITY

PROJECT- 30 MLD STP GAJADHARPURA JAIPUR

ISSUED BY- ANSU ENGINEERING

REPORT- SLUDGE DISPOSAL

August -2022

Sr. No.	Date	Sludge Disposal Vol (m3)	No of Trolleys (Volume of trolley-2.25 Cu. Mtr)
1	27-7-2022		
2	28-7-2022	2.25	1
3	29-7-2022		
4	30-7-2022		
5	31-7-2022		
6	1-8-2022	2.25	1
7	2-8-2022		
8	3-8-2022		
9	4-8-2022		
10	5-8-2022		
11	6-8-2022		
12	7-8-2022		
13	8-8-2022	2.25	1
14	9-8-2022		
15	10-8-2022		
16	11-8-2022		
17	12-8-2022		
18	13-8-2022		
19	14-8-2022	2.25	1
20	15-8-2022		
21	16-8-2022		
22	17-8-2022		
23	18-8-2022		
24	19-8-2022		
25	20-8-2022	2.25	1
26	21-8-2022		
27	22-8-2022		
28	23-8-2022		
29	24-8-2022		
30	25-8-2022		
31	26-8-2022		



JAIPUR DEVELOPMENT AUTHORITY

PROJECT- 30 MLD STP GAJADHARPURA JAIPUR

ISSUED BY- ANSU ENGINEERING

REPORT: Rotating Equipment Maintenance Details

August-2022

S/N	STRUCTURE	NAME OF EQUIPMENT	QOS. OF UNIT	TYPE	MOTOR HP/KVA	OIL GREASE	OIL CAPACITY	OIL CHANGE HOURS FIRST/SUB	REMARK
1	RAW SEWAGE	SUBMERSIBLE PUMP	6	6P" K	36.41 KW	25 KG		720 H	OIL CHANGE
2	NET CHAMBER	MONOROCK MECHANICAL COARSE BAR SCREEN	1		1.5 KW	4 KG	5%		
		MANUAL COARSE BAR SCREEN	1						
3	FINE BAR SCREEN	BELT CONVEYOR MECHANICAL SCREEN	2		2.2 KW 3.7 KW	2 KG 3 KG	100-2%	1080 H	
4	GRIT CHAMBERS	BELT CONVEYOR GRIT COLLECTOR-1 GRIT COLLECTOR-2 GRIT REMOVAL-1 GRIT REMOVAL-2 CLASSIFIER PUMP-1 CLASSIFIER PUMP-2	1		2.2 KW 0.37 KW 0.37 KW 1.1 KW 1.1 KW 1.10 KW 1.10 KW	2 KG 2 KG 2 KG 1 KG 1.5 KG 6 KG 6 KG	3% 3% 4% 10% 10% 10% 10%	720 H 720 H 720 H 720 H 720 H 720 H 720 H	OIL CHANGE OIL CHANGE OIL CHANGE OIL CHANGE OIL CHANGE OIL CHANGE OIL CHANGE
5	PRIMARY CLARIFIERS	PRIMARY CLARIFIER-1 PRIMARY CLARIFIER-2	1		0.55 KW 0.55 KW	4 KG 4 KG	20%	1200 H	
6	AIR BLOWER	AIR BLOWER PUMP ACCENTRIC HOODS	3		90 KW	6 KG	35%	1500 H	OIL CHANGE
7	SECONDARY CLARIFIER	HOT CRUNT SECONDARY CLARIFIER-1 SECONDARY CLARIFIER-2	1		0.55 KW 0.55 KW	2 KG 4 KG 4 KG	20% 20%	1200 H 1200 H	
8	CHLORINATION ROOM	CHLORINE TANKS	1						



MONTHLY LAB ANALYTICAL REPORTS

ANSU ENGINEERING

Sl.No	DATE	RAW SEWAGE			TREATED SEWAGE			Residual Chlorine mg/L	pH	% of Organic in Grit
		COD mg/L ≤700	BOD ₅ mg/L ≤300	TSS mg/L ≤600	pH	8.5-8.6	COD mg/L ≤250			
1	27-Jun-22	614	312	368	7.20	156	15	42	7.61	≤0.5
2	28-Jun-22	584	257	340	7.66	169	18	33	7.27	0.50
3	29-Jun-22	638	272	295	7.13	149	20	47	7.61	
4	30-Jun-22	678	292	300	7.34	162	16	38	7.72	
5	1-Jul-22	623	318	440	7.31	187	17	27	7.75	
6	2-Jul-22	572	296	320	7.83	173	20	33	7.42	0.50
7	3-Jul-22	556	311	336	7.75	153	16	44	7.33	
8	4-Jul-22	612	286	260	7.65	168	18	24	7.28	
9	5-Jul-22	589	322	420	7.85	176	15	36	7.54	
10	6-Jul-22	644	296	320	7.27	163	20	28	7.61	0.50
11	7-Jul-22	544	269	284	7.19	175	18	39	7.51	
12	8-Jul-22	605	286	316	7.65	188	16	46	7.33	
13	9-Jul-22	587	318	285	7.74	155	17	42	7.43	
14	10-Jul-22	652	233	295	7.31	140	17	28	7.61	0.50
15	11-Jul-22	624	282	316	7.26	158	20	27	7.55	
16	12-Jul-22	658	242	392	7.12	174	16	39	7.69	
17	13-Jul-22	576	279	336	7.68	152	18	25	7.33	
18	14-Jul-22	610	314	328	7.83	162	20	44	7.49	
19	15-Jul-22	672	294	416	7.65	178	19	38	7.29	
20	16-Jul-22	595	338	340	7.24	157	16	45	7.67	0.50
21	17-Jul-22	533	248	296	7.39	171	18	34	7.76	
22	18-Jul-22	655	274	348	7.68	164	20	42	7.37	
23	19-Jul-22	586	312	328	7.19	177	15	26	7.63	
24	20-Jul-22	624	292	296	7.26	182	18	37	7.59	0.50
25	21-Jul-22	668	262	336	7.34	173	16	44	7.72	
26	22-Jul-22	524	318	320	7.21	168	20	30	7.62	
27	23-Jul-22	642	255	316	7.76	154	18	42	7.45	
28	24-Jul-22	592	277	328	7.27	168	17	37	7.63	0.50
29	25-Jul-22	618	307	320	7.68	178	15	48	7.39	
30	26-Jul-22	572	324	304	7.19	165	20	32	7.56	
31										



July-2022

S/N NO.	STRUCTURE	NAME OF EQUIPMENT	NOS. OF UNIT	TYPE	MOTOR HP/KW/A	OIL	GREASE	OIL CAPACITY	OIL CHANGE HOURS FIRST/SUB	REMARK
1	RAW SEWAGE	SUBMERSIBLE PUMP MONOBLOCK	6	KRT K	35.41 KW		15 KG			
2	INLET CHAMBER	MECHANICAL COARSE BAR SCREEN	1		1.5 KW	5 L	4 KG	5 L	720 H	OIL CHANGE
		MANUAL COARSE BAR SCREEN	1							
		BELT CONVEYOR	1		2.2 KW	1.5 L	2 KG	3 L		
3	FINAL BAR SCREEN	MACHINICAL SCREEN BELT CONVEYOR	2		1.7 KW	25x2 L	3 KG	100x2 L	1080 H	OIL CHANGE
		GRT COLLECTION-1	1		2.2 KW	1.5 L	2 KG	3 L		
4	GRT CHAMBERS	GRT COLLECTION-2	1		0.37 KW	6 L	2 KG	4 L	720 H	OIL CHANGE
		GRT REMOVAL-1	1		0.37 KW	6 L	2 KG	4 L	720 H	OIL CHANGE
		GRT REMOVAL-2	1		1.1 KW	10 L	1 KG	10 L	720 H	OIL CHANGE
		CLASSIFIER PUMP-1	1		1.1 KW	10 L	1.5 KG	10 L	720 H	OIL CHANGE
		CLASSIFIER PUMP-2	1		1.10 KW	10 L	6 KG	10 L	720 H	OIL CHANGE
5	PRIMARY CLARIFIERS	PRIMARY CLARIFIER 1	1		0.55 KW	10 L	4 KG	20 L	1200 H	OIL CHANGE
		PRIMARY CLARIFIER 2	1		0.55 KW	10 L	4 KG	20 L	1200 H	OIL CHANGE
6	AIR BLOWER	AIR BLOWER PUMP	3		90 KW	0 L	6 KG	35 L	1500 H	
		ACCOUTIC HOODS	3							
		HOT CANE	1			1 L	2 KG			
7	SECONDARY CLARIFIER	SECONDARY CLARIFIER 1	1		0.55 KW	10 L	4 KG	20 L	1200 H	OIL CHANGE
		SECONDARY CLARIFIER 2	1		0.55 KW	10 L	4 KG	20 L	1200 H	OIL CHANGE
8	CHLORINATION ROOM	CHLORINE DOSING	1							



JAIPUR DEVELOPMENT AUTHORITY

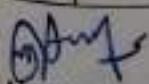
PROJECT- 30 MLD STP GAJADHARPURA JAIPUR

ISSUED BY- ANSU ENGINEERING

REPORT- SLUDGE DISPOSAL

July -2022

Sr. No.	Date	Sludge Disposal Vol (m ³)	No of Trolleys (Volume of trolley-2.25 Cu. Mtr)
1	27-6-2022		
2	28-6-2022		
3	29-6-2022		
4	30-6-2022	2.25	1
5	1-7-2022		
6	2-7-2022		
7	3-7-2022		
8	4-7-2022		
9	5-7-2022		
10	6-7-2022		
11	7-7-2022	2.25	1
12	8-7-2022		
13	9-7-2022		
14	10-7-2022		
15	11-7-2022		
16	12-7-2022		
17	13-7-2022	2.25	1
18	14-7-2022		
19	15-7-2022		
20	16-7-2022		
21	17-7-2022		
22	18-7-2022	2.25	1
23	19-7-2022		
24	20-7-2022		
25	21-7-2022		
26	22-7-2022		
27	23-7-2022		
28	24-7-2022	2.25	1
29	25-7-2022		
30	26-7-2022		
31			


 PLANT INCHARGE
 ANSU ENGINEERING

JAIPUR DEVELOPMENT AUTHORITY

PROJECT- 30 MLD STP GAJADHARPURA JAIPUR
 ISSUED BY- ANSU ENGINEERING
 REPORT- HYDRAULIC LOAD TO STP

Daily inlet hydraulic load to STP is listed as follows

July-2022

Date	Inlet Flow in MLD	Date	Inlet Flow in MLD
27/6/2022	25.40	13/7/2022	26.00
28/6/2022	25.33	14/7/2022	24.83
29/6/2022	25.48	15/7/2022	24.76
30/6/2022	26.00	16/7/2022	25.09
1/7/2022	28.27	17/7/2022	27.13
2/7/2022	27.33	18/7/2022	16.47
3/7/2022	27.15	19/7/2022	18.08
4/7/2022	25.55	20/7/2022	16.89
5/7/2022	25.42	21/7/2022	18.78
6/7/2022	26.30	22/7/2022	19.35
7/7/2022	25.48	23/7/2022	26.20
8/7/2021	25.55	24/7/2022	25.40
9/7/2022	27.44	25/7/2022	28.48
10/7/2022	25.80	26/7/2022	26.27
11/7/2022	27.72		
12/7/2022	25.56	Average	24.78

PLANT INCHARGE
 ANSU ENGINEERING



MONTHLY LAB ANALYTICAL REPORTS

Sl No	DATE	RAW SEWAGE			TREATED SEWAGE			Residual Chlorine mg/l	pH	% of Organic in Grit
		COO mg/L ≤100	BOD ₅ mg/L ≤300	TSS mg/L ≤600	pH 6.5-8.5	COO mg/L ≤250	BOD ₅ mg/L ≤20			
1	27 May-22	1242	314	1070	7.15	187	18	42	7.54	≤3
2	28 May-22	566	274	436	7.23	164	15	36	7.69	2.81
3	29 May-22	597	287	284	7.78	155	20	27	7.34	
4	30 May-22	608	265	292	7.63	171	17	43	7.43	
5	31 May-22	685	306	292	7.44	195	15	35	7.89	
6	1-Jun-22	667	289	380	7.18	179	19	26	7.73	2.81
7	2-Jun-22	648	312	316	7.25	183	16	41	7.67	
8	3-Jun-22	594	297	320	7.33	168	18	28	7.76	
9	4-Jun-22	624	305	304	7.69	147	20	37	7.34	
10	5-Jun-22	598	327	368	7.41	159	15	48	7.77	2.81
11	6-Jun-22	637	283	348	7.36	174	17	26	7.83	
12	7-Jun-22	607	267	424	7.22	154	20	42	7.63	
13	8-Jun-22	588	298	320	7.14	163	16	33	7.61	
14	9-Jun-22	556	315	340	7.31	184	18	45	7.74	2.81
15	10-Jun-22	632	220	280	7.44	151	18	30	7.34	
16	11-Jun-22	664	307	286	7.37	148	19	27	7.76	
17	12-Jun-22	598	285	316	7.63	186	16	40	7.25	
18	13-Jun-22	614	256	408	7.42	173	19	46	7.80	
19	14-Jun-22	573	307	290	7.27	154	16	32	7.64	
20	15-Jun-22	634	309	328	7.34	167	15	37	7.75	2.81
21	16-Jun-22	678	290	340	7.80	194	20	26	7.51	
22	17-Jun-22	594	248	296	7.72	182	16	34	7.38	
23	18-Jun-22	617	305	304	7.64	169	18	45	7.3	
24	19-Jun-22	556	266	416	7.21	149	15	29	7.50	2.81
25	20-Jun-22	597	319	320	7.36	173	17	43	7.73	
26	21-Jun-22	647	294	284	7.76	162	20	33	7.33	
27	22-Jun-22	626	265	284	7.60	154	18	26	7.39	
28	23-Jun-22	689	318	296	7.21	175	16	39	7.56	2.81
29	24-Jun-22	610	302	300	7.34	166	20	31	7.68	
30	25-Jun-22	575	245	416	7.77	184	15	46	7.33	
31	26-Jun-22	662	276	296	7.18	177	17	28	7.55	



JAIPUR DEVELOPMENT AUTHORITY

PROJECT- 30 MLD STP GAJADHARIPURA JAIPUR

ISSUED BY- ANSU ENGINEERING

REPORT- Rotating Equipment Maintenance Details

June-2022

SR NO	STRUCTURE	NAME OF EQUIPEMENT	NOS. OF UNIT	TYPE	MOTOR HP/KW/A	OIL	GREASE	OIL CAPACITY	OIL CHANGE HOURS FIRST/SUB	REMARK
1	RAW SEWAGE	SUBMERSIBLE PUMP	6	KRT K	36.41 KW					
		MONOBLOCK	1				15 KG			
2	INLET CHAMBER	MECHANICAL COARSE BAR SCREEN	1		1.5 KW	5 L	4 KG	5 L	720 H	OIL CHANGE
		MANUAL COARSE BAR SCREEN	1							
		BELT CONVEYOR	1		2.2 KW	1.5 L	2 KG	3 L		
3	FINE BAR SCREEN	MACHANICAL SCREEN	2		3.7 KW	0-2 L	3 KG	200-2 L	1080 H	
		BELT CONVEYOR	1		2.2 KW	1.5 L	2 KG	3 L		
4	GRIT CHAMBERS	GRIT COLLECTION-1	1		0.37KW	6 L	2 KG	4 L	720 H	OIL CHANGE
		GRIT COLLECTION-2	1		0.37 KW	6 L	2 KG	4 L	720 H	OIL CHANGE
		GRIT REMOVAL-1	1		1.1 KW	10 L	1 KG	10 L	720 H	OIL CHANGE
		GRIT REMOVAL-2	1		1.1 KW	10 L	1.5 KG	10 L	720 H	OIL CHANGE
		CLASSIFIER PUMP-1	1		1.10 KW	10 L	6 KG	10 L	720 H	OIL CHANGE
		CLASSIFIER PUMP-2	1		1.10 KW	10 L	6 KG	10 L	720 H	OIL CHANGE
5	PRIMARY CLARIFIERS	PRIMARY CLARIFIER-1	1		0.55 KW	0 L	4 KG	20 L	1200 H	
		PRIMARY CLARIFIER-2	1		0.55 KW	0 L	4 KG	20 L	1200 H	
6	AIR BLOWER	AIR BLOWER PUMP	3		90 KW	35 L	6 KG	35 L	1500 H	OIL CHANGE
		ACCOUTIC HOODS	3							
		HOT CRANE	1							
7	SECONDARY CLARIFIER	SECONDARY CLARIFIER-1	1		0.55 KW	0 L	4 KG	20 L	1200 H	
		SECONDARY CLARIFIER-2	1		0.55 KW	0 L	4 KG	20 L	1200 H	
8	CHLORINATION ROOM	CHLORINE DOSING	3							

9	METRAMIN BENCHER PUMP CHLORINE TONNER EDT	3				3.7 KW	1 KG		
10	PRIMARY SLUDGE PUMP RETURN SLUDGE PUMP	2				3.7 KW	3 KG 1 KG		
11	RETURN SLUDGE PUMP EXCESS SLUDGE PUMP HOT CRANE	2				3.7 KW	3 KG 4 KG	20 L 8L	OIL CHANGE OIL CHANGE
12	SLUDGE THICKNER THICKNER SLUDGE PUMP	1				2.5 KW	1 KG	0 L	1000 H
13	DIGESTER SLUDGE MIXING PUMP MIXING PUMP HOT CRANE	3				45 KW	4 KG		
14	DIGESTED SLUDGE PUMP BELT FILTER	2				3.7 KW	1 KG		
15	BELT FILTER PRESS-1 BELT FILTER PRESS-2 POLY DOSING PUMPS AGITATOR HOT CRANE	1				3.7 KW	20 KG	200 L	1500 H
		1				3.7 KW	20 KG	200 L	1500 H
		2				0.75 KW	2 KG		1200 H
		2				3.7 KW	2 KG		
16	BELT WASH PUMP DILUTION WATER PUMP	2				35 KW	2 KG		
		2				11.67 KW	1 KG		



JAIPUR DEVELOPMENT AUTHORITY

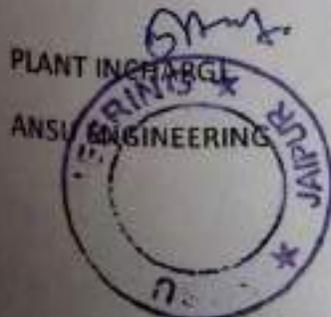
PROJECT- 30 MLD STP GAJADHARPURA JAIPUR

ISSUED BY- ANSU ENGINEERING

REPORT- SLUDGE DISPOSAL

June -2022

Sr. No.	Date	Sludge Disposal Vol (m3)	No of Trolleys (Volume of trolley-2.25 Cu. Mtr)
1	27-5-2022		
2	28-5-2022		
3	29-5-2022		
4	30-5-2022		
5	31-5-2022	2.25	1
6	1-6-2022		
7	2-6-2022		
8	3-6-2022		
9	4-6-2022		
10	5-6-2022	2.25	1
11	6-6-2022		
12	7-6-2022		
13	8-6-2022		
14	9-6-2022		
15	10-6-2022	2.25	1
16	11-6-2022		
17	12-6-2022		
18	13-6-2022		
19	14-6-2022		
20	15-6-2022	2.25	1
21	16-6-2022		
22	17-6-2022		
23	18-6-2022	2.25	1
24	19-6-2022		
25	20-6-2022		
26	21-6-2022	2.25	1
27	22-6-2022		
28	23-6-2022		
29	24-6-2022		
30	25-6-2022	2.25	1
31	26-6-2022		



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JAIPUR DEVELOPMENT AUTHORITY

PROJECT- 30 MLD STP GAJADHARPURA JAIPUR
ISSUED BY- ANSU ENGINEERING
REPORT- HYDRAULIC LOAD TO STP

Daily inlet hydraulic load to STP is listed as follows

June-2022

Date	Inlet Flow in MLD	Date	Inlet Flow in MLD
27/5/2022	25.42	12/6/2022	25.35
28/5/2022	25.29	13/6/2022	25.28
29/5/2022	25.35	14/6/2022	25.38
30/5/2022	25.40	15/6/2022	25.45
31/5/2022	25.32	16/6/2022	25.38
1/6/2022	25.35	17/6/2022	25.30
2/6/2022	25.45	18/6/2022	25.45
3/6/2022	25.25	19/6/2022	28.75
4/6/2022	25.40	20/6/2022	26.75
5/6/2022	25.35	21/6/2022	25.30
6/6/2022	25.42	22/6/2022	25.60
7/6/2022	25.25	23/6/2022	25.45
8/6/2022	25.45	24/6/2022	25.25
9/6/2022	25.32	25/6/2022	25.45
10/6/2022	25.50	26/6/2022	25.32
11/6/2022	25.40	Average	25.52

PLANT INCHARGE
 ANSU ENGINEERING

17:11

Vo0 4G LTE1

Diary No.- 25365 - 2022

JAIPUR DEVELOPMENT AUTHORITY vs. THE STATE OF RAJASTHAN

Case Details

Diary No.	25365/2022 Filed on 16-08-2022 02:39 PM PENDING
Case No.	C.A. No.
Petitioner(s)	1 JAIPUR DEVELOPMENT AUTHORITY THROUGH ITS SECRETARY RAM KISHOR VYAS BHAWAN, INDRA CIRCLE, JAWAHAR LAL NEHRU MARG ,JAIPUR , RAJASTHAN
Respondent(s)	1 THE STATE OF RAJASTHAN THROUGH THE PRINCIPAL SECRETARY FOREST AND ENVIRONMENT DEPARTMENT, GOVERNMENT SECRETARIAT BUILDING, BHAGWAN DAS ROAD ,JAIPUR , RAJASTHAN 2 RAJASTHAN SATE POLLUTION CONTROL BOARD through the member secretary 4, JHALANA INSTITUTIONAL AREA, JHALANA DOONGRI, JAIPUR ,JAIPUR , RAJASTHAN 3 M/S KHURANA ENGINEERING LTD. through its director 2ND FLOOR, MSK COMPLEX, 120 FEET RING RD, UNIVERSITY AREA, AHMEDABAD ,AHMEDABAD , GUJARAT

S U P R E M E C O U R T O F I N D I A
R E C O R D O F P R O C E E D I N G S

CIVIL APPEAL..... Diary No(s).25365/2022

(Arising out of impugned final judgment and order dated 25-04-2022 in OA No. 80/2021 passed by the National Green Tribunal)

JAIPUR DEVELOPMENT AUTHORITY

Petitioner(s)

VERSUS

THE STATE OF RAJASTHAN & ORS.

Respondent(s)

(IA No.131207/2022-CONDONATION OF DELAY IN FILING and IA No.131209/2022-STAY APPLICATION and IA No.131210/2022-EXEMPTION FROM FILING O.T. and IA No.131216/2022-PERMISSION TO FILE ADDITIONAL DOCUMENTS/FACTS/ANNEXURES)

Date : 26-09-2022 This petition was called on for hearing today.

CORAM :

HON'BLE MR. JUSTICE AJAY RASTOGI

HON'BLE MR. JUSTICE C.T. RAVIKUMAR

For Petitioner(s) Mr. Anish Maheshwari, Adv.
Mr. Yunus Malik, Adv.
Mr. Aman Malik, Adv.
Ms. Saroj Bala, Adv.
Ms. Rajeeta Raj, Adv.
Mr. Samir Malik, AOR

For Respondent(s)

UPON hearing the counsel the Court made the following
O R D E R

Delay condoned.

Learned counsel for the appellant submits that in terms of the formula evolved by the Committee regarding environmental compensation of which a reference has been made at page 8 of the impugned order, the Committee arrived at a conclusion that there is a non-compliance for the period of 135 days still taking recourse to the report, a random view has been expressed by the

Tribunal directing the environmental compensation of Rs.2 crores.

Counsel further submits that even the liability of environmental compensation on the appellant is to be examined by this Court.

Issue notice, returnable on 14.11.2022.

In the meanwhile, operation and effect of order of the Tribunal dated 25.04.2022 shall remain stayed provided the appellant deposits environmental compensation of Rs.33,75,000/- as assessed by the Committee within a period of four weeks.

(ARJUN BISHT)
COURT MASTER (SH)

(MONIKA DEY)
BRANCH OFFICER



जयपुर विकास प्राधिकरण, जयपुर

www.jda.urban.rajasthan.gov.in

No. JDA/E.E./PHE-II/2022/D- 461

Dated 11/10/2022

To,

The District Magistrate,
Madho Singh Rd, Bani Park,
Jaipur, Rajasthan-302006
Email: dm-jaip-rj@nic.in

Sub:- Regarding deposition of interim compensation to District Magistrate, Jaipur as per direction issued by Hon'ble Supreme Court and Hon'ble National Green Tribunal in OA no. 80/2021, Captain Satyendra Singh Vs State of Rajasthan & Ors.

Ref:- This office letter no. D-458 dated 10.10.2022

Respected Sir,

In the reference of above cited subject & referred letter, Demand Draft no. "509963" dated 11.10.2022 of Rs. 33,75,000/- (Rs. Thirty Three Lakh Seventy Five Thousand only) in favour of "District Collector, Jaipur" is being submitted to comply with the order of the Hon'ble Supreme Court.

Encl: Original Demand Draft

- sd -
Executive Engineer (PHE-II)
JDA, Jaipur

Copy to:

1. PS to Commissioner, JDA, Jaipur.
2. Director (Finance), JDA, Jaipur
3. Director (Law), JDA, Jaipur.
4. Director Engineering-III, JDA, Jaipur.
5. GIC-Liquid Waste, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Dungri, Jaipur-302004 (Raj.). Email:- bhuvneshmathur@rediffmail.com
6. Regional Officer, Rajasthan State Pollution Control Board (North), Opp. Road No. 5, VKI Area, Sikar Road, Jaipur E-Mail:- rorpcbjaipur@gmail.com



Executive Engineer (PHE-II)
JDA, Jaipur

राम किशोर व्यास भवन, इन्दिरा सर्किल, जवाहर लाल नेहरू मार्ग, जयपुर - 302004

दूरभाष : + 91-141-2569696 एक्सटें: 7013, फैक्स +91-141-2574555

E-Mail ID:- eephe2@gmail.com

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ITEM NO.46

COURT NO.5

SECTION XVII

S U P R E M E C O U R T O F I N D I A
R E C O R D O F P R O C E E D I N G S

Civil Appeal No(s). 7018/2022

JAIPUR DEVELOPMENT AUTHORITY

Appellant(s)

VERSUS

THE STATE OF RAJASTHAN & ORS.

Respondent(s)

(IA No.131207/2022-CONDONATION OF DELAY IN FILING and IA No.131209/2022-STAY APPLICATION and IA No.131210/2022-EXEMPTION FROM FILING O.T. and IA No.131216/2022-PERMISSION TO FILE ADDITIONAL DOCUMENTS/FACTS/ANNEXURES)

Date : 10-02-2023 This appeal was called on for hearing today.

CORAM :

HON'BLE MR. JUSTICE AJAY RASTOGI
HON'BLE MS. JUSTICE BELA M. TRIVEDI

For Appellant(s) Mr. Anish Maheshwari, Adv.
Mr. Samir Malik, AOR

For Respondent(s) Mr. Nishant Awana, Adv.
Mr. Azmat Hayat Amanullah, AOR

Mrs. Taruna Singh Gohil, AOR
Ms. Ranu Purohit, Adv.
Mr. Alapati Sahithya Krishna, Adv.

Ms. Purvi Mathur, Adv.
Mr. Vishnu Sharma A.S., AOR

UPON hearing the counsel the Court made the following
O R D E R

We have heard learned counsel for the parties and consider appropriate to modify our interim order dated 26.09.2022.

Since the environmental compensation of Rs. 33,75,000/- as indicated by the Tribunal referred to on page 8, paragraph no. 4.0 has been deposited by the appellant and the Committee has furnished its report before the Tribunal, let the Tribunal may proceed with

the matter on the basis of Committee's report including recommendations and decide in accordance with law and so far as the compensation which has been deposited will abide by further orders passed by the Tribunal.

The interim order passed by this Court on 26.09.2022 is modified accordingly.

Let the Tribunal may proceed with the matter.

List after eight weeks.

(VIRENDER SINGH)
BRANCH OFFICER

(ASHWANI KUMAR)
ASTT. REGISTRAR-cum-PS

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 24)
Final Report

Report No. : 22537

Report On : 24/02/2023

I hereby certify that I V S Parihar, State Board Analyst duly appointed under sub Section(3) of Section 53 of the Water (Prevention & Control of Pollution) Act, 1974 received on the 16/02/2023 from Shri Om Prakash Shardul, SO, Jaipur ,RSPCB Jaipur a sample of Waste Water of M/S Sewage Treatment Plant of Jaipur Development Authority , Plant - Sewage Treatment Plant [15679] ,Village Gajadharpura, Kalwar Road, , City- Jaipur Tehsil- Sanganer , District- JAIPUR Collected from Final Outlet of STP Collected on 15/02/2023. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on 24/02/2023 and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	pH	7.40
2	Total Suspended Solids mg/l	114
3	Chemical Oxygen Demand (COD) mg/l	187
4	Bio-Chemical Oxygen Demand (BOD) (3days at 27° C) mg/l	61
5	Oil & Grease mg/l	2
6	Ammonical Nitrogen as N mg/l	66.9
7	Phosphate (Total) as P mg/l	11.4
8	Nitrate Nitrogen as N mg/l	7.1
9	Total Kjeldahl Nitrogen (TKN) as N mg/l	101

The condition of the seals, fastening and container on receipt was as follows : **Intact**
 Signed This On 24/02/2023

BOARD ANALYST

Rajasthan State Pollution Control Board
 Head Office (Central Laboratory)
 4, Institutional Area, Jhalana Doongari,
 Jaipur-302 004
 Phone: 0141-5159648,5159607
 Fax: 0141-5159665

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(See Rule - 24)
Final Report

Report No. : 22393

Report On : 20/01/2023

I hereby certify that I V S Parihar, State Board Analyst duly appointed under sub Section(3) of Section 53 of the Water (Prevention & Control of Pollution) Act, 1974 received on the 10/01/2023 from Shri Om Prakash Shardul, SO, Jaipur ,RSPCB Jaipur a sample of Waste Water of M/S Sewage Treatment Plant of Jaipur Development Authority , Plant - Sewage Treatment Plant [15679] ,Village Gajadharpura, Kalwar Road, , City- Jaipur Tehsil- Sanganer , District- JAIPUR Collected from Final Outlet of STP Collected on 09/01/2023. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on 20/01/2023 and declare the result of the analysis to be as below :-

S. No.	Parameters	Result
1	pH	7.47
2	Total Suspended Solids mg/l	360
3	Chemical Oxygen Demand (COD) mg/l	371
4	Bio-Chemical Oxygen Demand (BOD) (3days at 27° C) mg/l	152
5	Oil & Grease mg/l	3
6	Ammonical Nitrogen as N mg/l	71.0
7	Phosphate (Total) as P mg/l	22.8
8	Total Kjeldahl Nitrogen (TKN) as N mg/l	94.6

The condition of the seals, fastening and container on receipt was as follows : **Intact**
Signed This On 20/01/2023


BOARD ANALYST

Rajasthan State Pollution Control Board
Head Office (Central Laboratory)
4, Institutional Area, Jhalana Doongari,
Jaipur-302 004
Phone: 0141-5159648,5159607
Fax: 0141-5159665

FORM - X
RAJASTHAN STATE POLLUTION CONTROL BOARD
REPORT OF THE STATE BOARD ANALYST
(Sec Rule - 24)
Final Report

Report No. : 5459

Report On : 09/03/2023

I hereby certify that I Dr Manoj Kumar Meena, State Board Analyst duly appointed under sub Section(3) of Section 53 of the Water (Prevention & Control of Pollution) Act, 1974 received on the 27/02/2023 from Shri Om Prakash Shandul, SO, Jaipur, RSPCB Jaipur a sample of Waste Water of M/S Sewage Treatment Plant of Jaipur Development Authority, Plant - Sewage Treatment Plant [15679], Village Gajadharpura, Kalwar Road, City- Jaipur Tehsil- Sanganeer, District- JAIPUR Collected from Final outlet of STP Collected on 25/02/2023. The Sample was in a condition fit for analysis as reported below :-

I further certify that I have analyzed the aforementioned sample on 09/03/2023 and declare the result of the analysis to be as below :-

S.No.	Parameters	Result
1	Faecal Coliform (MPN Technique) /100 ml	280
2	Total Coliform (MPN Technique) /100 ml	430

The condition of the seals, fastening and container on receipt was as follows : **Intact**

Signed This On 09/03/2023

BOARD ANALYST

Rajasthan State Pollution Control Board
 Regional Office Kota
 SPL-2A, Road no. 6, Indrapasth Ind. Area,
 Kota

Phone: 0744-2490873



Rajasthan State Pollution Control Board
 Headquarter, 4, Institutional Area, Jhalana Doongri, Jaipur-302004
 Phone :0141-2711263, 2716802 e-mail: member-secretary@rpcb.nic.in
 RSPCB Helpline No: 0141-2716877

F.14(Tech- Jaipur)/STP-9/ RPCB/L.W/21755-2179

Date: 17/03/2023

**Executive Engineer (PIIE-II),
 Jaipur Development Authority,
 Opposite Birla Mandir, Jaipur**

Sub:- Show cause notice for intended prosecution and intended revocation of Consent to Operate under the provisions of the Water (Prevention and Control of Pollution) Act 1974 for 30 MLD STP Gajadharpura, Kalwar Road, Jaipur.

Ref:- Analysis report of treated sewage dated 20.01.2023 and 24.02.2023. (Copy enclosed)

1. Whereas, the Water (Prevention and Control of Pollution) Act, 1974 (hereinafter referred to as the "Water Act") has come into force in whole of the State of Rajasthan w.e.f. 23/03/1974.
2. And whereas the Water Act has been enacted to provide for the prevention and control of water pollution and for maintaining and restoring the wholesomeness of water.
3. And whereas keeping this in view the Rajasthan State Pollution Control Board (hereinafter called as the "Board") has been conferred powers to take such steps as are necessary for the prevention and control of water pollution.
4. And whereas under the provisions of section 24 of the Water Act, no person shall knowingly cause or permit any poisonous, noxious or polluting matter, determined in accordance with such standards as may be laid down by the State Board, to enter into any stream or well or sewer or on land.
5. And whereas under the provisions of section 25/26 of the Water Act, no person shall without the previous Consent of the State Board establish or take any steps to establish, any industry, operation or process or any treatment and disposal system or any extension or addition thereto, which is likely to discharge sewage or trade effluent into a stream or well or sewer or on land or bring into use any new or altered outlet for the discharge or sewage or trade effluent or begin to make any new discharge of sewage or trade effluent.
6. And whereas section 44 of the Water Act provides that whoever contravenes the provisions of section 25 or 26 shall be punishable with imprisonment for a term which shall not be less than one year six months but which may extend to six years with fine.
7. And whereas, contravention of the provision of section 24 and section 25/26 is a criminal offence, punishable under section 43 and 44 of the Water Act, respectively.
8. And whereas, the Jaipur Development Authority, Jaipur (hereinafter called as the "Project proponent") is operating an STP of capacity 30 MLD STP at Village- Gajadharpura, Kalwar Road, Jaipur.
9. And whereas, Consent to Operate under Water Act was granted to Project Proponent vide letter no. F(MUID)/Jaipur (Sanganer)/41(1)/2013-2014/1545-1548 dated 26.06.2020.



Rajasthan State Pollution Control Board
 Headquarter, 4, Institutional Area, Jhalana Doongri, Jaipur-302004
 Phone :0141-2711263, 2716802 e-mail: member-secretary@rpcb.nic.in
 RSPCB Helpline No: 0141-2716877

10. And whereas, samples of treated sewage were collected on 09.01.2023 and 15.02.2023 by officials of the Board from final outlet of the STP and the results of analysis reveal that treated sewage does not conform to the prescribed standards. The details are as under :-

Limits	Date of sampling	Results beyond prescribed limits
TSS- 20 mg/l COD-50 mg/l BOD-10 mg/l Nitrogen(Total)-10 mg/l Phosphate(Total)-1.0 mg/l Fecal Coliform- 230 MPN/100 ml	09.01.2023	TSS- 360 mg/l COD-371 mg/l BOD-152 mg/l Nitrogen(Total)-94.6 mg/l Phosphate(Total)- 22.8 mg/l
	15.02.2023	TSS- 114 mg/l COD-187 mg/l BOD-61mg/l Nitrogen(Total)-101 mg/l Phosphate(Total)- 11.4 mg/l
	25.02.2023	Fecal Coliform (MPN Technique)/ 100 ml- 280 MPN /100 ml

11. And whereas, the above observation clearly indicate that the Project Proponent has not complied with condition of Consent to Operate issued on 26.06.2020.
12. And whereas, Hon'ble NGT has already directed to improve O & M of the STP in the matter of O.A. no. 80/2021, Captain Satyendra Singh v/s State of Rajasthan and Ors.
13. And whereas, Hon'ble NGT has imposed Environmental Compensation of Rs. 2 Crores on Jaipur Development Authority in the matter of O.A. no. 80/2021, Captain Satyendra Singh v/s State of Rajasthan and Ors.
14. And whereas, Jaipur Development Authority has deposited Rs. 33.75 Lacs to District Magistrate Jaipur as interim compensation in compliance to Hon'ble Supreme Court's order dated 26.09.2022.
15. And whereas, the Hon'ble NGT in the matter of O.A No. 593/2017 in its order dated 28.08.2019 has given following direction regarding imposition of Environmental Compensation for violation of the rules :-

"All the Local Bodies and or the concerned departments of the State Government have to ensure 100% treatment of the generated sewage and in default to pay Compensation which is to be recovered by the States/UTs, with effect from 01.04.2020. In default of such collection, the States/UTs are liable to pay such Compensation. The CPCB is to collect the same and utilize for restoration of the Environment."

16. And whereas the Hon'ble NGT in O.A no. 593/2017 Paryavaran Suraksha Samiti &Anr. V/s Union of India &Ors. in its order dated 20.05.2020 has inter-alia directed as under :-



Rajasthan State Pollution Control Board
 Headquarter, 4, Institutional Area, Jhalana Doongri, Jaipur-302004
 Phone :0141-2711263, 2716802 e-mail: member-secretary@rpcb.nic.in
 RSPCB Helpline No: 0141-2716877

"PCBs/PCCs are free to realise compensation for violation but from 01.07.2020, such compensation must be realised as per direction of this Tribunal failing which the erring State PCBs/PCCs will be accountable."

17. And whereas the Hon'ble NGT in O.A no. 593/2017 Paryavaran Suraksha Samiti & Anr. V/s Union of India & Ors. in its order dated 21.09.2020 has inter-alia directed as under :-

"The timeline for commissioning of all STPs fixed by the Hon'ble Supreme Court i.e, 31.03.2018, has long passed. The Hon'ble Supreme Court directed that the State PCB must initiate prosecution of erring Secretaries to the Governments, which has also not happened. This Tribunal was directed to monitor compliance and, in the course, thereof, we direct that compensation may be recovered in the manner already directed in earlier orders, which may be deposited with the CPCB for restoration of the environment."

18. And whereas section 48 of the Water Act provides that :-

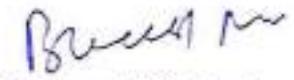
"Where an offence under this Act has been committed by any Department of Government, the Head of the Department shall be deemed to be guilty of the offence and shall be liable to be proceeded against and punished accordingly."

19. And therefore, the Board, in view of the above non-compliance intends to :-

- i. Prosecute the Jaipur Development Authority and responsible officers under the provision of section 33, 43, 44 and 48 of the Water Act, 1974.
- ii. Revoke consent to operate issued vide letter dated 26.06.2020.

If you have any submission/ reply to the intended action, you may submit your reply to this office along with copy to R.O, RSPCB Jaipur (North) by 31.03.2023 failing which the State Board shall be constrained to proceed further in accordance with the law.

This bears approval of the competent authority.

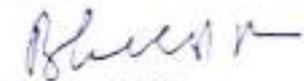
o/c 
 (Bhuvanesh Mathur)
 GIC, Liquid Waste

F.14(Tech- Jaipur)/STP-9/ RPCB/L.W/

Date:

Copy to following for information/necessary action: -

- (i) PS to Commissioner, Jaipur Development Authority, Jaipur.
- (ii) Director Engineering-III, Jaipur Development Authority, Jaipur.
- (iii) Regional Officer, Rajasthan State Pollution Control Board, Jaipur (North) with directions to follow up with concerned agency and ensure compliance.
- (iv) Master File, Liquid Waste, RPCB, Jaipur.

o/c 
 GIC, Liquid Waste


JAIPUR DEVELOPMENT AUTHORITY, JAIPUR
www.jda.urban.rajasthan.gov.in

No. JDA /E.E. (PHE-II)/2023/D-102

Dated: 13-3-2023

Minutes of Meeting

A meeting was held on dated 09.03.2023 under the Chairmanship of Director Engineer-III in his chamber, to discuss the implementation of the restitution/restoration plan for 30 MLD STP Gajadharpura, Kalwar Road Jaipur in compliance of Hon'ble NGT order dated 15.12.2023 in O.A. no. 80 of 2021 (CZ) in the matter of Captain Satyendra Singh vs State of Rajasthan and orders, the meeting was attended by following:

1. Sh. Devendra Gupta, Director Engineering-III, JDA, Jaipur
2. Sh. Sanjeev Jain, ACE-III, JDA, Jaipur
3. Sh. M.L.Meena, SE-10, JDA, Jaipur
4. Sh. Vijay Sharma, RO, RSPCB, Jaipur (North)
5. Smt. Shilpi R. Purohit, J.D. (Industries), GM, DIC, Jaipur.
6. Sh. Dinesh Kumar Kukana, EE (PHE-II), JDA, Jaipur.
7. Sh. Vikram Singh Bhati, Executive Engineer, Water Resource Department, Jaipur.
8. Sh. Ashish Sharma, AEn, JDA, Jaipur
9. Sh. Nitin Kumar Goyal, Jen, JDA, Jaipur.

During the discussion, it was apprised by EE (PHE-II), JDA to officials that JDA is maintaining STP as per earlier issued parameters by RSPCB vide CTO issued vide order no. 2013-2014/MUID/2401 dated 09.09.2013. As per direction issued by Hon'ble NGT, to achieve the latest parameters i.e. BOD-10, COD-50 & TSS-20, the up-gradation of STP is essential. In this regard, an A&F has been sanctioned by JDA for Rs. 108.60 Crore for up-gradation including 10 year O&M of STP (copy enclosed). It was also apprised that as per direction of Hon'ble NGT, the Bio Gas shall be utilized in Power Generation.

As joint committee of CPCB & RSPCB framed by Hon'ble NGT, directed to remove the deposited sludge from river bed before kalwar road and to installed Flow Meter deposited sludge has been removed and flow meter Executive Engineer (PHE-II)

Ram Kishor Vyas Bhawan, Indira Circle, Jawahar Lal Nehru Marg, Jaipur - 302004
 Direct Line (+91-141-2563234) EPABX +91-141-2569696 Ext : 7013 : Fax : +91-141-2574555
 E-mail : eephe2@gmail.com

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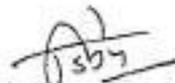
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JAIPUR DEVELOPMENT AUTHORITY, JAIPUR
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apprised that has already been installed at Inlet bypass point of STP as well as CCTV has also been installed. To provide STP treated water for various purpose to local vendors at free of cost, hydrant work for filling the tankers is under progress. At present treated water is being disposed through kacchi channel.

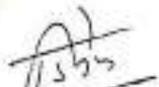
The Executive Engineer, WRD apprised that this earthen channel is being constructed in Masonry by Water Resource Department (WRD) and A & F of Rs. 631.00 Lacs has been sanctioned on dated 03.09.2022 and work has been issued to M/s. Gauri Construction for amounting to Rs. 532.00 Lacs. The stipulated date of commencement & completion of work is 18.12.2022 & 09.06.2024. The work has been started at site and under progress. In this proposed work channel shall be constructed in Masonry in the length of 1650 meter and shall be constructed earthen/Kacchi in approx. 6.0 meter in width. In this alignment of channel, 16 nos. pulia shall be constructed to maintain the smooth traffic and to cross the channel. It was also apprised by EE (WRD) that bed of channel shall be earthen/kachha which will increase water table of the surrounding areas and irrigation may be possible in approx. 1000 hectare area.

The meeting ended with a vote of thanks to the chair.


(Dinesh Kumar Kukana)
Executive Engineer (PHE-II)
JDA, Jaipur

Copy to:

1. PA to Director Engineering-III, JDA, Jaipur
2. Additional Chief Engineer-III, JDA, Jaipur.
3. Superintending Engineer-X, JDA, Jaipur.
4. RO, RSPCB, Jaipur (North).
5. J.D. (Industries), GM, DIC, Jaipur.
6. Executive Engineer, WRD, Jaipur.


Executive Engineer (PHE-II)
JDA, Jaipur

Compliance of Restitution Plan in NGT O.A. 80 of 2021 (CZ)w.r.t. STP, River Bandi, Treated water management

S.N O.	Action required	Responsible Agency	Execution Agency	Probable outcome	Present compliance status by RSPCB
Immediate Action required (with in 1 month)					
1.	Stopping the STP Bypass and installation of digital flow meters on the bypass line.	JDA	JDA	No discharge of untreated/partially treated effluent other than the rainwater	-
2.	Identification of the units operating in non-industrial areas / industrial areas and discharging wastewater reaching this STP.	JDA (non-industrial area) and RSPCB in association with JDA (industrial area)	JDA (non-industrial area) RSPCB (industrial area)	No industrial effluent will meet the sewer, which will result in an improvement in treatment	Senior Regional Manager, RIICO was contacted by officials of RSPCB to explore the source of colored effluent from industries if any to the STP. And it was informed that no industry on industrial converted land or industrial area near to STP was found/reported discharging colored effluent in sewer drain.
3.	Identification of the units operate on the left bank of river Bandi for their sewer discharge and ensure a treatment in STP or provide septic tank	RSPCB & JDA	JDA, RSPCB & respective unit	No direct discharge of untreated sewer in river Bandi	M/s Natani polymers unit was inspected on 27.12.2022 and found that no discharge of waste water from the unit was there.

S.N O.	Action required	Responsible Agency	Execution Agency	Probable outcome	Present compliance status by RSPCB
4.	Unit-wise Performance Assessment (composite sampling) of the STP w.r.t. Quality of treatment, Energy consumption, optimized Chlorine dosing biogas generation potential etc.	RSPCB to provide facility on chargeable basis and expenses to be borne by JDA.	JDA with some educational institute	Help in developing an effective improvement plan	JDA has already deposited requisite amount to RSPCB vide letter no. D-396 dated 26.08.2022 (Copy Enclosed for composite sampling.) State Board has conducted the composite sampling on dated 11.10.2022 and results of TSS, BOD and COD showing unit-wise performance of the STP tabulated below. Copy of analysis reports enclosed at Annex-I.
5.	Construction of Sludge drying/storage area	JDA	JDA	Proper management of sludge	-
6.	Detection & Repairing of leakages of biogas holder tank	JDA	JDA	Production of biogas	-
7.	Repair the flow meters, the sensor installed	JDA	JDA	Effective data logging	-
8.	Cleaning of sludge from the river bed	JDA	JDA	Cleaning of river bed and reduction in odorous environment	-

S.N O.	Action required	Responsible Agency	Execution Agency	Probable outcome	Present compliance status by RSPCB
Short term (1-3 months)					
1.	Procure and installation of OCEMS with server connectivity with RSPCB, CPCB	JDA	JDA	Continuous data dissemination	-
2.	Introduction of treatment improvising strategy viz. sludge cleaning of PST, SST & other tanks	JDA	JDA	Improved treatment quality	-
3.	Repair & optimize the chlorine dosing	JDA	JDA	Optimized chlorine dosing	-
4.	Survey of the command area & users (stone crusher, township horticulture, irrigation, etc.) of the treated wastewater and quantification of reuse potential	JDA	JDA& RSPCB along with Municipal Body	Record on the command area and users	In order to channelize the treated sewage, Water Resource Department has sanctioned Rs. 631 Lacs for construction of earthen channel in masonry and work has been started onsite which, is scheduled to complete by June,2024. Bed of the channel shall be earthen/Kachcha which will increase water table of the surrounding areas and irrigation may be possible in approx. 1000 Ha. Area. Length of the channel approx. 1650 meters and width approx. 6 meters.
5.	Plan for supplying the treated wastewater to the identified users, IEC activities & revenue model	JDA	JDA	Plan for utilization of the wastewater along with Agricultural University	-

S.N O.	Action required	Respon- sible Agency	Executio n Agency	Probable outcome	Present compliance status by RSPCB
6.	Survey & analysis of water quality of the open well/Dugwell on both banks of the river upto 15 Kms distance from the discharge point	JDA & RSPCB	RSPCB in cordication with JDA.	The analysis report shall provide insight into the present water quality and help in strategizing the restoration plan accordingly.	Survey of the water quality of the open well/Dugwell on both banks of the river up to 15 kms distance was conducted on 25/07/2022 by RSPCB Officials. Copy of analysis results enclosed at annex-II
Mid Term (4-12months)					
1.	Construction & strengthening of conveyance from discharge point to final point upto approx. 15 km distance	JDA	JDA & identified agency	No accumulation of partially treated wastewater & reduced odor issue.	-
2.	Arrangement of adequate tanker filling station for treated wastewater for utilization	JDA	JDA	The utilization of treated wastewater will increase with revenue generation	-
Long term (1-2 years)					
1.	Upgradation of STP to SBR based technology	JDA	JDA	Achieve prescribed discharge standards	-
Regular activity					

S.N O.	Action required	Responsible Agency	Execution Agency	Probable outcome	Present compliance status by RSPCB
1.	Monthly monitoring of STP treatment quality	RSPCB	RSPCB	Provide data for devising a quality improvement plan	State Board conducted monthly sampling from outlet of STP. Reports of analysis of the sampling conducted on dated 09/01/2023 & 21/02/2023 enclosed at annex- III. Results of sampling dated 20.03.2023 awaited.
2.	Monitoring of THMs	RSPCB	Sampling by RSPCB/third party and expenses to be borne by JDA	Provide data for optimizing the quality of treatment	In the matter it is submitted that RSPCB does not have the facilities for testing of THMs. Hence, JDA may get conducted the test from third party.
3.	Maintenance of the conveyance drain for treated wastewater	JDA	JDA & identified agency	No accumulation of the partially treated wastewater & no foul smell	-
4.	Proper management of the logbooks on details of effluent quantity, chemical use, biogas generation, electricity consumption, etc.	JDA	JDA & identified agency	Correct information shall guide in preparing the effective improvement plan	-

To assess the unit-wise performance of the plant, a Composite sampling was conducted on dated 11.10.2022. The statement of results of analysis showing unit wise performance is tabulated asunder:

Parameters (in mg/l)	Inlet	O/I of grit chamber	O/I of primary clarifier_1	O/I of primary clarifier_2	O/I of secondary clarifier_1	O/I of secondary clarifier_2	Final O/I
TSS	648	564	200	212	98	92	88
% treatment	-	12.96	69.13	67.28	84.87	85.80	86.41
BOD	190	181	148	133	25	24	17
% treatment	-	4.73	22.10	30	86.84	87.36	91.0
COD	664	648	530	537	158	154	107
% treatment	-	2.40	20.18	19.13	76.20	76.80	83.88



Rajasthan State Pollution Control Board

Headquarter, 4, Institutional Area, Jhalana Doongri, Jaipur-302004.
Phone : 0141-2711263,2716802 e-mail : member-secretary@rpcb.nic.in

RSPCB Help Line No. : 0141-2716877

No. F14(Tech_Jaipur)/9-STP/RPCB/L.W/2/80

Date: 17.03.2023

Secretary,
Local Self Government (LSG) Department
Government of Rajasthan,
Jaipur.

Sub: Regarding compliance of Hon'ble National Green Tribunal's (NGT) order dated 25.04.2022 passed in the matter of O.A. No. 80/2021 (CZ), Captain Satyender Kumar Singh v/s State of Rajasthan.

Sir,

With reference to the above, it is to inform you that the Hon'ble NGT has taken cognizance in the matter related to discharge of untreated sewage in river Bandi and improper functioning of Sewage Treatment Plant (STP) set up and operated by Jaipur Development Authority (JDA) at Gajadharpura, Kalwar Road, Jaipur, for treatment of sewage in the nearby area. The Hon'ble NGT has directed that, interalia (Annexure-1):-

".....Accordingly, JDA as a responsible public body, must take emergency measures to ensure remedial action in a time bound manner. Till compliance, the compensation assessed has to be adequate to cover the cost of restitution and also deterrent and not on any formula which does not take into account these essential components. Let the joint Committee work out and recover such compensation within one month. The same be credited to a separate account to be used for restoration, by preparing an action plan. Pending further action, we direct JDA to deposit a sum of Rs. 2 Crores towards interim compensation with the District Magistrate, Jaipur. The same be used for restoration by preparing an action plan by CPCB and State PCB in coordination with the JDA, to be executed through an appropriate agency which may be determined by CPCB, State PCB and District Magistrate, in coordination with the JDA. Pending restoration of the work, immediate interim measures may be taken to ensure that no untreated sewage or waste water is discharged in a water body or in open in violation of law. The restoration plan may also include measures to utilize the treated water for non-potable purposes, including for industrial purposes, gardening or railway washing. The immediate restoration measures may include preventing untreated sewage being let off near the school, as found earlier. Action plan should include maintenance of conveyance system for utilisation of treated water (compliant with norms), defining command area and users for irrigating the fields with well laid out protocols to prevent damage to the ground water, maintenance of sludge and biogas recovery, preventing formation of THMs (backed up analytical data) and working out sewage utilisation plan for industrial and other bulk consumers in coordination with SPCB, CPCB, RIICO, Industries Department, and others. This plan should also be made applicable to other operating STPs in Jaipur and other parts in the State."

In view of the above, it is requested to direct the concerned officials to take prompt action for ensuring compliance of Hon'ble NGT order passed on 25.04.2022 and prepare sewage utilisation plan for industrial and other bulk consumers in coordination with RSPCB, CPCB, RIICO, Industries Department, and others.

Encl: As above.

Yours sincerely,

(B. Praveen)
(B. Praveen)

Member Secretary

on



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Rajasthan State Pollution Control Board

Headquarter, 4, Institutional Area, Jhalana Doongri, Jaipur-302004.
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No. F14(Tech_Jaipur)/9-STP/RPCB/L.W/2151

Date: 17.03.2023

Principal Secretary,
Urban Development and Housing (UDH) department
Government of Rajasthan,
Jaipur.

Sub: Regarding compliance of Hon'ble National Green Tribunal's (NGT) order dated 25.04.2022 passed in the matter of O.A. No. 80/2021 (CZ), Captain Satyender Kumar Singh v/s State of Rajasthan.

Sir,

With reference to the above, it is to inform you that the Hon'ble NGT has taken cognizance in the matter related to discharge of untreated sewage in river Bandi and improper functioning of Sewage Treatment Plant (STP) set up and operated by Jaipur Development Authority (JDA) at Gajadharpura, Kalwar Road, Jaipur, for treatment of sewage in the nearby area. The Hon'ble NGT has directed that, inter alia (Annexure-1):-
".....Accordingly, JDA as a responsible public body, must take emergency measures to ensure remedial action in a time bound manner. Till compliance, the compensation assessed has to be adequate to cover the cost of restitution and also deterrent and not on any formula which does not take into account these essential components. Let the joint Committee work out and recover such compensation within one month. The same be credited to a separate account to be used for restoration, by preparing an action plan. Pending further action, we direct JDA to deposit a sum of Rs. 2 Crores towards interim compensation with the District Magistrate, Jaipur. The same be used for restoration by preparing an action plan by CPCB and State PCB in coordination with the JDA, to be executed through an appropriate agency which may be determined by CPCB, State PCB and District Magistrate, in coordination with the JDA. Pending restoration of the work, immediate interim measures may be taken to ensure that no untreated sewage or waste water is discharged in a water body or in open in violation of law. The restoration plan may also include measures to utilize the treated water for non-potable purposes, including for industrial purposes, gardening or railway washing. The immediate restoration measures may include preventing untreated sewage being let off near the school, as found earlier. Action plan should include maintenance of conveyance system for utilisation of treated water (compliant with norms), defining command area and users for irrigating the fields with well laid out protocols to prevent damage to the ground water, maintenance of sludge and biogas recovery, preventing formation of THMs (backed up analytical data) and working out sewage utilisation plan for industrial and other bulk consumers in coordination with SPCB, CPCB, RIICO, Industries Department, and others. This plan should also be made applicable to other operating STPs in Jaipur and other parts in the State."

In view of the above, it is requested to direct the concerned officials to take prompt action for ensuring compliance of Hon'ble NGT order passed on 25.04.2022 and prepare sewage utilisation plan for industrial and other bulk consumers in coordination with RSPCB, CPCB, RIICO, Industries Department, and others.
Encl: As above.

Yours sincerely,

(B. Praveen)

Member Secretary