BEFORE THE HON'BLE NATIONAL GREEN TRIBUNAL
PRINCIPAL BENCH, NEW DELHI

Execution Application No. 24/2023
In
Original Application No. 44/2022
(IA No 488/2024, IA No 277/2024)

Saket Girls P.G. College ...Applicant

Versus

State of Uttar Pradesh. ...Respondent

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Through

Priyanka

Date: 06.05.2025
Place: New Delhi

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COMPLIANCE REPORT ON BEHALF OF THE EXECUTIVE OFFICER, NAGAR PALIKA PARISHAD, BELHA, PRATAPGARH, ALONGWITH THE SUPPORTING AFFIDAVIT.

MOST RESPECTFULLY SHOWETH:

1. That this compliance report is filed in faithful obedience to the directions dated 31-01-2025 of this Hon'ble Tribunal in Execution Application No. 24/2023 arising out of O.A. No. 44/2022.

2. That the land on which Saket Girls P.G. College and the adjoining habitations of Dahilamau, Bhuliyapur and Jankipuram are situated was earlier governed by Gram Sabha Dahilamau, a rural body that had only basic civic powers and no planned drainage system; consequently rain- and waste-water used to spread over low-lying fields and collect within the College campus.

3. Further, by Government Notification dated 31-12-2019 issued under Sections 3 and 5-A of the U.P. Municipalities Act, 1916, the entire Gram Sabha area was included in Nagar Palika Parishad, Belha-Pratapgarh ("NPP Belha"), and from that date the duty to provide drainage, sanitation and allied works passed to this Respondent; a certified copy of the Notification is annexed as **Annexure-1.**

4. Further, immediately after taking charge, NPP Belha arranged high-capacity suction pumps to lift the stagnant water from the College premises and convey it to the nearest Sewage Treatment Plant, and these pumps have been operated round-the-clock ever since July 2022; the log-sheets and corresponding STP-inlet registers are collectively annexed as **Annexure-2.**

5. Thereafter, to give a permanent solution as required by the order dated 01-07-2022, NPP Belha prepared a covered drain scheme measuring 1,288 metres; in the first phase the State Government sanctioned works for 920 metres, and after completing estimates, technical sanctions and open tendering in June 2024 the work commenced on site.

6. That progress slowed when the then Executive Officer was suspended on 29-06-2024 (order annexed as **Annexure-3**); however, the undersigned assumed charge on 19-07-2024 (certificate annexed as **Annexure-4**), held weekly site meetings and restored normal pace of construction.

7. That the full length of **920 metres** of pucca covered drain—starting at the transformer beside Saket Girls P.G. College, running along the main road to Premium Palace and branching from Plaza Palace on Gaighat Road to New Basti, Jankipuram—was completed on **06-05-2025**, is now working smoothly,

and is supported by GPS-tagged photographs, the measurement abstract and Work Completion Certificate No. 200/N.P.P-2, together annexed as **Annexure-5.**

8. Further, at the outlet of the new drain a **Constructed Wetland of 2.5 MLD capacity** has been built at Bhuliyapur on the Sub-Surface Vertical Flow principle; the Junior Engineer of Jal Nigam (Urban) checks inlet and outlet every day, and the latest results show BOD below 10 mg/L and TSS below 20 mg/L; the flow diagram and weekly test sheets (April 2024–March 2025) are annexed as **Annexure-6.**

9. Further, until the masonry link is finished, a temporary earthen channel beside the site carries the entire flow to the wetland, so that no untreated water enters the Sai River.

10. That 2 MLD treated water from the wetland is now diverted Sai River, further 0.5 MLD treated water is used for irrigation of horticulture by using 10 Tanker with the capacity of 5000ltrs each.

11. Further, the Monitoring Committee on 14 Jan 2025 sent the report to the District magistrate and subse quently the final report was finalised on 16Jan 2025November 2024.

12. That Special Leave Petition (Civil) Diary No. 52944/2024 challenging the cost of ₹ 5 lakh imposed by order dated 28-08-2024 is pending before the Hon'ble Supreme Court, but the same does not affect the factual compliance shown herein; a copy of the petition and the latest cause-list are annexed as **Annexure-7.**

13. It is, therefore, most humbly and respectfully prayed that in view of the comprehensive compliance undertaken by Nagar Palika Parishad, Belha-Pratapgarh in accordance with the directions of this Hon'ble Tribunal, the present Execution Application No. 24/2023 may graciously be disposed of as the purpose of the proceedings now stands duly fulfilled

Through

Date: 06.05.2025
Place: New Delhi

PRIYANKA SWAMI
ADVOCATE
Counsel for Nagar Palika Parishad, belha, Pratapgarh
F-13, JANGPURA, NEW DELHI 110014

IN THE HON'BLE NATIONAL GREEN TRIBUNAL

PRINCIPAL BENCH, NEW DELHI

ORIGINAL APPLICATION NO. 44 OF 2022

Saket Girls P.G. College ...Applicant

Versus

State of Uttar Pradesh. ...Respondent

AFFIDAVIT

I, **RAKESH KUMAR,** aged about 50 years s/o Sh. LAKSHMI PRASAD JAISWAL is presently posted as **Executive Officer, Nagar Palika Parishad, Belha, District-Pratapgarh, Uttar Praadesh.**

1. That I am posted as stated above and well conversant with the facts of the present case and as such competent to swear this affidavit before this Tribunal.
2. That the accompanying Report has been drafted by our counsel upon my instructions.
3. That the contents of the accompanying Report are true and correct, and the knowledge has been derived from official records and nothing material has been concealed therefrom.

नोटरी श्याम नारायण पाण्डेय मुख्यालय—प्रतापगढ़ रजि0 नं0 23 (38) 2011 उत्तर प्रदेश सरकार

08/5/2025

DEPONENT

VERIFICATION

Verified on solemn affirmation at _____ on this _____ day of May 2025, that the contents of the foregoing affidavit are true and correct to the best of my knowledge and no part of it is false and nothing material has been concealed therefrom.

08/5/2025

DEPONENT

Annexure 1

कार्यालय नगरपालिकापरिषदबेल्हा–प्रतापगढ़।

संख्याः 750/न0पा0परि0–2024 दिनांकः 09 नवम्बर,224

सेवामें,

अपरजिलाधिकारी (वि/रा0),/
जॉचसमिति अध्यक्ष
प्रतापगढ़।

विषय :– दिनांक 28 अक्टूबर, 2024 को प्राप्त निर्देश की अनुपालन आख्या प्रेषण के सम्बन्ध में।

महोदय,

कृपयाकार्यालय जिलाधिकारी, प्रतापगढ़ के कार्यालय ज्ञाप संख्या–2588/एल0बी0सी0–2024 दिनांक 19 अक्टूबर, 2024 द्वारा मा0 राष्ट्रीय हरित अधिकरण, नई दिल्ली में योजित Execution application No 24/2023 (I.A No 277/2024) in OA No 44/2022 साकेत गर्ल्स पी0जी0 कालेज वनाम स्टेट ऑफ यू0पी0 में पारित आदेश दिनांक 21–11–2024 के प्रस्तर–34(iv) के क्रम में गठित समिति की बैठक दिनांक 28–10–2024 को नगरपालिका परिषद बेल्हा–प्रतापगढ़ के कार्यालय पत्र संख्या–1248/न0पा0परि0–2013 दिनांक 07 नवम्बर, 2013/2017 को निर्गत प्रमाण–पत्र बावत् साकेत गर्ल्स डिग्री कालेज, दहिलामऊ, प्रतापगढ़ नगरपालिका सीमान्तर्गत दहिलामऊ (दक्षिणी) वार्ड में स्थित है, से सम्बन्धित आख्या उपलब्ध कराये जानें के निर्देश दिये गय है।

उक्त के सम्बन्ध में अवगत कराना है कि नगरपालिका परिषद बेल्हा–प्रतापगढ़ द्वारा निर्गत कार्यालय पत्र संख्या–1248/न0पा0परि0–2013 दिनांक 07 नवम्बर, 2013/2017 से सम्बन्धित प्रमाण–पत्र प्रथम दृष्टियॉ कूटरचित परिलक्षित होना पाया जाता है, क्योंकि उक्त क्षेत्र नगरपालिका परिषद बेल्हा–प्रतापगढ़ में उत्तर प्रदेश शासन नगर विकास अनुभाग–6 की अधिसूचना संख्या–1990/नौ–6–2019–05सी0वि0/2016 दिनांक 31 दिसम्बर, 2019 को सम्मिलित हुआ है, (सुलभ सन्दर्भ हेतु अधिसूचना की प्रति अवलोकनार्थ संलग्न है) जिससे उक्त प्रमाण–पत्र कार्यालय से निर्गत होने का कोई औचित्य ही नही है।

अतएव उपरोक्तानुसार आख्या सेवा में सादर प्रेषित है।

संलग्नकः–उपरोक्तानुसार।

09/11/2024

अधिशासी अधिकारी
नगरपालिका परिषद बेल्हा–प्रतापगढ़।

उत्तर प्रदेश शासन
नगर विकास अनुभाग–6
संख्या–1990/नौ–6–2019–05सी.वि./2016
लखनऊ : दिनांक 31 दिसम्बर, 2019

अधिसूचना

चूँकि उत्तर प्रदेश नगर पालिका अधिनियम, 1916 (उत्तर प्रदेश अधिनियम संख्या–2, सन 1916) की धारा–4 की उपधारा (1) की अपेक्षानुसार नगर पालिका परिषद बेल्हा जिला प्रतापगढ़ के लघुत्तर नगरीय क्षेत्र में नीचे अनुसूची–1 में विनिर्दिष्ट क्षेत्रों को सम्मिलित करने के प्रस्ताव पर आपत्तियॉ एवं सुझाव आमंत्रित करने के लिये सरकारी अधिसूचना संख्या–1870/नौ–6–2018–05सी.वि./2016 दिनांक 17 जुलाई, 2019 गजट में प्रकाशित की गयी थी।

और चूँकि निर्धारित अवधि में प्राप्त आपत्तियों एवं सुझावों का निस्तारण शासनादेश संख्या–1584/नौ–6–2019–05 सी0वि0/2016, दिनांक 08 नवम्बर, 2019 द्वारा कर दिया गया है ;

अतएव, अब, उत्तर प्रदेश नगर पालिका अधिनियम, 1916 (उत्तर प्रदेश अधिनियम संख्या 2 सन 1916) की धारा 3 की उपधारा (2) के साथ पठित संविधान के अनुच्छेद 243–थ के खण्ड (2) के अधीन शक्तियों का प्रयोग करके राज्यपाल नीचे अनुसूची–1 में विनिर्दिष्ट क्षेत्रों को, भारत का संविधान के भाग 9–क के प्रयोजनों के लिये नगर पालिका परिषद, बेल्हा, जिला प्रतापगढ़ के लघुत्तर नगरीय क्षेत्र में सम्मिलित करती हैं और संविधान के अनुच्छेद 243त के खण्ड (घ) के अधीन अग्रतर अधिसूचित करती हैं कि नीचे अनुसूची–2 में विनिर्दिष्ट क्षेत्र, इस अधिसूचना के गजट में प्रकाशित किये जाने के दिनांक से उक्त नगर पालिका परिषद, बेल्हा, जिला प्रतापगढ़ का प्रादेशिक क्षेत्र होगा।

ग्राम पूरे नरसिंहभान के सीमा रेखा पर स्थित गाटा संख्या का विवरण निम्नलिखित है :–

पूर्व – ग्राम पूरे नरसिंहभान की गाटा संख्या – 45, 46, 47, 48, 55, 56, 57, 58, 60, 61, 62, 64, 65, 66, 73, 74, 75, 77, 78, 117, 119, 120, 138, 139.

पश्चिम– ग्राम पूरे नरसिंहभान की गाटा संख्या – 5, 6, 7, 8, 11, 91, 92, 93, 94, 95, 96, 97, 98, 180, 183, 189, 188.

उत्तर– ग्राम पूरे नरसिंहभान की गाटा संख्या – 1, 2, 39, 40. 41.

दक्षिण– ग्राम पूरे नरसिंहभान की गाटा संख्या – 188, 187, 186, 177, 176, 166, 165, 160, 159.

13. <u>ग्राम जिरियामऊ (आंशिक) गाटा संख्या</u> :–156, 157,158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183.

कुल गाटा संख्या : 28

कुल क्षेत्रफल : 9.903 हेक्टेयर

ग्राम जिरियामऊ के सीमा रेखा पर स्थित गाटा संख्या का विवरण निम्नलिखित है :–

पूर्व – ग्राम जिरियामऊ की गाटा संख्या – 4, 142, 143, 150, 151, 160, 161, 162, 163, 174, 177, 189, 182.

पश्चिम– ग्राम जिरियामऊ की गाटा संख्या – 24, 25, 27; 45, 48, 49, 50, 62, 63.

उत्तर– ग्राम जिरियामऊ की गाटा संख्या – 1, 2, 3.

दक्षिण– ग्राम जिरियामऊ की गाटा संख्या – 64, 65, 66, 67, 68, 69, 183.

14. <u>ग्राम दहिलामऊ (आंशिक) गाटा संख्या</u> :–1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342,

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कुल गाटा संख्या : 691

कुल क्षेत्रफल : 419.451 हेक्टेयर

ग्राम दहिलामऊ के सीमा रेखा पर स्थित गाटा संख्या का विवरण निम्नलिखित है :–

पूर्व – ग्राम दहिलामऊ की गाटा संख्या – 455, 457, 468, 463, 464, 465, 484, 485, 509, 511, 512, 536, 537, 566, 568, 569, 570, 571, 572.

पश्चिम– ग्राम दहिलामऊ की गाटा संख्या – 29, 32, 33, 34, 35, 36, 42, 43, 44, 86, 87, 88, 89, 724, 725, 726, 727, 757, 769, 770, 772, 776, 779, 780, 783, 784, 785, 786, 787, 788.

उत्तर– ग्राम दहिलामऊ की गाटा संख्या – 1, 10, 65, 66, 130, 132, 221, 233, 235, 236, 260, 161, 262, 263, 264, 434, 444, 445, 449, 450, 451, 452, 453, 454.

दक्षिण– ग्राम दहिलामऊ की गाटा संख्या – 790, 791, 792, 793, 902, 903, 907, 908, 909, 910, 1044, 1039, 1030, 1028, 1029.

15. <u>ग्राम पूरे ईश्वरनाथ गाटा संख्या</u> :–1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162,

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कुल गाटा संख्या – 13222
कुल क्षेत्रफल–3946.044 हेक्टेयर

इस प्रकार उपयुक्त ग्राम की समस्त गाटा संख्याओं से सीमा प्रारम्भ होती है, जिसके अधीन आच्छादित गांवों का कुल क्षेत्रफल 3946.044 हेक्टेयर है।

दिनांक– दिसम्बर, 2019

आज्ञा से,

(मनोज कुमार सिंह)
प्रमुख सचिव।

कार्यालय नगर पालिका परिषद् बेल्का, प्रतापगढ़

संख्या 1248 / न०पा०परि०-2013 दिनांक 01 नवम्बर 2013

प्रमाणित किया जाता है कि साकेत गर्ल्स डिग्री कालेज, दहिलामऊ, प्रतापगढ़ नगर पालिका सीमा अर्न्तगत दहिलामऊ (दक्षिणी) वार्ड में स्थित है।

अधिशासी अधिकारी
नगर पालिका परिषद
बेल्का, प्रतापगढ़

प्रबन्धक
साकेत गर्ल्स डिग्री कालेज
दहिलामऊ-प्रतापगढ़

कार्यालयः नगरपालिका परिषद् बेल्हा–प्रतापगढ़।

साकेत गर्ल्स पी0जी0 कॉलेज, गाय घाट रोड़ प्रतापगढ़ में जलभराव के निस्तारण में में प्रयुक्त संसाधन यथा 02 पंपिंग सेट एवं सक्शन मशीन में डीजल व्यय एवं तैनात किये गये 08 कर्मचारियों का वेतन व्यय माह– जुलाई, अगस्त एवं सितम्बर, 2024 का विवरण निम्नवत् है :–

01–(I)पंपिंग सेट एवं सक्शन मशीन पर माह जुलाई में डीजल व्ययः

पंपिंग सेट/सक्शन मशीन	डीजल व्यय (24 घण्टा)	माह–जुलाई(दिन)	कुल डीजल
पंपिंग सेट नं0–01	25 लीटर	18	450 लीटर
पंपिंग सेट नं0–02	25 लीटर	20	500 लीटर
सक्शन मशीन (5000 लीटर क्षमता)	20 लीटर (06 चक्कर)	28	560 लीटर
कुल डीजल (माह जुलाई)			1510 लीटर

माहः जुलाई में डीजल व्यय : 1510 ली0 X 88.74 रूपया = 1,33,997 रूपया

(II)पंपिंग सेट एवं सक्शन मशीन पर माह अगस्त में डीजल व्ययः

पंपिंग सेट/सक्शन मशीन	डीजल व्यय (24 घण्टा)	माह–अगस्त(दिन)	कुल डीजल
पंपिंग सेट नं0–01	25 लीटर	21	525 लीटर
पंपिंग सेट नं0–02	25 लीटर	24	600 लीटर
सक्शन मशीन (5000 लीटर क्षमता)	20 लीटर (06 चक्कर)	29	580 लीटर
कुल डीजल (माह अगस्त)			1705 लीटर

माहः अगस्त में डीजल व्यय : 1705 ली0 X 88.74 रूपया = 1,51,301 रूपया

(III)पंपिंग सेट एवं सक्शन मशीन पर माह सितम्बर में डीजल व्ययः

पंपिंग सेट/सक्शन मशीन	डीजल व्यय (24 घण्टा)	माह–सितम्बर(दिन)	कुल डीजल
पंपिंग सेट नं0–01	25 लीटर	26	650 लीटर
पंपिंग सेट नं0–02	25 लीटर	22	550 लीटर
सक्शन मशीन (5000 लीटर क्षमता)	20 लीटर (06 चक्कर)	28	560 लीटर
कुल डीजल (माह सितम्बर)			1760 लीटर

माह,सितम्बर में डीजल व्यय : 1760 ली0 X 88.74 रूपया = 1,56,182 रूपया

कुल डीजल व्यय (माह जुलाई, अगस्त एवं सितम्बर) : 1,33,997 + 1,51,301 + 1,56,182
=4,41,480 रूपया

2024

अधिशासी अधिकारी
नगर पालिका परिषद
प्रतापगढ़

02– शासन संविदा कर्मचारी संख्या–06

मासिक देय वेतन प्रति कर्मचारी : 23730 रूपया
=23730 X 6
= 1,42,380 रूपया (01 माह)

माहः जुलाई, अगस्त एवं सितम्बर में देय वेतनः भुगतान 1,42,380 रूपया (01 माह) X 3
=4,27,140 रूपया

03– आउटसोर्सिंग कर्मचारी संख्या–02

मासिक देय वेतन प्रति कर्मचारी : 13,530 रूपया
=13,530 X 2
= 27,060 रूपया (01 माह)

माहः जुलाई, अगस्त एवं सितम्बर में देय वेतनः भुगतान 27,060 रूपया (01 माह) X 3
=81,180 रूपया

क्रमांक	डीजल (रूपया)	शासन संविदा कर्मचारी (रूपया)	आउटसोर्सिंग कर्मचारी (रूपया)	कुल योग
01, 02, एवं 03 (योग)	4,41,480 /–	4,27,140/–	81,180/–	9,49,800/–

अतः उपरोक्तानुसार विगत् 03 माह में कराये गये कार्य की लगभग कुल धनराशि 9,49,800/– रूपये का व्यय किया गया है।

11/11/2024

11/11/2024
संतोष कुमार सिंह
सफाई निरीक्षक
नगर पालिका परिषद
बेल्हा-प्रतापगढ़

11/11/2024
अधिशासी अधिकारी
नगर पालिका परिषद
बेल्हा–प्रतापगढ़
11/11/24

नगर निकाय निदेशालय, उ0प्र0,
सेक्टर–7, गोमती नगर विस्तार, लखनऊ।

संख्या–2/602–/125–।।/589–अ0अ0नपाप–3/16 लखनऊः दिनांक 29 जून, 2024

कार्यालय–आदेश

नगर पालिका परिषद, बेल्हा प्रतापगढ़ में स्थित एस0टी0पी0 (सीवरेज ट्रीटमेण्ट प्लाण्ट) एवं कन्स्ट्रक्टेड वेटलैण्ड का दिनांक 02.05.2024 को औचक निरीक्षण किया गया। निरीक्षण के समय श्री राम अचल कुरील, अधिशासी अधिकारी, नगर पालिका परिषद, बेल्हा प्रतापगढ़ उपस्थित नहीं थे और निरीक्षण में पाया गया कि वेटलैण्ड साइट पर ठोस अपशिष्ट को डम्प किया जा रहा है तथा उसमें अग्नि लगी है, जो सॉलिड वेस्ट मैनेजमेण्ट रूल्स, 2016 एवं स्वच्छ भारत मिशन–नगरीय के दिशा–निर्देशों के सर्वथा विपरीत है। इसप्रकार नगर पालिका परिषद, बेल्हा प्रतापगढ़ में ठोस अपशिष्ट प्रबन्धन वैज्ञानिक तरीके से नहीं किया जा रहा है, जो सॉलिड वेस्ट मैनेजमेण्ट रूल्स, 2016 एवं शासन के आदेशों की अवहेलना की जा रही है।

2– इस संबंध में श्री राम अचल कुरील, अधिशासी अधिकारी, नगर पालिका परिषद, बेल्हा प्रतापगढ़ को निदेशालय के पत्रांक–पी0ए0/437/नि0कैम्प/2024, दिनांक 08.05.2024 द्वारा कारण बताओ नोटिस जारी करते हुये स्पष्टीकरण उपलब्ध कराने के निर्देश दिये गये, जिसके सम्बन्ध में श्री राम अचल कुरील द्वारा कारण बताओ नोटिस का उत्तर पत्र दिनांक 13–05–2024 द्वारा दिया गया, श्री कुरील का उत्तर संतोषजनक नहीं पाया गया।

3– अतः श्री राम अचल कुरील, अधिशासी अधिकारी श्रेणी–2, नगर पालिका परिषद, बेल्हा प्रतापगढ़ द्वारा कार्यालय से अनुपस्थित रहने, वेट लैण्ड साईट पर ठोस अपशिष्ट को डम्प कराये जाने एवं उसमें अग्नि लगी होने तथा ठोस अपशिष्ट प्रबन्धन वैज्ञानिक तरीके से न करके सॉलिड वेस्ट मैनेजमेण्ट रूल्स, 2016 एवं स्वच्छ भारत मिशन–नगरीय के दिशा–निर्देशों का उल्लंघन करने एवं शासन के आदेशों की अवहेलना करने के कारण उ0प्र0 पालिका (केन्द्रीयित) सेवा नियमावली, 1966 के नियम–37(3) एवं उ0प्र0 सरकारी सेवक (अनुशासन एवं अपील) नियमावली, 1999 के सुसंगत प्राविधानों के अन्तर्गत श्री राम अचल कुरील, अधिशासी अधिकारी श्रेणी–2, नगर पालिका परिषद, बेल्हा (प्रतापगढ़) को एतद्द्वारा तात्कालिक प्रभाव से निलम्बित करते हुये विभागीय अनुशासनिक कार्यवाही संस्थित की जाती है एवं विभागीय अनुशासनिक कार्यवाही के संचालन हेतु श्रीमती ऋतु सुहास, अपर निदेशक, नगर निकाय निदेशालय, उ0प्र0, लखनऊ को जांच अधिकारी नामित किया जाता है। निलम्बन अवधि में श्री राम अचल कुरील कार्यालय जिलाधिकारी, प्रतापगढ़ से सम्बद्ध रहेंगें तथा उनके जीवन निर्वाह भत्ते आदि का भुगतान नगर पालिका परिषद, बेल्हा प्रतापगढ़ द्वारा सुनिश्चित किया जायेगा।

4– निलम्बन अवधि में श्री राम अचल कुरील को वित्तीय नियम संग्रह खण्ड–2 से 4 के मूल नियम–53 के प्राविधानों के अनुसार जीवन निर्वाह भत्तों की धनराशि अर्ध औसत वेतन पर अथवा अर्ध वेतन पर देय अवकाश वेतन के बराबर देय होगी तथा उन्हे जीवन निर्वाह भत्तों की धनराशि पर मंहगाई भत्ता यदि ऐसे अवकाश वेतन पर देय है, भी अनुमन्य होगा, किन्तु ऐसे अधिकारी को जीवन निर्वाह भत्ते के साथ कोई मंहगाई भत्ता देय नहीं होगा, जिन्हें निलम्बन के पूर्व प्राप्त वेतन के साथ कोई मंहगाई भत्ते अथवा मंहगाई भत्ते का उपान्तिक समायोजन प्राप्त नहीं था। निलम्बन के दिनांक को प्राप्त वेतन के आधार पर अन्य प्रतिकर भत्ते भी इस शर्त पर देय होंगे जब इसका समाधान हो जाये कि उनके द्वारा उक्त मद में व्यय वास्तव में किया जा रहा है, जिसके लिए उक्त प्रतिकर भत्ते अनुमन्य है।

5— उपर्युक्त प्रस्तर–4 में उल्लिखित मदों का भुगतान तभी किया जाएगा जबकि श्री राम अचल कुरील इस आशय का प्रमाण पत्र प्रस्तुत करें कि वह किसी अन्य सेवायोजन, व्यापार वृत्ति, व्यवसाय में नहीं लगे हैं।

6— जांच अधिकारी से अपेक्षा की जाती है कि जांच कार्यवाही शासनादेश संख्या–8/2022/725/सैंतालीस/का–1–2022/13(2)/2022, दिनांक 09.07.2021 के अन्तर्गत शीघ्रातिशीघ्र पूर्ण कर जांच आख्या अधोहस्ताक्षरी को उपलब्ध कराया जाना सुनिश्चित करें।

(डॉ0 नितिन बंसल)
निदेशक।

संख्या व दिनांक तदैवः—

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु।

1— विशेष सचिव, उ0प्र0 शासन, नगर विकास अनुभाग–4, लखनऊ।

ई–मेल/पंजीकृत 2— जिलाधिकारी, प्रतापगढ़ को उक्त आदेश की प्रति इस आशय से प्रेषित कि श्री राम अचल कुरील (निलम्बित) अधिशासी अधिकारी, नगर पालिका परिषद, बेल्हा प्रतापगढ़ को तामील कराकर कि सूचना निदेशालय को उपलब्ध कराने का कष्ट करें।

4— श्रीमती ऋतु सुहास, अपर निदेशक/जांच अधिकारी, नगर निकाय निदेशालय, उ0प्र0, लखनऊ को इस निर्देश के साथ प्रेषित कि तद्नुसार आरोप पत्र का गठन करके अनुमोदनोपरान्त जांच कार्यवाही तत्काल सुनिश्चित करें।

5— अध्यक्ष, नगर पालिका परिषद, बेल्हा प्रतापगढ़।

6— श्री राम अचल कुरील (निलम्बित) अधिशासी अधिकारी श्रेणी–2, नगर पालिका परिषद, बेल्हा प्रतापगढ़ द्वारा जिलाधिकारी, प्रतापगढ़।

29/6/22

(डॉ0 नितिन बंसल)
निदेशक।

उत्तर प्रदेश शासन
नगर विकास अनुभाग-4
संख्याः 2102 /नौ-4-24-01ई0ओ0/2024
लखनऊ दिनांकः 18 जुलाई, 2024

कार्यालय ज्ञाप

उत्तर प्रदेश पालिका (केन्द्रीयित) प्रशासी सेवा के अधिशासी अधिकारी श्रेणी-2 श्री राकेश कुमार, अधिशासी अधिकारी, नगर पालिका परिषद, खतौली जनपद-मुजफ्फरनगर को जनहित में तात्कालिक प्रभाव से नगर पलिका परिषद, बेल्हा (प्रतापगढ) में अधिशासी अधिकारी के पद पर तैनात किया जाता है।

2- श्री राकेश कुमार को अपनी नवीन तैनाती के स्थान पर कार्यभार ग्रहण करने हेतु स्वतः कार्यमुक्त किया जाता है। श्री राकेश कुमार कार्यभार ग्रहण करने की सूचना शासन/निदेशक, नगर निकाय निदेशालय, उ0प्र0, लखनऊ को अविलम्ब उपलब्ध कराया जाना सुनिश्चित करेंगे। आदेशों की अवहेलना अनुशासनहीनता मानी जायेगी, जिसके लिए संबंधित के विरुद्ध नियमानुसार विभागीय कार्यवाही की जायेगी।

धर्मेन्द्र प्रताप सिंह
विशेष सचिव।

संख्या-2102 /नौ-4-24-01ई0ओ0/2024 तद्दिनांक।

प्रतिलिपि निम्नलिखित को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषितः-

1. निदेशक, नगर निकाय निदेशालय, उ.प्र., लखनऊ।
2. जिलाधिकारी, मुजफ्फरनगर को इस आशय से प्रेषित कि उक्त आदेश की प्रति संबंधित को तामील कराते हुये शासन को तत्काल अवगत कराने का कष्ट करें।
3. जिलाधिकारी, प्रतापगढ़।
4. अध्यक्ष, नगर पालिका परिषद, खतौली (मुजफ्फरनगर)/बेल्हा (प्रतापगढ़)।
5. संबंधित अधिशासी अधिकारी।
6. गार्ड फाईल/कम्प्यूटर सेल।

आज्ञा से,
(मो0 वासिफ) 18.07.24
अनु सचिव।

कार्यालय नगरपालिका परिषद बेल्हा–प्रतापगढ़।

संख्याः 280 /न0पा0परि0–2025 दिनांकः 06 :मई, 2025

वर्क कम्प्लीटीशन सर्टिफिकेट प्रमाण–पत्र

प्रमाणित किया जाता है कि राज्य सेक्टर मद अन्तर्गत निर्माणाधीन नाला मुख्य मार्ग पर ट्रान्सफर्मर से साकेत डिग्री कालेज होते हुए मुख्य मार्ग पर प्रिमियम पैलेस के सामने तक कवर्ड नाला निर्माण कार्य एवं गायघाट रोड़ पर प्लाजा पैलेस के सामने से नई बस्ती जानकीपुरम तक कवर्ड नाला निर्माण कार्य की कुल लम्बाई 920 मीटर के सापेक्ष 920 मीटर नाला निर्माण कार्य शत–प्रतिशत पूर्ण किया जा चुका है अर्थात कार्य स्थल पर कराये गये कार्य की जी0पी0एस0 टैग फोटोग्राफ संलग्न है।

JE(C)

अवर अभियन्ता (सिविल)
नगरपालिका परिषद बेल्हा–प्रतापगढ़।

अधिशासी अधिकारी
नगरपालिका परिषद बेल्हा–प्रतापगढ़।

कार्यालय नगरपालिका परिषद बेल्हा–प्रतापगढ़।

संख्याः 281 /न0पा0परि0–2025 दिनांकः 06 :मई, 2025

वर्क कम्प्लीटीशन सर्टिफिकेट प्रमाण–पत्र

प्रमाणित किया जाता है कि राज्य सेक्टर मद अन्तर्गत निर्माणाधीन नाला दहिलामऊ उत्तरी वार्ड में स्थित शिवम दूबे के घर से जानकी पुरम् में भुलियापुर वेट लैण्ड तक कवर्ड नाला निर्माण कार्य कुल लम्बाई 368 मीटर के सापेक्ष 210 मीटर नाला निर्माण कार्य पूर्ण किया जा चुका है अर्थात कुल 57.06 प्रतिशत कार्य स्थल पर पूर्ण करा लिया गया है। कार्य की जी0पी0एस0 टैग फोटोग्राफ संलग्न है।

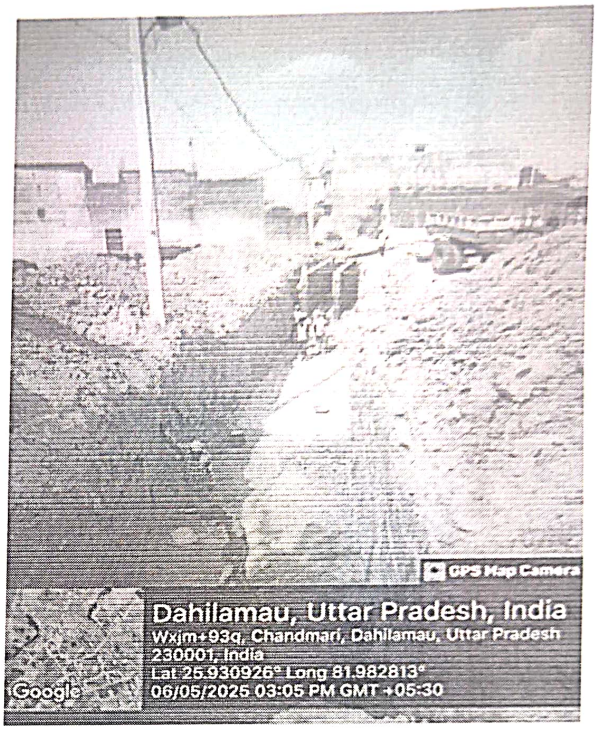
अवर अभियन्ता (सिविल)
नगरपालिका परिषद बेल्हा–प्रतापगढ़।

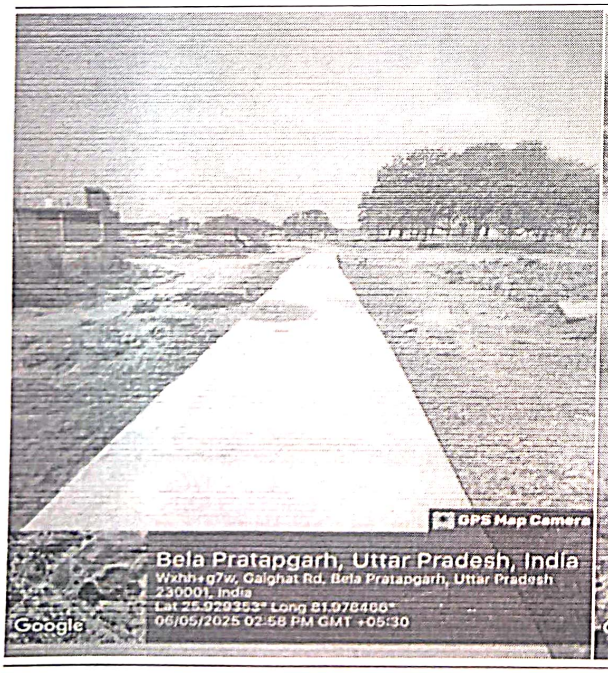
अधिशासी अधिकारी
नगरपालिका परिषद बेल्हा–प्रतापगढ़।

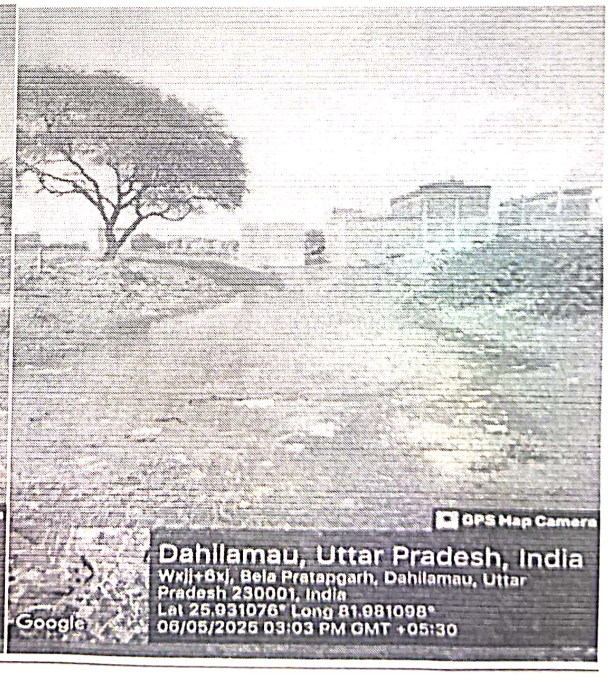
राज्य सेक्टर मद अन्तर्गत निर्माणाधीन नाला दहिलामऊ उत्तरी वार्ड में स्थित शिवम दूबे के घर से जानकी पुरम् में भुलियापुर वेट लैण्ड तक कवर्ड नाला को वेट लैण्ड से जोड़ने की फोटोग्राफ

JE(C)

राज्य सेक्टर मद अन्तर्गत निर्माणाधीन नाला दहिलामऊ उत्तरी वार्ड में स्थित शिवम दूबे के घर से जानकी पुरम् में भुलियापुर वेट लैण्ड तक कवर्ड नाला निर्माण







JE(C)

DESIGN CALCULATION OF 0.5 MLD SEWAGE TREATMENT PLANT BASED ON SUB-SURFACE VERTICAL UPFLOW CONSTRUCTED WETLAND (CW) TECHNOLOGY AT RAMLEELA MAIDAN, PRATAPGARH, UTTAR PRADESH.

DESIGN CALCULATION SHEET

The proposed STP is designed to treat the wastewater with following characteristics:

Mode of Operation	: Manual
Nature of Wastewater	: Drainage
Wastewater Daily Average Flow	: 200 Cum/ day
Peak factor	: 2.5
Designed Peak flow	: 200 * 2.5 = 500 Cum/ day

DESIGN CONSIDERATION

INLET CHARACTERISTICS:

pH	7.5 to 8.5
BOD_5	Up to 250 mg/l
COD	450 mg/l
Suspended solids	350 mg/l
Oil & Grease	30 mg/l

OUTLET CHARACTERISTICS:

pH	6.5 to 9.0
BOD_5	Not more than 30 mg/l
COD	Not more than 100 mg/l
Suspended solids	Not more than 50 mg/l
Oil & Grease	Less than 10 mg/l

SCREEN CHAMBER & APPROACH CHANNEL

The Approach channel is the unit from where the sewage will enter the screen chamber. I]=t is the first unit in the STP, so all the incoming sewage passes through its grill. Therefore, it should be able to handle the sewage (especially the peak flows) without overflowing.

There are two major factors to be considered:

1. Adequacy of the cross-sectional area of the chamber itself
2. Obstruction posed by the bars of the screen.
3. Remove floating particle larger than 10 mm.

The net opening should be adequate to allow proper flow of the sewage (especially during peak inflow).

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Parameter	Value/ Calculation	Remarks
Design daily flow	0.5 MLD	Quantity of sewage to be handled by the STP on daily basis.

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Design vetted by:
24/04/2024 24.4.24

DESIGN CALCULATION OF 0.5 MLD SEWAGE TREATMENT PLANT BASED O
SUB-SURFACE VERTICAL UPFLOW CONSTRUCTED WETLAND (CW) TECHNOLOG
AT RAMLEELA MAIDAN, PRATAPGARH, UTTAR PRADESH.

Designed hourly flow	= 500/ 24 = 20.83 m^3/ hr. = 20.83/ 60 m^3/min = 0.00578 m^3/sec	Average flow in respect with hour and second.
Approach Channel Length	3 m	***Reference: Technical Instructions on Sewage Management in MES, Page 35 of 64.***
Design flow velocity	0.6 m/ sec	This is the optimal velocity: • Sewage flowing at a higher velocity will forcibly push the debris through the screen. • Sewage flowing at a lower velocity will leave an excessive amount of sedimentation on the floor of the screen chamber.
Cross-sectional area of screen channel	= 0.00578/ 0.6 = 0.00963 m^2	
Adjust for the flow-area blocked by the bars	= 0.00963 m^2 x 1.8 = 0.01734 m^2	Cross-sectional area is increased by 80% to compensate for the obstruction posed by the bars of the grill. In general, the multiplication factor is (1 + W/ G) Where: G = Gap between two bars of the screen (here, 10 mm) W = Width of a bar (here, 5 mm).

IET Lucknow

GRIT SETTLING CUM OIL & GREASE CHAMBER

Grit chambers are long narrow tanks that are designed to slow down the flow so that solids such as sand, coffee grounds and eggshells will settle out of the water. Grit causes excessive wear and tear on pumps and other plant equipment.

Parameter	Value/Calculation	Remarks
Designed daily flow	0.5 MLD or 500 KLD	Quantity of sewage to be handled by the STP on daily basis.
Designed hourly flow	= 500/ 24 = **20.833 m^3/hr.** = 20.833/ 60 m^3/min = 0.3472 m^3/min	
Retention	1.5 min	Retention time to maintain optimal

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Design & Detailed by

DESIGN CALCULATION OF 0.5 MLD SEWAGE TREATMENT PLANT BASED ON SUB-SURFACE VERTICAL UPFLOW CONSTRUCTED WETLAND (CW) TECHNOLOGY AT RAMLEELA MAIDAN, PRATAPGARH, UTTAR PRADESH.

time		velocity for removal of Grit Particles Such as Sand, Eggshells etc.: • Minimum 0.5 min. • Maximum 1.5 min. And using this tank also as an oil and grease tank for removing most of the skimming particles.
Volume of Receiving Chamber	= 0.3472 x 1.5 min = 0.5208 m^3	Volume = retention time x Volume/ sec.

Reference: Wastewater Engineering by Metcalf Eddy. Chapter 5, page no. 387.
Reference: Technical Instructions on Sewage Management in MES, Page 37 of 64.

OIL AND GREASE CHAMBER

The fats that are separated in this unit are disposed of along with other biodegradable waste, and can be used as feed for piggeries. The grease is placed at the discharge point of the canteen/ kitchen area itself to arrest solid and fatty matter at source. The wastewater output from this unit is taken to the collection/ Anaerobic Baffle Reactor.

Parameter	Value/ Calculation	Remarks
Designed daily flow	0.5 MLD or 500 KLD	Quantity of sewage to be handled by the STP on daily basis.
Designed hourly flow	= 500/ 24 = **20.833 m^3/hr.** = 20.833/ 60 m^3/min = 0.3472 m^3/min	
Retention time	20 min	Retention time to maintain optimal velocity for removal of oil and grease: • Minimum 3 min. • Maximum 20 min.
Volume of Receiving Chamber	= 0.3472 x 20 = 6.944 m^3	Volume = retention time x volume/sec.
		Due to no manpower present in regular basis hence, taking a conservative approach for oil and grease removal. Providing 2 tank for safety features.

Reference: Technical Instructions on Sewage Management in MES, Page 37 of 64.

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Design vetted by us 24/04/2024 24.4.24

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DESIGN CALCULATION OF 0.5 MLD SEWAGE TREATMENT PLANT BASED ON SUB-SURFACE VERTICAL UPFLOW CONSTRUCTED WETLAND (CW) TECHNOLOGY AT RAMLEELA MAIDAN, PRATAPGARH, UTTAR PRADESH.

COLLECTION CUM ANAEROBIC BAFFLE REACTOR

Anaerobic suspended growth reactors, the suspended growth reactor are simply a tank in which nitrified wastewater is mixed with a carbon source, typically septic tank effluent. In some cases, nitrified wastewater is discharged back to the primary treatment stage, such as a septic tank, for denitrification.

Parameter	Value/ Calculation	Remarks
STP Capacity	0.5 MLD = 500 m^3/day	Quantity of sewage to be handled by the STP on daily basis.
Hourly inflow	= 500/ 24 m^3/hr. = 20.83 m^3/hr.	
Anoxic tank volume	= 20.83 m^3/hr. x 6 hr. = 125 m^3	Tank is designed to hold 6 to 24 hours of average flow. *Minimum Retention time is taken due to the variability of influent BOD that may vary from 60 to 250 mg/l in the Drainage System.*
No. of tanks	= 4 No.	

Reference: Wastewater Engineering : Metcalf & Eddy , page no. 1017

DISTRIBUTION TANK

For equal distribution of the outlet of anaerobic tank before entering it into plant bed.

Parameter	Value/Calculation	Remarks
Designed daily flow	0.5 MLD	Quantity of sewage to be handled by the STP on daily basis.
Designed hourly flow	= 500/ 24 = 20.83 m^3/ hr. = 20.83/ 60 m^3/ min = 0.348 m^3/ min	
Retention time	55 min	
Volume of Chamber	= 0.348 x 55 = 19.14 m^3	Volume = retention time x volume/ sec.

ANAEROBIC CUM UP FLOW VERTICAL PLANT BED SYSTEM

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DESIGN CALCULATION OF 0.5 MLD SEWAGE TREATMENT PLANT BASED ON SUB-SURFACE VERTICAL UPFLOW CONSTRUCTED WETLAND (CW) TECHNOLOGY AT RAMLEELA MAIDAN, PRATAPGARH, UTTAR PRADESH.

Area of the tank, $A = \frac{Q\,(ln\,(BOD_{in}) - ln\,(BOD_{out})}{K_{BOD}}$

(Reference: Manual on Constructed Wetland as an alternative Technology, CPCB 2019, Page 83)

Where,

A = Area of Constructed Wetland (m^2)

Q = Volume of Wastewater

BOD_{in} = Influent concentration of BOD (mg/l)

BOD_{out} = Effluent concentration of BOD (mg/l)

K_{BOD} = Removal Rate Constant (d^{-1})

$$k_{BOD} = KTdn$$

$K_T = K_{20}\,(1.06)^{(T-20)}$

K_{20} = rate constant @ 20°C (d^{-1}) = 0.12 to 0.46 d^{-1}

(Reference: Wastewater Engineering, Metcalf & Eddy, page no. 85)

d = Depth (m)

n = Porosity of CW (percentage expressed as fraction)

So,

Taking BOD_{in}= 250 mg/l, BOD_{out} = 30mg/l, Q= 500 m^3/d, d= 2.7m, n = 0.75

$K_{BOD} = K_T \times 25°C \times 2.7m \times 0.75$

$K_T = 0.23 \times (1.06)^{(25-20)} = 0.3077\ d^{-1}$

$K_{BOD} = 15.581\ d^{-1}$

Area of CW = $A = \frac{500 \times (ln(250) - ln(30))}{15.581}$

A = 68.0400 m^2.

Hence, providing tank area of 9 m^2 for each tank and providing 8 no. of tanks in 4 phases of 2 tanks each.

PLANT BED – Phase I

Parameter	Value/ Calculation	Remarks
STP Capacity	0.5 MLD = 500 m^3/day	Quantity of sewage to be handled by the STP on daily basis.
Hourly Sewage inflow	= 500/ 24 m^3/hr. = 20.83 m^3/hr.	

Design vetted by us

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DESIGN CALCULATION OF 0.5 MLD SEWAGE TREATMENT PLANT BASED O
SUB-SURFACE VERTICAL UPFLOW CONSTRUCTED WETLAND (CW) TECHNOLOG
AT RAMLEELA MAIDAN, PRATAPGARH, UTTAR PRADESH.

Plant Bed volume	= 18 m^2 x 2.7m = 48.6 m^3	Providing 9 m^2 area for each plant bed and each phase has 2 PB. Therefore, total area = 9 x 2 = 18 m^2
Freeboard	0.3 to 0.5 m	Selected by convention.
Water depth in tank (including freeboard)	= 3m	

PLANT BED – Phase II

Parameter	Value/ Calculation	Remarks
STP Capacity	0.5 MLD = 500 m^3/day	Quantity of sewage to be handled by the STP on daily basis.
Hourly sewage inflow	= 500/ 24 m^3/hr. = 20.83 m^3/hr.	
Plant Bed volume	= 18 m^2 x 2.7m = 48.6 m^3	Providing 9 m^2 area for each plant bed and each phase has 2 PB. Therefore, total area = 9 x 2 = 18 m^2
Freeboard	0.3 to 0.5 m	Selected by convention.
Water depth in tank (including freeboard)	= 3m	

PLANT BED – Phase III

Parameter	Value/ Calculation	Remarks
STP Capacity	0.5 MLD = 500 m^3/day	Quantity of sewage to be handled by the STP on daily basis.
Hourly sewage inflow	= 500/ 24 m^3/hr. = 20.83 m^3/hr.	
Plant Bed volume	= 18 m^2 x 2.7m = 48.6 m^3	Providing 9 m^2 area for each plant bed and each phase has 2 PB. Therefore, total area = 9 x 2 = 18 m^2
Freeboard	0.3 to 0.5 m	Selected by convention.
Water depth in tank (including freeboard)	= 3m	

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24/04/2024

PLANT BED – Phase IV

Parameter	Value/ Calculation	Remarks
STP Capacity	0.5 MLD = 500 m^3/day	Quantity of sewage to be handled by the STP on daily basis.

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Hourly sewage inflow	=.500/ 24 m^3/hr. = 20.83 m^3/hr.	
Plant Bed volume	= 18 m^2 x 2.7m = 48.6 m^3	Providing 9 m^2 area for each plant bed and each phase has 2 PB. Therefore, total area = 9 x 2 = 18 m^2
Freeboard	0.3 to 0.5 m	Selected by convention.
Water depth in tank (including freeboard)	= 3m	

CLEAR WATER TANK

Clear water tanks are commonly used to hold treated water prior to distribution or for disinfection purposes before releasing the treated water.

Parameter	Value/ Calculation	Remarks
STP Capacity	0.5 MLD = 500 m^3/day	Quantity of sewage to be handled by the STP on daily basis
Hourly inflow	= 500/ 24 m^3/hr. = 20.83 m^3/hr.	
Tank volume	= 20.83 m^3/hr. x 1 hr. = 20.83 m^3	Tank is designed to hold: - • Minimum 20 minutes. • Maximum 60 minutes. *Note: This is the usable volume, and does not include the freeboard.*
Freeboard	0.3 to 0.5 m	Selected by convention.
Water depth in tank (including freeboard)	= 2.0m to 3m	
Tank area	= 20.83/ 2.2 = 9.46 m^2	Area = Volume/ Depth *Note: Select length and width to suit the site conditions.*

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Design vetted by us
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DESIGN CALCULATION OF 2.5 MLD SEWAGE TREATMENT PLANT BASED ON SUB-SURFACE VERTICAL UPFLOW CONSTRUCTED WETLAND (CW) TECHNOLOGY, BHOLIYAPUR, PRATAPGARH, UTTAR PRADESH

DESIGN CALCULATION SHEET

The proposed STP is designed to treat the wastewater with following characteristics:

Mode of Operation	:	Manual
Nature of Wastewater	:	Drainage
Wastewater Daily Average Flow	:	1000 cum/day
Peak factor	:	2.5
Designed Peak flow	:	1000 * 2.5 = 2500 cum/day

DESIGN CONSIDERATION

INLET CHARACTERISTICS

pH	7.5 to 8.5
BOD_5	Up to 250 mg/l
COD	450 mg/l
Suspended solids	350 mg/l
Oil & Grease	30 mg/l

OUTLET CHARACTERISTICS

pH	6.5 to 9.0
BOD_5	Not more than 30 mg/l
COD	Not more than 100 mg/l
Suspended solids	Not more than 50 mg/l
Oil & Grease	Less than 10 mg/l

SCREEN CHAMBER & APPROACH CHANNEL

The approach channel is the unit from where the sewage will enter screen chamber. It is the first unit in the STP, so all the incoming sewage passes through its grill. Therefore, it should be able to handle the sewage (especially the peak flows) without overflowing.

There are two major factors to be considered:

1. Adequacy of the cross-sectional area of the chamber itself
2. Obstruction posed by the bars of the screen.

Remove floating particle larger than 10 mm.

The net opening should be adequate to allow proper flow of the sewage (especially during peak inflow).

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Parameter	Value/Calculation	Remarks
Designed daily flow	2.5 MLD	Quantity of sewage to be handled by the STP on daily basis.

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Designed hourly flow	= 2500/ 24 = 104.17 m^3/hr. = 104.17/ 3600 m^3/sec = 0.0289 m^3/sec	Average flow in respect with hour and second.
Approach Channel Length	3 m	*Reference: Technical Instructions on Sewage Management in MES, Page 35 of 64.*
Design flow velocity	0.6 m/ sec	This is the optimal velocity: • Sewage flowing at a higher velocity will forcibly push the debris through the screen. • Sewage flowing at a lower velocity will leave an excessive amount of sedimentation on the floor of the screen chamber.
Cross-sectional area of screen channel	= 0.0289/ 0.6 = 0.04816 m^2	
Adjust for the flow-area blocked by the bars	= 0.04816 m^2 x 1.8 = 0.0867 m^2	Cross-sectional area is increased by 80% to compensate for the obstruction posed by the bars of the grill. In general, the multiplication factor is (1+ W/ G) Where: G = Gap between two bars of the screen (here, 10 mm) W = Width of a bar (here, 5 mm).

GRIT SETTLING CUM OIL AND GREASE CHAMBER

Grit chambers are long narrow tanks that are designed to slow down the flow so that solids such as sand, coffee grounds and eggshells will settle out of the water. Grit causes excessive wear and tear on pumps and other plant equipment.

Parameter	Value/Calculation	Remarks
Designed daily flow	2.5 MLD	Quantity of sewage to be handled by the STP on daily basis.
Designed hourly flow	= 2500/ 24 = 104.17 m^3/hr. = 104.17/ 3600 m^3/sec = 0.0289 m^3/sec	
Retention time	1.5 min or 90 sec	Retention time to maintain optimal velocity for removal of oil and grease:

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Design vetted by us

7/04/2024

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		• Minimum 0.5 min. • Maximum 1.5 min. And using this tank also as an oil and grease tank for removing most of the skimming particles.
Volume of Receiving Chamber	= 0.0289 m^3/sec x 90 sec = 2.601 m^3	Volume = retention time x Volume/sec.

Reference: Wastewater Engineering by Metcalf Eddy. Chapter 5, page no. 387.
Reference: Technical Instructions on Sewage Management in MES, Page 37 of 64.

OIL AND GREASE CHAMBER

The fats that are separated in this unit are disposed of along with other biodegradable waste, and can be used as feed for piggeries. The grease is placed at the discharge point of the canteen/ kitchen area itself to arrest solid and fatty matter at source. The wastewater output from this unit is taken to the collection / Anaerobic Baffle Reactor.

Parameter	Value/Calculation	Remarks
Designed daily flow	2.5 MLD	Quantity of sewage to be handled by the STP on daily basis.
Designed hourly flow	= 2500/ 24 = 104.17 m^3/hr. = 104.17/ 3600 m^3/sec = 0.0289 m^3/sec	
Retention time	15 min or 900 sec	Retention time to maintain optimal velocity for removal of oil and grease: • Minimum 3 min. • Maximum 20 min.
Volume of Receiving Chamber	= 0.0289 x 900 sec = 26.01 m^3	Volume = retention time x volume/sec.

Reference: Technical Instructions on Sewage Management in MES, Page 37 of 64.

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COLLECTION CUM ANAEROBIC BAFFLE REACTOR

Anaerobic Baffle reactors are simply a tank in which nitrified wastewater is mixed with a carbon source, typically septic tank effluent. In some cases, nitrified wastewater is discharged back to the primary treatment stage, such as a septic tank, for denitrification.

Design vetted by us
24.4.2024

DESIGN CALCULATION OF 2.5 MLD SEWAGE TREATMENT PLANT BASED ON SUB-SURFACE VERTICAL UPFLOW CONSTRUCTED WETLAND (CW) TECHNOLOGY, BHOLIYAPUR, PRATAPGARH, UTTAR PRADESH

Parameter	Value/Calculation	Remarks
STP Capacity	2.5 MLD = 2500 m^3/day	Quantity of sewage to be handled by the STP on daily basis.
Hourly inflow	= 2500/ 24 m^3/hr. = 104.17 m^3/hr.	
Anoxic tank volume	= 104.17 m^3/hr. x 8 hr. = 833.33 m^3	Tank is designed to hold 6 to 24 hours of average flow. *Minimum Retention time is taken due to the variability of influent BOD that may vary from 60 to 250 mg/l in the Drainage System.*
No. of Tanks	= 16 No.	

Reference: Wastewater Engineering : Metcalf & Eddy , page no. 1017

DISTRIBUTION TANK

For equal distribution of the outlet of anaerobic tank before entering it into plant bed.

Parameter	Value/Calculation	Remarks
Designed daily flow	2.5 MLD	Quantity of sewage to be handled by the STP on daily basis.
Designed hourly flow	= 2500/ 24 = 104.17 m^3/hr. = 104.17/ 60 m^3/sec = 1.74 m^3/min	
Retention time	45 min	This tank is designed to break the flow of waste water before equally distributing it to the plant Bed.
Volume of Receiving Chamber	= 1.74 x 45 = 78.3 m^3	Volume = retention time x volume/sec.

Design vetted by us

24/04/2024

24.4.24

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Environmental Consultant
M-Tech Environmental Engg

M.N. National Institute of Technology Civil Engineering Department Allahabad

ANAEROBIC CUM UP FLOW VERTICAL PLANT BED SYSTEM

Area of the tank, $$A = \frac{Q\,(\ln(BOD_{in}) - \ln(BOD_{out})}{K_{BOD}}$$

(Reference: Manual on Constructed Wetland as an alternative Technology , CPCB 2019 , Page 83)

Where,

A = Area of Constructed Wetland (m^2)

Q = Volume of Wastewater

BOD_{in} = Influent concentration of BOD (mg/l)

BOD_{out} = Effluent concentration of BOD (mg/l)

K_{BOD} = Removal Rate Constant (d^{-1})

$$k_{BOD} = KTdn$$

$K_T = K_{20}\,(1.06)^{(T-20)}$

K_{20} = rate constant @ 20°C (d^{-1}) = 0.12 to 0.46 d^{-1}

(Reference: Wastewater Engineering, Metcalf & Eddy, page no. 85)

d = Depth (m)

n = Porosity of CW (percentage expressed as fraction)

So,

Taking BOD_{in}= 250 mg/l, BOD_{out} = 30mg/l, Q= 2500 m^3/d, d= 3.0 m, n = 0.75

$K_{BOD} = K_T$ x 25°C x 3.0 m x 0.75

$K_T = K_{20}\,(1.06)^{(T-20)}$

K_T = 0.363 x $(1.06)^{(25-20)}$ = 0.4857 d^{-1}

(Reference: Guideline for Constructed wetland systems, Namami Gange, National Mission for Clean Ganga, GOI , page no. 26)

K_{BOD} = 27.32 d^{-1}

Area of CW = $$A = \frac{2500 \times (\ln(250) - \ln(30))}{27.32}$$

A = 194.02 m^2.

Er WASEEM AHMAD
Environmental Consultant
M-Tech Environmental Engg

Provided Area = 230 m^2

Hence , Providing total 24 no. of tanks in 4 phases of 6 tanks each.

Design Verified by us

24.4.2024

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PLANT BED – Phase I

Parameter	Value/Calculation	Remarks
STP Capacity	2.5 MLD = 2500 m^3/day	Quantity of sewage to be handled by the STP on daily basis.
Hourly sewage inflow	= 2500/ 24 m^3/hr. = 104.17 m^3/hr.	
Water Depth	= 3 m	
Plant Bed volume	= 63 m^2 x 3 m = 189 m^3	Providing 10.5 m^2 area for each plant bed and each phase has 6 PB. Therefore, Total Area = **10.5 x 6 = 63 m^2.** *Note: Select length and width to suit the site conditions.*
Freeboard	0.3 to 0.5 m	Selected by convention.
Depth of tank (including freeboard)	= 3.5 m	

PLANT BED – Phase II

Parameter	Value/Calculation	Remarks
STP Capacity	2.5 MLD = 2500 m^3/day	Quantity of sewage to be handled by the STP on daily basis.
Hourly sewage inflow	= 2500/ 24 m^3/hr. = 104.17 m^3/hr.	
Water Depth	= 3 m	
Plant Bed volume	= 63 m^2 x 3 m = 189 m^3	Providing 10.5 m^2 area for each plant bed and each phase has 6 PB. Therefore, Total Area = **10.5 x 6 = 63 m^2.** *Note: Select length and width to suit the site conditions.*
Freeboard	0.3 to 0.5 m	Selected by convention.
Depth of tank (including freeboard)	= 3.5 m	

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PLANT BED – Phase III

Parameter	Value/Calculation	Remarks
STP Capacity	2.5 MLD = 2500 m^3/day	Quantity of sewage to be handled by the STP on daily basis.
Hourly sewage inflow	= 2500/ 24 m^3/hr. = 104.17 m^3/hr.	
Water Depth	= 3 m	
Plant Bed volume	= 52.2 m^2 x 3 m = 156.6 m^3	Providing 8.7 m^2 area for each plant bed and each phase has 6 PB. Therefore, Total Area = **8.7 x 6 = 52.2 m^2.** *Note: Select length and width to suit the site conditions.*
Freeboard	0.3 to 0.5 m	Selected by convention.
Depth of tank (including freeboard)	= 3.5 m	

PLANT BED – Phase IV

Parameter	Value/Calculation	Remarks
STP Capacity	2.5 MLD = 2500 m^3/day	Quantity of sewage to be handled by the STP on daily basis.
Hourly sewage inflow	= 2500/ 24 m^3/hr. = 104.17 m^3/hr.	
Water Depth	= 3 m	
Plant Bed volume	= 52.2 m^2 x 3 m = 156.6 m^3	Providing 8.7 m^2 area for each plant bed and each phase has 6 PB. Therefore, Total Area = **8.7 x 6 = 52.2 m^2.** *Note: Select length and width to suit the site conditions.*
Freeboard	0.3 to 0.5 m	Selected by convention.
Depth of tank (including freeboard)	= 3.5 m	

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M-Tech Environmental Engg.

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24/04/2024

CLEAR WATER TANK

Clear Water tanks are commonly used to hold treated water prior to distribution or for disinfection purposes before releasing the treated water.

Parameter	Value/Calculation	Remarks
STP Capacity	2.5 MLD = 2500 m^3/day	Quantity of sewage to be handled by the STP on daily basis
Hourly inflow	= 2500/ 24 m^3/hr. = 104.17 m^3/hr.	
Tank volume	= 104.17 m^3/hr. x 1 hr. = 104.17 m^3	Tank is designed to hold: - • Minimum 20 minutes. • Maximum 60 minutes. *Note: This is the usable volume, and does not include the freeboard.*
Freeboard	= 0.5 m	Selected by convention.
Water depth in tank	= 3.0m	
Tank area	= 104.17/ 3 = 34.72 m^2	Area = Volume/ Depth *Note: Select length and width to suit the site conditions.*

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Design vetted by us
24.4.24
Er WASEEM AHMAD
Environmental Consultant
M-Tech Environmental Engg
24/04/2024

Phone 0532-227 1301 (O)

जानपद अभियांत्रिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज–211004 (भारत)
Civil Engineering Department
Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004 (India)

Letter No.: 864 / CED / R&C/2024-25

Dated 08/08/2024

To

Mr. Amit Raj,
Executive Engineer, Second Section,
UP Jal Nigam (Urban)
Civil Line, Prayagraj (UP)

Sub: Testing report of wastewater sample of 2.5 MLD Bhuliyapur Wetland.

Dear Sir,

Please refer to your letter no 737/W-46/51 dated: 14/06/2024 regarding testing of Sewage sample as supplied by your representative and the testing was perform as per IS code. The test results are as follows:

Results of 2.5 MLD Bhuliyapur Sewage Samples

S.No.	Parameter	Inlet	Outlet
1.	pH	7.69	7.57
2.	Total suspended solids	4700 (mg/l)	260 (mg/l)
3.	COD	345 (mg/l)	117 (mg/l)
4.	BOD	224 (mg/l)	86 (mg/l)
5.	MPN Test	≥2400 per 100 ml	920 per 100 ml
6.	Fecal Coliform	54 X10^4 MPN/100 ml	1724 MPN/100 ml

08/8/24

(Dr. N. Rawal)
Testing Officer

Phone 0532-227 1301 (O)

जानपद अभियांत्रिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज–211004 (भारत)

Civil Engineering Department
Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004 (India)

Letter No.: ज.अ.सं / CED / R&C/2024-25

Dated 15/05/2024
17

To

Mr. Amit Raj,
Executive Engineer, Second Section,
UP Jal Nigam (Urban)
Civil Line, Prayagraj (UP)

Sub: Testing report of wastewater sample of 0.5 MLD Ramleela & 2.5 MLD Bhuliyapur Wetland.

Dear Sir,

Please refer to your letter no 340/W-46/14 dated: 01/04/2024 regarding testing of Sewage sample as supplied by your representative and the testing was perform as per IS code. The test results are as follows:

Results of 0.5 MLD Ramleela Sewage Samples

S.No.	Parameter	Inlet	Outlet
1.	pH	7.95	7.87
2.	Total suspended solids	430 (mg/l)	80 (mg/l)
3.	COD	116 (mg/l)	52 (mg/l)
4.	BOD	96 (mg/l)	30 (mg/l)
5.	MPN Test	180 per 100 ml	22 per 100 ml
6.	Fecal Coliform	79 $X10^2$ MPN/100 ml	720 MPN/100 ml

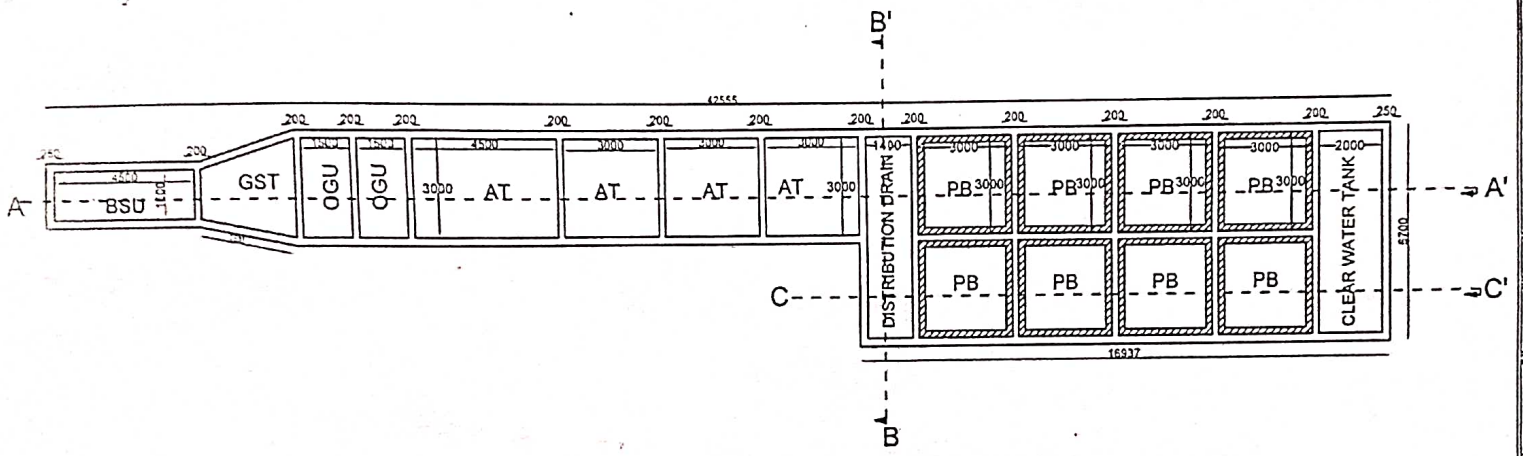
Results of 2.5 MLD Bhuliyapur Sewage Samples

S.No.	Parameter	Inlet	Outlet
7.	pH	8.52	8.17
8.	Total suspended solids	590 (mg/l)	40 (mg/l)
9.	COD	98 (mg/l)	55 (mg/l)
10.	BOD	93 (mg/l)	29 (mg/l)
11.	MPN Test	220 per 100 ml	47 per 100 ml
12.	Fecal Coliform	54X10^2 MPN/100 ml	560 MPN/100 ml

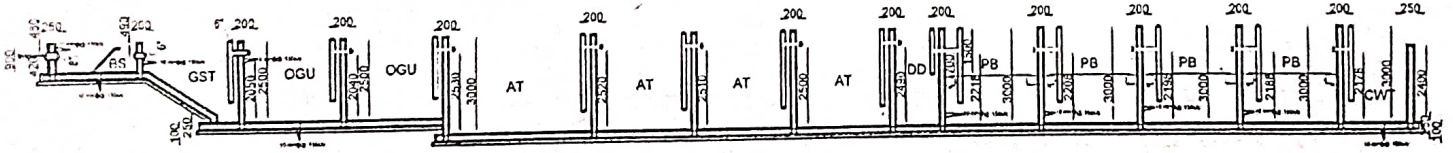
(Dr. Radha Rani)
Testing Officer

M.N. National Institute of Technology Civil Engineering Department Allahabad

(Dr. N. Rawal)
Testing Officer



LAYOUT PLAN



SECTION AA'

VETTED BY
Dr. A.K. Shukla
Professor & Head
Civil Engg. Deptt.
I.E.T., Lucknow

1. ALL DIMENSIONS AND LEVELS ARE IN MM.
2. THE THICKNESS OF RCC WALL OUTER 250MM & INNER WALL 200MM.
3. GRADE OF CONCRETE: M30.
4. SPACING OF BAR USED 10mm C/C 150mm

ABBREVIATIONS

BSU: BAR SCREEN UNIT
GST: GRIT SETTLING TANK
OGU: OIL & GREASE UNIT
CT: COLLECTION TANK
AT: ANOXIC TANK
DD: DISTRIBUTION DRAIN
PB: PLANT BED
CWT: CLEAR WATER TANK

SR. NO.	REVISION	DIRECTION	REMARK
01	14		

PROJECT NAME: 500 KLD STP,RAMLEELA MAIDAN AT PRATAPGARH U.P.

CLIENT NAME: U.P. JAL NIGAM, PRATAPGARH

CONTRACTOR- R&C & TC&S JOINT VENTURE

ADDRESS: RAMLEELA MAIDAAN NALA PRATAPGARH

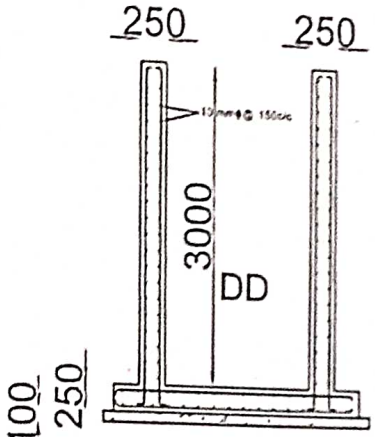
DRAWING TITLE: LAYOUT PLAN & SECTION AA'

DRAWING NO.	DATE	SCALE
01	05/12/2022	N.T.S

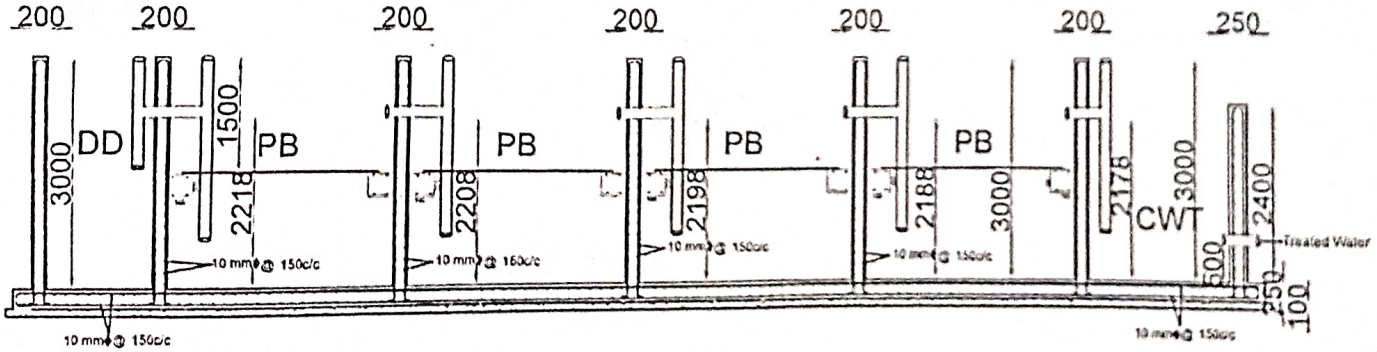
Drawing By:	Designed By:	Checked By
Shweta Rao	Er. Waseem Ahmad	Er. Ram Ji

Prepared By:

EMERGING ENVIRO-TECH
Solution & Services Pvt. Ltd.
455, Sector 14, Indira Nagar,
Lucknow-226016, Uttar Pradesh.
Mobile No.: +91-7705800091, 92, 93
Landline No.: 0522-4141917
Email Id: emergingenviro@gmail.com
Website: www.emergingenvirotech.com



SECTION BB'



SECTION CC'

1. ALL DIMENSIONS AND LEVELS ARE IN MM.
2. THE THICKNESS OF RCC WALL OUTER 250MM & INNER WALL 200MM.
3. GRADE OF CONCRETE: M30
4. SPACING OF BAR USED 10mm C/C 150mm

ABBREVIATIONS:

BSU: BAR SCREEN UNIT
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DD: DISTRIBUTION DRAIN
PB: PLANT BED
CWT: CLEAR WATER TANK

SR. NO.	REVISION	DIRECTION	REMARK
01	14		

PROJECT NAME: 500 KLD STP,RAMLEELA MAIDAN AT PRATAPGARH U.P.

CLIENT NAME: U.P. JAL NIGAM, PRATAPGARH

CONTRACTOR:- RKC & TCAS JOINT VENTURE

ADDRESS: RAMLEELA MAIDAN NALA PRATAPGARH

DRAWING TITLE:
SECTION BB' &CC'

DRAWING NO.	DATE	SCALE
01	05/12/2022	N.T.S.

Drawing By	Designed By	Checked By
Shweta Rao	Er. Waseem Ahmad	Er. Arun Gupta

Prepared By:

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Website: www.emergingenvirotech.com

VETTED BY
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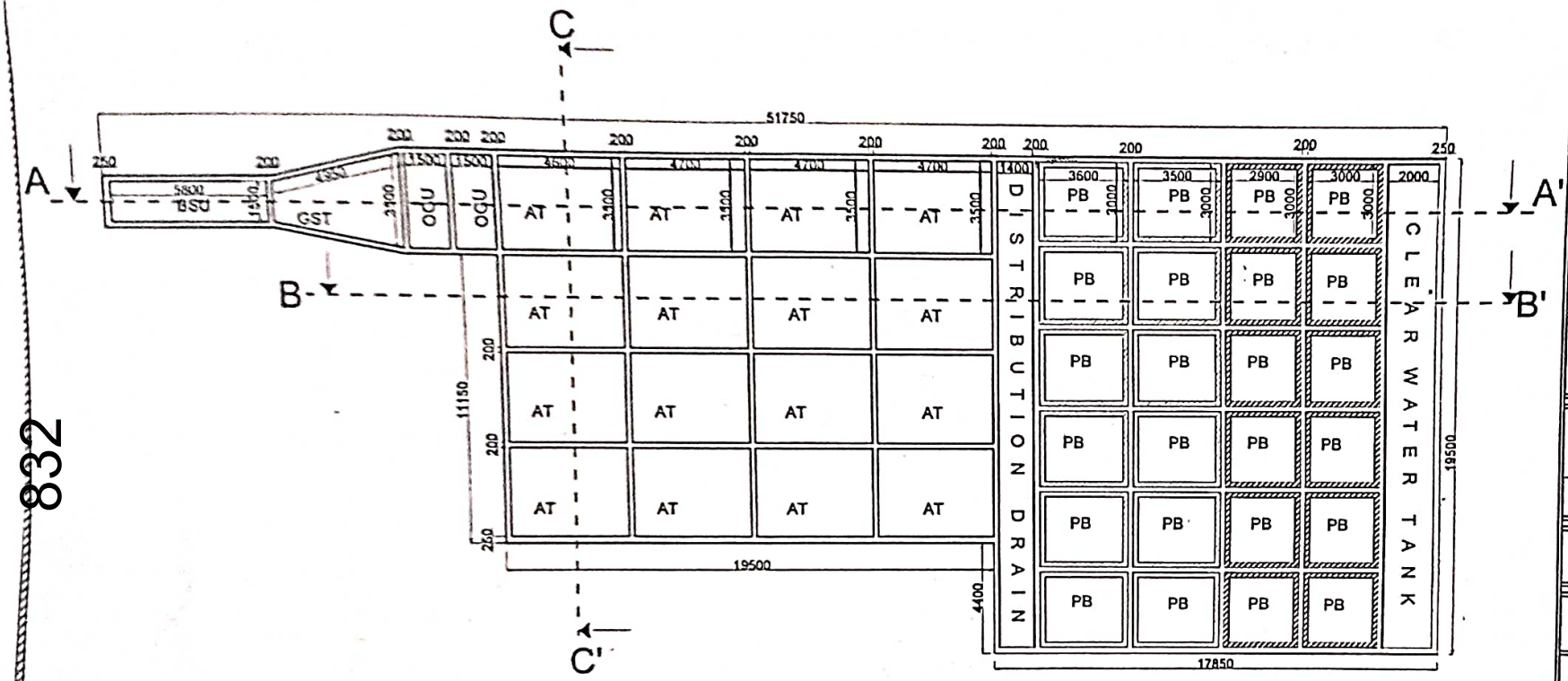
Professor & Head
Civil Engg. Deptt.
I.E.T., Lucknow



LAYOUT PLAN

1. ALL DIMENSIONS AND LEVELS
2. THE THICKNESS OF RCC WAL & INNER WALL 200MM.
3. SPACING OF BAR USED 12MM
4. GRADE OF CONCRETE: M30

ABBREVIATIONS:

BSU: BAR SCREEN UNIT
GST: GRIT SETTLING TANK
OGU: OIL & GREASE UNIT
RC: COLLECTION TANK
AT: ANOXIC TANK
DD: DISTRIBUTION DRAIN
PB: PLANT BED
CWT: CLEAR WATER TANK

SR. NO.	REVISION	DIRECTIO
02	14	- - -

PROJECT NAME: 2.5 MLD STP BASED CONSTRUCTED WETLAND TECHNOLO

CLIENT NAME: U.P. JAL NIGAM, PRAT

CONTRACTOR- RKC & TC&S JOINT VE

ADDRESS: BHOLIYAPUR, PRATAPGAR

DRAWING TITLE: LAYOUT PLAN

DRAWING NO:	DATE
02	22/07/2022

Drawing By:	Designed By:
Shweta Rao	Er. Waseem Ahmad

VETTED BY
Dr. A. K. Shukla
Professor & Head
Civil Engg. Deptt.
I.E.T., Lucknow

Prepared By:

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Solution & Services Pvt. Ltd
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Landline No.: 0522-4244917
Email Id: emergingenviro@gmail.com
Website: www.emergingenvirotech.com

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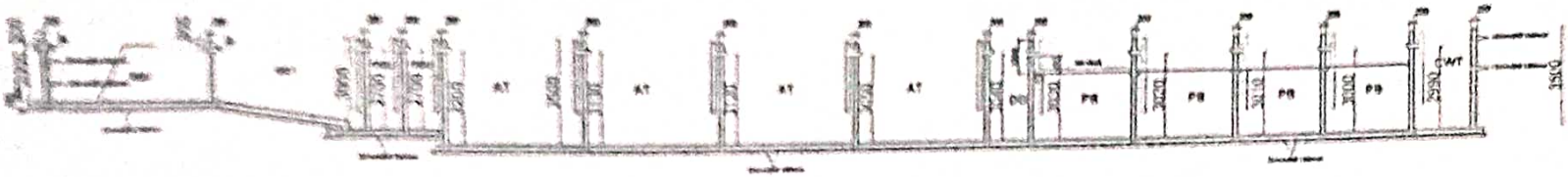
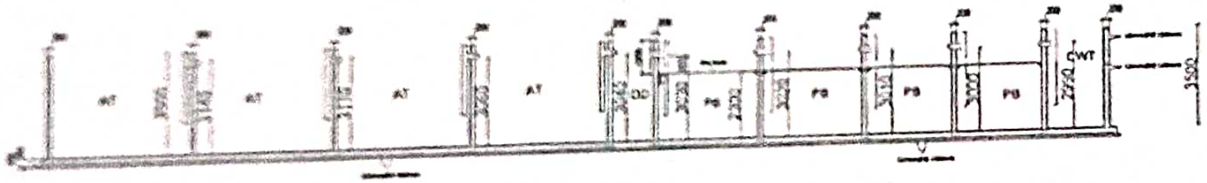
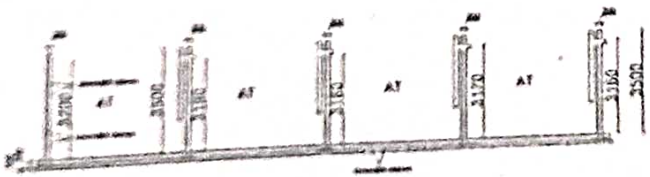


SECTION AA'



SECTION BB'



SECTION CC'

VETTED BY
Dr. A. K. Shukla
Professor & Head
Civil Engg. Deptt.
I.E.T., Lucknow

1. ALL DIMENSIONS AND LEVELS IN
2. THE THICKNESS OF RCC WALL
& INNER WALL 200MM
3. SPACING OF BAR USED 12MM C/
4. GRADE OF CONCRETE M20

ABBREVIATIONS:

BSU: BAR SCREEN UNIT
GST: GRIT SETTLING TANK
OGU: OIL & GREASE UNIT
RC: COLLECTION TANK
AT: ANOXIC TANK
DD: DISTRIBUTION DRAIN
PB: PLANT BED
CWT: CLEAR WATER TANK

SR. NO.	REVISION	DIRECTION
	14	- - -

PROJECT NAME: 2.5 MLD STP BASED O
CONSTRUCTED WETLAND TECHNOLOG

CLIENT NAME: U.P. JAL NIGAM, PRAYA

CONTRACTOR- RKC & TCLS JOINT VEN

ADDRESS: BHOLIYAPUR, PRATAPGARH

DRAWING TITLE:
SECTION AA' BB' & CC'

DRAWING NO:	DATE
02	20/07/2022

Drawing By:
Sheela Rao

Designed By:
Er. Vikram

Prepared By:

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Email id: emergingenviro@gmail.com
Website: www.emergingenvirotech.com

REGIONAL LABORATORY RAEBARELI
UTTAR PRADESH POLLUTION CONTROL BOARD
C-Block, Avas Vikas Colony, Indira Nagar, Raebareli

TEST REPORT: WASTE WATER LABORATORY

Ref No: 25799060/Raebareli/2024/paybasis

Date:29/04/2024

1- **Name of Industry:** 500 KLD Wetland STP Ramleela PRATAPGARH, Ramleela Pratapgarh

2- **Address of Industry:** Ramleela Pratapgarh

3- **District:** Pratapgarh

4- **Description about sampling point:** Inlet of Wetland STP

5- **Type of Sample (Grab/Composite/Integrated):** Grab

6- **Sample Collected By:** NAGMANI KUMAR JRF & ADITYA AWASTHI LA

7- **Colour and Odour:** Blackish Not Specified

8- **Quantity and Packing:** 2 Liter Plastic Jerrican & 125ml BOD Bottle

9- **Date of Sample Collection:** 18/04/2024

10- **Analyis Indented by:** RO Raebareli

11- **Date of sample receipt in Lab:** 19/04/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.87		02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	62.0		10-20000 mg/l
Fecal Coliform, 9221 E Fecal Coliform Procedure	MPN/100 ml	46000		<1.8 MPN/100 ml & above
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	27.0		1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	113.6		5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: *NA*

Analysed by-
[Dr Chhaya Verma(JRF)]

MANISH TRIPATHI

Authorized by
Digitally signed by MANISH TRIPATHI
Date: 2024.04.29 18:02:05 +05'30'
Manish Tripathi (SA)

PRADEEP KUMAR VISHWAKARMA

Digitally signed by PRADEEP KUMAR VISHWAKARMA
Date: 2024.05.01 11:53:17 +05'30'
Regional Officer

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatables a solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5°C above receiving water temperature	-	-	Shall not exceed 5°C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH3) mg/l,Max	100	-	-	100
11	Free ammonia (as NH3)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Mercury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C6H5OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10^-7 10^-6	10^-7 10^-6	10^-8 10^-7	10^-7 10^-6
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10^-7 10^-6	10^-7 10^-6	10^-8 10^-7	10^-7 10^-6
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=
(2) cpcb.nic.in/Industry_Specific_Standards.php

REGIONAL LABORATORY RAEBARELI
UTTAR PRADESH POLLUTION CONTROL BOARD

C-Block, Avas Vikas Colony, Indira Nagar, Raebareli

TEST REPORT: WASTE WATER LABORATORY

Ref No: 25785469/Raebareli/2024/paybasis **Date:29/04/2024**

1- **Name of Industry:** 500 KLD Wetland STP Ramleela PRATAPGARH, Ramleela Pratapgarh
2- **Address of Industry:** Ramleela Pratapgarh
3- **District:** Pratapgarh
4- **Description about sampling point:** Outlet of Wetland STP
5- **Type of Sample (Grab/Composite/Integrated):** Grab
6- **Sample Collected By:** NAGMANI KUMAR JRF & ADITYA AWASTHI LA
7- **Colour and Odour:** Colorless None
8- **Quantity and Packing:** 02 Liter Plastic Jerrican and 125 ml MPN bottle
9- **Date of Sample Collection:** 18/04/2024
10- **Analyis Indented by:** RO Raebareli
11- **Date of sample receipt in Lab:** 19/04/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.76		02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	32.0		10-20000 mg/l
Fecal Coliform, 9221 E Fecal Coliform Procedure	MPN/100 ml	40000		<1.8 MPN/100 ml & above
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	21.0		1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	104.0		5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: *NA*

Analysed by-
[Dr Chhaya Verma(JRF)]

Authorized by
MANISH TRIPATHI
Digitally signed by MANISH TRIPATHI
Date: 2024.04.29 18:04:47 +05'30'
Manish Tripathi (SA)

PRADEEP KUMAR VISHWAKARMA
Digitally signed by PRADEEP KUMAR VISHWAKARMA
Date: 2024.05.01 11:57:29 +05'30'
Regional Officer

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatablesa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5'C above receiving water temperature	-	-	Shall not exceed 5'C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH3) mg/l,Max	100	-	-	100
11	Free ammonia (as NH3)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Mercury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C6H5OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10^-7 10^-6	10^-7 10^-6	10^-8 10^-7	10^-7 10^-6
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10^-7 10^-6	10^-7 10^-6	10^-8 10^-7	10^-7 10^-6
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.
2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.
3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurred.
4. Besides these standards, refer EPA standards for specific industry Source (1):
https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=
(2) cpcb.nic.in/Industry_Specific_Standards.php

सिविल अभियांत्रिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज- 211004 भारत
Department of Civil Engineering
Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004, India

पत्रांक /CED/ R&C/ 2023-24 दिनांक / Dated

To,
Amit Raj
Executive Engineer
II CONSTRUCTION DIVISION
Uttar Pradesh Jal Nigam (Nagar)
Prayagraj-211001

Date 22/04/2024

SUB- Recommendation regarding correction in 0.5MLD constructed wetland-based waste water treatment design

With reference to E-mail dated 22/04/2024 to undersigned, we have gone through your corrected report regarding resubmission of 0.5MLD constructed wetland-based waste water treatment design, still there is need of correction so we are suggesting some correction in the given design of 0.5MLD which are as follows: -

1). Retention time of grit settling cum oil and grease chamber is not as per manual.

2). Inlet character of BOD_5 should me change from 150 mg/l to 250 mg/l.

3). Remark for distribution tank should be change.

Hence it is requested to please make the above recommended changes in your design provided.

Thanking you

Sincerely yours

(R.C.Vaishya) 22/04/2024

P.I. of Project

Phone 0532-227 1301 (O)

जनपद अभियांत्रिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज–211004 (भारत)
Civil Engineering Department
Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004 (India)

Letter No.: 160 **/ CED / R&C/2024-25**

Dated 22/04/2024

To

Mr. Amit Raj,
Executive Engineer, Second Section,
UP Jal Nigam (Urban)
Civil Line, Prayagraj (UP)

Sub: Testing report of wastewater sample of 0.5 MLD Ramleela & 2.5 MLD Bhuliyapur Wetland.

Dear Sir,

Please refer to your letter no 340/W-46/14 dated: 01/04/2024 regarding testing of Sewage sample as supplied by your representative and the testing was perform as per IS code. The test results are as follows:

Results of 0.5 MLD Ramleela Sewage Samples

S.No.	Parameter	Inlet	Outlet
1.	pH	8.03	8.15
2.	Total suspended solids	2150 (mg/l)	70 (mg/l)
3.	COD	291 (mg/l)	82 (mg/l)
4.	BOD	288 (mg/l)	40 (mg/l)
5.	MPN Test	425 per 100 ml	32 per 100 ml
6.	Fecal Coliform	24 $X10^3$ MPN/100 ml	1110 MPN/100 ml

Results of 2.5 MLD Bhuliyapur Sewage Samples

S.No.	Parameter	Inlet	Outlet
7.	pH	8.00	8.35
8.	Total suspended solids	1420 (mg/l)	60 (mg/l)
9.	COD	184 (mg/l)	61 (mg/l)
10.	BOD	154 (mg/l)	30 (mg/l)
11.	MPN Test	239 per 100 ml	46 per 100 ml
12.	Fecal Coliform	21$X10^3$ MPN/100 ml	450 MPN/100 ml

(Dr. Radha Rani)
Testing Officer

22/4/24
(Dr. N. Rawal)
Testing Officer

M.N. National Institute of Technology Civil Engineering Department Allahabad

जानपद अभियांत्रिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज-211004, भारत
Department of Civil Engineering
Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004, India

पत्रांक/ Letter No.104/CED/R&C/2024-25 दिनांक/ Dated: **12.04.2024.**

सेवा में/ To

Mr. Amit Raj,
Executive Engineer, Second Section,
UP Jal Nigam (Urban)
Civil Line, Prayagraj (UP)

विषय/ Subject:[परिक्षण/ Testing] /~~ [परिक्षण एवं परामर्श/ Testing cum Consultancy] / [परिकल्प परामर्श/ Design Consultancy]~~ रिपोर्ट / Report

सन्दर्भ/ References:

1. सेवार्थीपत्रांक / Client Letter No.: ...279/W-46/07 दिनांक /Dated:13.03.2024.
2. आवंटितविभागीय परामर्शसंख्या /Allotted Dept. Consultancy No.:568 दिनांक /Dated:28.03.2024
3. अधिष्ठाता (शोध एवं परामर्श) प्रोजेक्ट संख्या/ Dean (R&C) Project No.: .....-----..... दिनांक /Dated: ------

प्रिय महोदय / Dear Sir,

उपरोक्त केसंदर्भमें, विभागकेसंरचनात्मक / भू-तकनीकी / पर्यावरण / परिवहन / सर्वेक्षणप्रयोगशाला / अनुभागद्वाराकिएगएपरीक्षण / परीक्षणएवंपरामर्श / डिजाइनपरामर्शकार्यकीरिपोर्टआपकेविचारकेलिएसंलग्नहै / With reference to the above, the report of the Testing/ Testing cum Consultancy/ ~~Design Consultancy work carried out by Structural/ Geotechnical/~~ Environmental/ ~~Transportation/ Survey Laboratory/~~ section of the Department is attached herewith for your consideration.

इसरिपोर्टसेसंबंधितकिसीभीस्पष्टीकरणकेलिएकृपयाहमसेसंपर्ककरें /Please feel free to contact us for any further clarification.

धन्यवाद/ Thanking You.

12/4/24

(Dr. N.R.Rawal)
PI/ मुख्यअन्वेषक

Phone 0532-227 1301 (O)

जानपद अभियांत्रिकी विभाग
मोतीलाल नेहरू राष्ट्रीय प्रौद्योगिकी संस्थान इलाहाबाद
प्रयागराज–211004 (भारत)
Civil Engineering Department
Motilal Nehru National Institute of Technology Allahabad
Prayagraj-211004 (India)

Letter No.: 104 / CED / R&C/2024-25

Dated 12/04/2024

To

Mr. Amit Raj,
Executive Engineer, Second Section,
UP Jal Nigam (Urban)
Civil Line, Prayagraj (UP)

Sub: Testing report of wastewater sample of 0.5 MLD Ramlila Wetland.

Dear Sir,

Please refer to your letter no 279/W-46/07 dated: 13/03/2024 regarding testing of Sewage sample as supplied by your representative and the testing was perform as per IS code. The test results are as follows:

RESULTS OF SEWAGE SAMPLES

S.No.	Parameter	Inlet	Outlet
1.	pH	7.39	7.52
2.	Total suspended solids	2900 (mg/l)	40 (mg/l)
3.	COD	706 (mg/l)	74 (mg/l)
4.	BOD	420 (mg/l)	48 (mg/l)
5.	MPN Test	220 per 100 ml	52 per 100 ml
6.	Fecal Coliform	$21X10^5$ MPN/100 ml	$17X10^2$ MPN/100 ml

12/4/24

(Dr. N. Rawal)
Testing Officer

REGIONAL LABORATORY RAEBARELI
UTTAR PRADESH POLLUTION CONTROL BOARD
C-Block, Avas Vikas Colony, Indira Nagar, Raebareli

TEST REPORT: WASTE WATER LABORATORY

Ref No: 25354977/Raebareli/2024 **Date:12/04/2024**

1- **Name of Industry:** 2.5 MLD Wetland STP Bhuliyapur Pratapgarh
2- **Address of Industry:** Bhuliyapur Pratapgarh
3- **District:** Pratapgarh
4- **Description about sampling point:** Outlet of Wetland
5- **Type of Sample (Grab/Composite/Integrated):** Grab
6- **Sample Collected By:** Mr Vinay Prabhakar Mishra JRF & Mr Bharat Kumar JLA
7- **Colour and Odour:** Colourless Odourless
8- **Quantity and Packing:** 02 LITER PLASTIC JERICAN & 125 ML MPN BOTTLE
9- **Date of Sample Collection:** 04/04/2024
10- **Analyis Indented by:** RO Raebareli
11- **Date of sample receipt in Lab:** 04/04/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.84		02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	49.0		10-20000 mg/l
Fecal Coliform, 9221 E Fecal Coliform Procedure	MPN/100 ml	2100		<1.8 MPN/100 ml & above
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	24.0		1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	112.0		5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested; 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: NA

Analysed by-
[Dr Chhaya Verma(JRF)]

Authorized by
MANISH TRIPATHI
Digitally signed by MANISH TRIPATHI
Date: 2024.04.12 17:36:54 +05'30'
Manish Tripathi (SA)

Regional Officer

REGIONAL LABORATORY RAEBARELI
UTTAR PRADESH POLLUTION CONTROL BOARD

C-Block, Avas Vikas Colony, Indira Nagar, Raebareli

TEST REPORT: WASTE WATER LABORATORY

Ref No: 25354984/Raebareli/2024 **Date:12/04/2024**

1- **Name of Industry:** 2.5 MLD Wetland STP Bhuliyapur Pratapgarh

2- **Address of Industry:** Bhuliyapur Pratapgarh

3- **District:** Pratapgarh

4- **Description about sampling point:** Inlet of Wetland

5- **Type of Sample (Grab/Composite/Integrated):** Grab

6- **Sample Collected By:** Mr Vinay Prabhakar Mishra JRF & Mr Bharat Kumar JLA

7- **Colour and Odour:** Blackish Fishy

8- **Quantity and Packing:** 02 Liter Plastic Jerrican and 125 ml MPN bottle

9- **Date of Sample Collection:** 04/04/2024

10- **Analyis Indented by:** RO Raebareli

11- **Date of sample receipt in Lab:** 04/04/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.80		02-12
Suspended Solids , APHA 24th Ed. 2540 D Total Suspended Solids dried at 103-105 °C 2023	mg/l	71.0		10-20000 mg/l
Fecal Coliform, 9221 E Fecal Coliform Procedure	MPN/100 ml	2600		<1.8 MPN/100 ml & above
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	27.0		1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	116.8		5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested 2. The report shall not be reproduced except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab

Remark: *NA*

Analysed by-
[Dr Chhaya Verma(JRF)]

Authorized by
MANISH TRIPATHI
Date: 2024.04.12 17:29:53 +05'30'
Manish Tripathi (SA)

Regional Officer

REGIONAL LABORATORY RAEBARELI
UTTAR PRADESH POLLUTION CONTROL BOARD

C-Block, Avas Vikas Colony, Indira Nagar, Raebareli

TEST REPORT: WASTE WATER LABORATORY

Ref No: 25104407/Raebareli/2024/paybasis **Date:22/03/2024**

1- **Name of Industry:** 500 KLD Wetland STP Ramleela PRATAPGARH, Ramleela Pratapgarh

2- **Address of Industry:** Ramleela Pratapgarh

3- **District:** Pratapgarh

4- **Description about sampling point:** Inlet of Wetland

5- **Type of Sample (Grab/Composite/Integrated):** Grab

6- **Sample Collected By:** Mr. Nagmani Kumar JRF & Mrs. Chhaya Verma JRF

7- **Colour and Odour:** Blackish Fishy

8- **Quantity and Packing:** 02 LITER PLASTIC JERICAN & 125 ML MPN BOTTLE

9- **Date of Sample Collection:** 14/03/2024

10- **Analyis Indented by:** RO Raebareli

11- **Date of sample receipt in Lab:** 14/03/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.76		02-12
Fecal Coliform, 9221 E Fecal Coliform Procedure	MPN/100 ml	49000		<1.8 MPN/100 ml & above
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	26.0		1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	112.0		5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

***Remark:** NA*

Analysed by-
[Sneh lata(JRF)]

Authorized by
MANISH TRIPATHI Digitally signed by MANISH TRIPATHI Date: 2024.03.22 15:15:48 +05'30'
Manish Tripathi (SA)

PRADEEP KUMAR VISHWAKARMA Digitally signed by PRADEEP KUMAR VISHWAKARMA Date: 2024.03.22 15:11:26 +05'30'
Regional Officer

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
1	Color and Odor	a	b	c	d
2	Suspended Solids mg/l, Max	All efforts should be made to remove colour and unpleasant odour as far as practicable			
3	Particulate size of suspended solids	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent
4	2(***)	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
5	pH Value	*	*	*	*
6	Temperature	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
7	Oil and Grease Mg/l Max.	Shall not exceed 5'C above receiving water temperature	-	-	Shall not exceed 5'C above receiving water temperature
8	Total residual chorine mg/l Max	10	20	10	20
9	Ammonical Nitrogen(as N), mg/l Max	1	-	-	1
10	Total Kjeldahl Nitrogen(as NH3) mg/l,Max	50	50	-	50
11	Free ammonia (as NH3)mg/l, Max	100	-	-	100
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	5	-	-	5
13	chemical Oxygen Demand, mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	250	-	-	250
15	Murcury(as Hg), mg/l, max	0.2	0.2	0.2	0.2
16	Lead (as Pb), mg/l, max	0.01	0.01	-	0.01
17	Cadmium (as Cd), mg/l, max	0.1	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	2	1	-	2
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	0.1	2	-	1
21	Zinc(as Zn), mg/l, max	3	3	-	3
22	Selenium (as Se) mg/l, max	5	15	-	5
23	Nickel (as Ni) mg/l, max	0.05	0.05	-	0.05
24	2(***)	3	3	-	5
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	*	*	*	*
28	2(***)	0.2	2	0.2	0.2
29	Fluoride (as F) mg/l, max				
30	Dissolved Phosphates (as P), mg/l, max	2	15	-	15
31	2 (***)	5	-	0	-
32	Sulphide (as S), mg/l, max	*	*	*	*
33	Phenolic Compounds (as C6H5OH) mg/l, max	2	-	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	1	5	-	5
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10^-7 10^-6	10^-7 10^-6	10^-8 10^-7	10^-7 10^-6
35	Bio-assay test	10^-7 10^-6	10^-7 10^-6	10^-8 10^-7	10^-7 10^-6
		90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.

2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.

3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurrred.

4. Besides these standards, refer EPA standards for specific industry Source (1):
https://cpcb.nic.in/displaypdf.php?id=R2VuZXJhbFN0YW5kYXJkcy5wZGY=
(2) cpcb.nic.in/Industry_Specific_Standards.php

REGIONAL LABORATORY RAEBARELI
UTTAR PRADESH POLLUTION CONTROL BOARD

C-Block, Avas Vikas Colony, Indira Nagar, Raebareli

TEST REPORT: WASTE WATER LABORATORY

Ref No: 25118688/Raebareli/2024/paybasis **Date:22/03/2024**

1- **Name of Industry:** 500 KLD Wetland STP Ramleela PRATAPGARH, Ramleela Pratapgarh
2- **Address of Industry:** Ramleela Pratapgarh
3- **District:** Pratapgarh
4- **Description about sampling point:** Outlet of Wetland
5- **Type of Sample (Grab/Composite/Integrated):** Grab
6- **Sample Collected By:** Mr. Nagmani Kumar JRF & Mrs. Chhaya Verma JRF
7- **Colour and Odour:** COLORLESS ODORLESS
8- **Quantity and Packing:** 02 LITER PLASTIC JERICAN & 125 ML MPN BOTTLE
9- **Date of Sample Collection:** 14/03/2024
10- **Analyis Indented by:** RO Raebareli
11- **Date of sample receipt in Lab:** 14/03/2024

Parameter/Method Name	Unit	Results	Standard	Detection Range
pH, APHA 24th Ed. 4500B: 2023	-	7.74		02-12
Fecal Coliform, 9221 E Fecal Coliform Procedure	MPN/100 ml	46000		<1.8 MPN/100 ml & above
BOD, APHA 24th Ed. 3 day 27 °C IS 3025 (Part 44): 1993 Bio 2023	mg/l	22.5		1.0 -50000 mg/l
COD, APHA 24th Ed. 5220 B Open Reflux Method 2023	mg/l	88.0		5.0 -100000 mg/l

Reference- (1) General Standards for discharge of environmental pollutants are as part-A Effluent (Schedule-VI). The Environment (Protection) Rules,1986 source: www.cpcb.nic.in/GeneralStandards.pdf. Besides these standards, refer EPA standards for specific purpose

*Non-NABL Parameters.

Note : 1 The results in the Test Report relate only to the items tested: 2. The report shall not be reproduced-except in full, without the written permission of laboratory. 3. The test report pertains to the sample as received in Lab.

Remark: *NA*

Analysed by-
[Sneh lata(JRF)]

Authorized by
MANISH TRIPATHI Digitally signed by MANISH TRIPATHI Date: 2024.03.22 14:59:19 +05'30'
Manish Tripathi (SA)

PRADEEP KUMAR VISHWAKARMA Digitally signed by PRADEEP KUMAR VISHWAKARMA Date: 2024.03.22 15:08:20 +05'30'
Regional Officer

General Standards for Discharge of Environmental Pollutants Part -A:Effluents (Schedule - VI) The Environment(Protection) Rules, 1986

1	Parameter	Standards			
		Inland Surface water	Public Sewers	Land for Irrigation	Marine coastal areas
		a	b	c	d
1	Color and Odor	All efforts should be made to remove colour and unpleasant odour as far as practicable			
2	Suspended Solids mg/l, Max	100	600	200	(a) for process waste water- 100(b) For cooling water effluent 10 percent above total suspended matter of influent.
3	Particulate size of suspended solids	Shall pass 850 micron IS Sieve	-	-	(a) Floatableaa solids, max. 3 mm
4	2(***)	*	*	*	*
5	pH Value	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0	5.5 to 9.0
6	Temperature	Shall not exceed 5'C above receiving water temperature	-	-	Shall not exceed 5'C above receiving water temperature
7	Oil and Grease Mg/l Max.	10	20	10	20
8	Total residual chorine mg/l Max	1	-	-	1
9	Ammonical Nitrogen(as N), mg/l Max	50	50	-	50
10	Total Kjeldahl Nitrogen(as NH3) mg/l,Max	100	-	-	100
11	Free ammonia (as NH3)mg/l, Max	5	-	-	5
12	3Biochemical Oxygen Demand 1[3 days at 270C] mg/l, Max	30	350	100	100
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
13	chemical Oxygen Demand, mg/l, Max	250	-	-	250
14	Arsenic(as As), mg/l, max	0.2	0.2	0.2	0.2
15	Murcury(as Hg), mg/l, max	0.01	0.01	-	0.01
16	Lead (as Pb), mg/l, max	0.1	1	-	2
17	Cadmium (as Cd), mg/l, max	2	1	-	2
18	Hexavalentchromium (as Cr+6), mg/l, max	0.1	2	-	1
19	Total chromium (as Cr)mg/l, max	0.1	2	-	1
20	Copper(as Cu), mg/l, max	3	3	-	3
21	Zinc(as Zn), mg/l, max	5	15	-	5
22	Selenium (as Se) mg/l, max	0.05	0.05	-	0.05
23	Nickel (as Ni) mg/l, max	3	3	-	5
24	2(***)	*	*	*	*
25	2(***)	*	*	*	*
26	2(***)	*	*	*	*
27	Cyanide (as CN), mg/l, max	0.2	2	0.2	0.2
28	2(***)				
29	Fluoride (as F) mg/l, max	2	15	-	15
30	Dissolved Phosphates (as P), mg/l, max	5	-	0	-
31	2 (***)	*	*	*	*
32	Sulphide (as S), mg/l, max	2	-	-	5
33	Phenolic Compounds (as C6H5OH) mg/l, max	1	5	-	5
34	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10^-7 10^-6	10^-7 10^-6	10^-8 10^-7	10^-7 10^-6
35	Radioactive materials: (a)Alpha emitter micro curie/ml (b)Beta emitter micro curie/ml	10^-7 10^-6	10^-7 10^-6	10^-8 10^-7	10^-7 10^-6
35	Bio-assay test	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent	90% survival of fish after 96 hours in 100 % effluent

36	Manganese (as Mn)	2 mg/l	2 mg/l	-	2 mg/l
37	Iron (as Fe)	3 mg/l	3 mg/l	-	3 mg/l
38	Vanadium (as V)	0.2 mg/l	0.2 mg/l	-	0.2 mg/l
39	Nitrate Nitrogen	10 mg/l	-	-	20 mg/l
40	2 (***)	*	*	*	*

1. Schedule VI inserted by Rule 2 (d) of the Environment(Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422 (E) dated 19.05.1993 published in the Gazette no. 174 dated 19.05.1993.

2. Omitted by Rule 2 (d)(i) of the Environment(Protection) Third Amendment Rules, 1993 vide Notification No. G.S.R. 801 (E), dated 31.12.1993.

3. Substituted by Rule 2 of the Environment(Protection) Amendment Rules, 1996 notified by G.S.R 176, dated 02.04.1996 may be read as BOD (3days at 270C) whenever BOD 05 days 200C occurrred.

4. Besides these standards, refer EPA standards for specific industry Source (1):
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(2) cpcb.nic.in/Industry_Specific_Standards.php

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TEST REPORT

Test Report No.: URLS/2025-0803-1		Issued On: 17.03.2025	
1.	**Name & Address of Customer**	**Technocrafts & Solutions;** 2nd Floor, Plot No. 49, Dayal Bhawan, Patel Nagar, Mint Huse Road, Cantonment, Nadeshar, Varanasi, Uttar Pradesh- 221002.	
2.	**Registration Reference Details**	Order Code/Job Order No.: URLS/O/25-0299/1; Dated: 08.03.2025	
3.	**Material Identification with Details**	Waste Water; 1 Litre.	
4.	**Source / Location**	STP Inlet Water / 2.5 MLD STP Plant -Bhuliyapur Wetland	
5.	**Sample Collected by / Condition**	Customer / Sealed & Satisfactory	
6.	**Sample Collection Plan & Procedure**	NA	
7.	**Date / Time of Sample Collection**	NA	
8.	**Date of Sample Registration**	08.03.2025	
9.	**Date of Sample Testing**	08.03.2025 to 17.03.2025	
10.	**Environmental Conditions**	Room Temperature (°C): 24.3	Relative Humidity (%): 67

RESULTS

S. No.	Name of Test	Test Result	Units	Method of Test
Discipline- Chemical				
Group- Waste Water				
1	pH value at 25°C	7.64	-	IS:3025 (Part 11) 2022
2	Total Suspended Solids	188	mg/L	IS:3025 (Part 17) 2022
3	Chemical Oxygen Demand	1344	mg/L	IS:3025 (Part 58) 2023
4	Biological Oxygen Demand @ 20°C -5 Days	480	mg/L	IS:3025 (Part 44) 2023
Discipline- Biological				
Group- Waste Water				
5	Feacal Coliform	≥1600	MPN/100mL	APHA 23 Ed. 9221 E

BLQ=Below Limit of Quantification, LOQ= Limit of Quantification.

Checked By
Suryabhan Singh
Quality Manager

Universal Research Laboratory Services LLP * Lucknow *

Authorized Signatory
J.P Nautiyal
Technical Manager
17/03/25

End of Report

Ground Floor-Raj Market, Deva Road,
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TEST REPORT

Test Report No.: URLS/2025-0803-2		Issued On: 17.03.2025	
1.	**Name & Address of Customer**	**Technocrafts & Solutions;** 2nd Floor, Plot No. 49, Dayal Bhawan, Patel Nagar, Mint Huse Road, Cantonment, Nadeshar, Varanasi, Uttar Pradesh- 221002.	
2.	**Registration Reference Details**	Order Code/Job Order No.: URLS/O/25-0299/2; Dated: 08.03.2025	
3.	**Material Identification with Details**	Waste Water; 1 Litre.	
4.	**Source / Location**	STP Inlet Water / 0.5 MLD Plant -Ramleela Maidan Wetland	
5.	**Sample Collected by / Condition**	Customer / Sealed & Satisfactory	
6.	**Sample Collection Plan & Procedure**	NA	
7.	**Date / Time of Sample Collection**	NA	
8.	**Date of Sample Registration**	08.03.2025	
9.	**Date of Sample Testing**	08.03.2025 to 17.03.2025	
10.	**Environmental Conditions**	Room Temperature (°C): 24.3	Relative Humidity (%): 67

RESULTS

S. No.	Name of Test	Test Result	Units	Method of Test
Discipline- Chemical				
Group- Waste Water				
1	pH value at 25°C	8.52	-	IS:3025 (Part 11) 2022
2	Total Suspended Solids	166	mg/L	IS:3025 (Part 17) 2022
3	Chemical Oxygen Demand	1296	mg/L	IS:3025 (Part 58) 2023
4	Biological Oxygen Demand @ 20°C -5 Days	440.6	mg/L	IS:3025 (Part 44) 2023
Discipline- Biological				
Group- Waste Water				
5	Feacal Coliform	≥1600	MPN/100mL	APHA 23 Ed. 9221 E

BLQ=Below Limit of Quantification, LOQ= Limit of Quantification.

Checked By
Suryabhan Singh
Quality Manager

Universal Research Laboratory Services LLP * Lucknow *

17/03/25

Authorized Signatory
J.P Nautiyal
Technical Manager

End of Report

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TEST REPORT

Test Report No.: URLS/2025-0803-3		Issued On: 17.03.2025	
1.	**Name & Address of Customer**	**Technocrafts & Solutions;** 2nd Floor, Plot No. 49, Dayal Bhawan, Patel Nagar, Mint Huse Road, Cantonment, Nadeshar, Varanasi, Uttar Pradesh- 221002.	
2.	**Registration Reference Details**	Order Code/Job Order No.: URLS/O/25-0299/3; Dated: 08.03.2025	
3.	**Material Identification with Details**	Waste Water; 1 Litre.	
4.	**Source / Location**	STP Treated Water / 2.5 MLD STP Plant -Bhuliyapur Wetland	
5.	**Sample Collected by / Condition**	Customer / Sealed & Satisfactory	
6.	**Sample Collection Plan & Procedure**	NA	
7.	**Date / Time of Sample Collection**	NA	
8.	**Date of Sample Registration**	08.03.2025	
9.	**Date of Sample Testing**	08.03.2025 to 17.03.2025	
10.	**Environmental Conditions**	Room Temperature (°C): 24.1	Relative Humidity (%): 64

RESULTS

S. No.	Name of Test	Test Result	Units	Limits as per Schedule VI, EPA Rules 1986	Method of Test
Discipline- Chemical					
Group- Waste Water					
1	pH value at 25°C	7.92	-	5.5 to 9.0	IS:3025 (Part 11) 2022
2	Total Suspended Solids	14	mg/L	100	IS:3025 (Part 17) 2022
3	Chemical Oxygen Demand	115.2	mg/L	Max.250	IS:3025 (Part 58) 2023
4	Biological Oxygen Demand @ 20°C -5 Days	23.96	mg/L	Max.30	IS:3025 (Part 44) 2023
Discipline- Biological					
Group- Waste Water					
5	Feacal Coliform	280	MPN/100 mL	1000	APHA 23 Ed. 9221 E

BLQ=Below Limit of Quantification, LOQ= Limit of Quantification.

Checked By
Suryabhan Singh
Quality Manager

Universal Research Laboratory Services LLP * Lucknow *

17/03/25

Authorized Signatory
J.P Nautiyal
Technical Manager

End of Report

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TEST REPORT

Test Report No.: URLS/2025-0803-4		Issued On: 17.03.2025	
1.	**Name & Address of Customer**	**Technocrafts & Solutions;** 2nd Floor, Plot No. 49, Dayal Bhawan, Patel Nagar, Mint Huse Road, Cantonment, Nadeshar, Varanasi, Uttar Pradesh- 221002.	
2.	**Registration Reference Details**	Order Code/Job Order No.: URLS/O/25-0299/4; Dated: 08.03.2025	
3.	**Material Identification with Details**	Waste Water; 1 Litre.	
4.	**Source / Location**	STP Treated Water / 0.5 MLD Plant -Ramleela Maidan Wetland	
5.	**Sample Collected by / Condition**	Customer / Sealed & Satisfactory	
6.	**Sample Collection Plan & Procedure**	NA	
7.	**Date / Time of Sample Collection**	NA	
8.	**Date of Sample Registration**	08.03.2025	
9.	**Date of Sample Testing**	08.03.2025 to 17.03.2025	
10.	**Environmental Conditions**	Room Temperature (°C): 24.1	Relative Humidity (%): 64

RESULTS

S. No.	Name of Test	Test Result	Units	Limits as per Schedule VI, EPA Rules 1986	Method of Test
Discipline- Chemical					
Group- Waste Water					
1	pH value at 25°C	7.86	-	5.5 to 9.0	IS:3025 (Part 11) 2022
2	Total Suspended Solids	22	mg/L	100	IS:3025 (Part 17) 2022
3	Chemical Oxygen Demand	153.6	mg/L	Max.250	IS:3025 (Part 58) 2023
4	Biological Oxygen Demand @ 20°C -5 Days	28.80	mg/L	Max.30	IS:3025 (Part 44) 2023
Discipline- Biological					
Group- Waste Water					
5	Feacal Coliform	350	MPN/100 mL	1000	APHA 23 Ed. 9221 E

BLQ=Below Limit of Quantification, LOQ= Limit of Quantification.

Checked By
Suryabhan Singh
Quality Manager

Universal Research Laboratory Services LLP * Lucknow *

17/03/25

Authorized Signatory
J.P Nautiyal
Technical Manager

End of Report

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Diary number

Diary Number | Case Number | CNR Number | AOR Code | Party Name | Court

Back

DIARY NO. - 52944/2024

EXECUTIVE OFFICER, NAGAR PALIKA PARISHAD BELHA PRATAPGARH VS. SAKET GIRLS PG COLLEGE

Case Details

Diary Number	**52944/2024** Filed on 14-11-2024 06:51 PM [**SECTION: XVII**] **PENDING**
Case Number	C.A. No.(Verified On 05-12-2024)
CNR Number	SCIN010529442024
Present/Last Listed On	**16-04-2025 [REGISTRAR]**
Status/Stage	Pending (Motion Hearing [SERVICE/COMPLIANCE]-BEFORE REGISTRAR(J) / [FRESH (FOR ADMISSION) - CIVIL CASES]) List On (Date) (15-07-2025)-Ord dt:16-04-2025
Category	2002-Environmental Laws : Appeal under Section 22 of the National Green Tribunal Act, 2010
Petitioner(s)	1 EXECUTIVE OFFICER, NAGAR PALIKA PARISHAD BELHA PRATAPGARH
Respondent(s)	1 SAKET GIRLS PG COLLEGE 2 THE STATE OF UTTAR PRADESH 3 THE PRINCIPAL SECRETARY 4 THE SUPERINTENDENT ENGINEER (CIVIL)/ EXECUTIVE ENGINEER 5 THE DIRECTOR, DIRECTORATE OF LOCAL BODIES, U.P 6 THE DISTRICT MAGISTRATE 7 THE DIVISIONAL COMMISSIONER PRAYAGRAJ DIVISION
Petitioner Advocate(s)	NITESH RANJAN
Respondent Advocate(s)	SUDARSH MENON[caveat] ADARSH UPADHYAY[R-2] ADARSH UPADHYAY[R-3] ADARSH UPADHYAY[R-4]

Argument Transcripts +