Annexure –I

Letter of Intent (LOI)

जिला खनन कार्यालय, पश्चिम चम्पारण, बेतिया।

पत्रांक 218 /खनन, बेतिया, दिनांक 17/04/2023

प्रेषक,

खनिज विकास पदाधिकारी,
पश्चिम चम्पारण, बेतिया।

प्रेषित,

एन० के० इन्टरप्राईजेज,
प्रो०– श्री नवनीत कुमार,
शांतीनगर, बेतिया,
जिला– पश्चिम चम्पारण,
ई–मेल– navneetksom@gmail.com
मो०– 9113472799।

विषयः– पश्चिम चम्पारण, बेतिया जिलान्तर्गत गंडक नदी के बालूघाट इकाई संख्या 11 की आगामी पाँच वर्षों के लिए बन्दोबस्ती हेतु दिनांक–10.04.2023 को सम्पन्न ई–नीलामी में उच्चतम डाकदक्ता घोषित होने के फलस्वरूप सैद्धांतिक स्वीकृत्यादेश के संबंध में।

उपर्युक्त विषयक पश्चिम चम्पारण, बेतिया जिलान्तर्गत मसान, मनियारी, हड़बोरा एवं बिरहा नदी के बालूघाट इकाई संख्या – 11 रकबा– 11.13 हेक्टेयर की आगामी पाँच वर्षों के लिए बन्दोबस्ती हेतु दिनांक–10.04.2023 को सम्पन्न ई–नीलामी में आपके द्वारा रू0– 50,08,500.00/– (पच्चास लाख आठ हजार पाँच सौ रू0 मात्र) की सुरक्षित जमा राशि के विरूद्ध उच्चतम डाक की राशि रू0– 8,58,45,350.00/– (आठ करोड़ छप्पन लाख पैतालीस हजार तीन सौ पच्चास रू0 मात्र) की बोली लगाये जाने के फलस्वरूप आप उच्चतम डाकदक्ता घोषित हुए है। निविदा दस्तावेज की कंडिका–20 (i) के आलोक में आपके द्वारा नीलामी राशि की 25 प्रतिशत राशि (जमा अग्रधन राशि समायोजनोपरान्त) प्रतिभूति जमा के रूप में राशि रू0– 2,01,59,213.00/– (दो करोड़ एक लाख उनसठ हजार दो सौ तेरह रू0 मात्र) के भुगतान का तात्य दिनांक–13.04.2023 को कार्यालय में प्रस्तुत किया गया है।

निविदा दस्तावेज की कंडिका 20(i) (ii) (iii) (iv) (v) के आलोक में पश्चिम चम्पारण, बेतिया जिलान्तर्गत मसान, मनियारी, हड़बोरा एवं बिरहा नदी के बालूघाट इकाई संख्या– 11 का सैद्धांतिक स्वीकृति के शर्त्त एवं बंधेज निम्नवत् है:–

1. बालूघाट इकाई संख्या–11 से संबंधित विवरणी निम्नवत् है–

क्रम संख्या	नदी का नाम	रकबा	Geo Coordinates	
			Latitude	Longitude
1	मसान (पिपरा घाट)	6.43 हे०	27° 7'2.56"N	84°17'3.10"E
			27° 7'19.60"N	84°17'2.08"E
			27° 7'18.77"N	84°17'5.16"E
			27° 7'14.07"N	84°17'6.93"E
			27° 7'2.78"N	84°17'6.75"E
	मसान (गड्ढुई घाट)	0.74 हे०	27° 6'31.40"N	84°17'39.32"E
			27° 6'31.45"N	84°17'40.86"E
			27° 6'28.33"N	84°17'42.77"E
			27° 6'26.26"N	84°17'42.80"E
			27° 6'26.11"N	84°17'41.91"E
	मनियारी (मधुहवा घाट)	1.49 हे०	27°12'51.61"N	84°33'47.12"E
			27°12'52.32"N	84°33'48.45"E
			27°12'45.12"N	84°33'49.91"E
			27°12'44.68"N	84°33'47.61"E
	हड़बोरा (बेरिया घाट)	1.68 हे०	27°13'3.38"N	84°27'54.87"E
			27°13'1.90"N	84°27'56.95"E
			27°12'55.39"N	84°27'56.36"E
			27°12'55.26"N	84°27'55.56"E
			27°12'57.51"N	84°27'53.55"E
			27°13'0.89"N	84°27'53.39"E

	बिरहा (पकाड़ी घाट)	0.49 हे०	27°12'35.89"N	84°37'39.73"E
			27°12'35.90"N	84°37'41.13"E
			27°12'32.25"N	84°37'42.37"E
			27°12'32.00"N	84°37'41.50"E
	बिरहा (मिसरहवा घाट)	0.33 हे०	27°12'7.74"N	84°37'19.78"E
			27°12'5.47"N	84°37'16.96"E
			27°12'3.14"N	84°37'16.73"E
			27°12'3.07"N	84°37'16.49"E
			27°12'4.85"N	84°37'15.95"E
			27°12'5.90"N	84°37'16.05"E
2	वन क्षेत्र से दूरी		15 km	
3	सुरक्षित क्षेत्र/वन अभयारण्य क्षेत्र/पक्षी अभयारण्य/वन्य जीव आश्रयण क्षेत्र से दूरी		15 km	
4	बालूघाट से 600 मीटर के अन्दर खनन गड्ढा क्षेत्र की स्थिति		नहीं (रकबा 0.00 हे०)।	
5	पुरातात्विक स्थल से दूरी		लागू नहीं।	
6	खनन योग्य मात्रा		66,780 घनमीटर	

2. भुगतान की शर्तें:-

(I) नीलामीत-राशि केवल प्रथम वर्ष के लिए बंदोबस्ती की राशि मानी जाएगी। दूसरे वर्ष और उसके अनुक्रमी वर्षों मे बंदोबस्ती की राशि वर्ष की बंदोबस्ती राशि के 120 प्रतिशत अथवा समय-समय पर सरकार द्वारा निर्धारित निदेशों के अनुरूप होगा।

(II) प्रतिभूति जमा के अतिरिक्त आपको निम्नलिखित समय सारणी/भुगतान अनुसूची के अनुसार बन्दोबस्ती की राशि का भुगतान करना होगा:-

किस्त	भुगतान की नियत तारीख
प्रथम किस्त (50%)	(क) पट्टा संविदा निष्पादन से पहले (पहले वर्ष के लिए) (ख) प्रथम वर्ष में पट्टा संविदा निष्पादन की तिथि से एक वर्ष पूरा होने के 60 दिन पूर्व और अनुक्रमिक वर्षों में इसी प्रक्रिया का पालन करते हुए जमा किया जायेगा।
द्वितीय किस्त (25%)	पट्टा संविदा निष्पादन की तिथि से 03 महीना पूरा होने से पहले।
तृतीय किस्त (25%)	पट्टा संविदा निष्पादन की तिथि से 09 महीना पूरा होने से पहले।

3. GST का भुगतान:- जी0एस0टी0 के रूप में प्रचलित दर के अनुसार राशि वाणिज्य कर विभाग को भुगतान करना होगा। जिला खनन कार्यालय, पश्चिम चम्पारण, बेतिया में जी0एस0टी0 भुगतान का प्रमाण प्रत्येक किस्त के साथ देना होगा।

4. आयकर/अन्य करों का भुगतान:- आयकर अधिनियम के तहत आयकर एवं उस पर नियमानुसार देय अधिभार का भुगतान आयकर विभाग के प्रचलित दर के अनुसार एक मुश्त करना होगा। यह राशि बंदोबस्ती राशि के प्रत्येक किस्त के साथ देय होगी। जिला खनन कार्यालय, पश्चिम चम्पारण, बेतिया द्वारा यह राशि आयकर मद में जमा करा दी जायेगी।

5. जिला खनिज फाउन्डेशन :- Bihar District Mineral Foundation Rules, 2018 के अनुसार बंदोबस्ती राशि की दो (2) प्रतिशत राशि जिला खनिज फाउण्डेशन, पश्चिम चम्पारण, बेतिया के नाम भुगतेय बैंक ड्राफ्ट के माध्यम से करना होगा।

6. वैधानिक अनापत्ति :-बालूघाट संचालन हेतु आवश्यक समस्त वैधानिक अनापत्ति/अनुमति यथा:- खनन योजना, पर्यावरणीय स्वीकृति, जल एवं वायु सहमति आदि निर्धारित अवधि के अन्दर आपके द्वारा प्राप्त करना होगा। वैधानिक अनापत्ति/अनुमति प्राप्त करने के पश्चात ही बालू खनन प्रारंभ किये जाने हेतु कार्यादेश निर्गत किया जा सकेगा।

-वैधानिक अनापत्ति/अनुमति निम्नानुसार है:-

i. खनन योजना:- खनन योजना प्रभावी नियमों में उल्लेखित प्रावधानों के अनुसार सफल खानपट्टा/बन्दोबस्तधारी द्वारा QCI/NABET से मान्यता प्राप्त Professional RQP से तैयार कर निदेशक, खान या विभाग द्वारा प्राधिकृत पदाधिकारी के समक्ष लेटर ऑफ इंटेंट निर्गत होने से 30 दिनों के अन्दर अनुमोदन के लिए प्रस्तुत करेगा। खनन योजना बनाने पर होने वाले व्यय का वहन संबंधित खनिज खानपट्टा/बन्दोबस्तधारी द्वारा किया जायेगा। साथ ही खनन योजना की

जाँच हेतु सिमाहर्ता / विभाग अथवा एजेंसी नियोजित कर सकेगा, जिसका निर्धारित फीस / शुल्क भी बन्दोबस्तधारी को ही वहन करना होगा। सफल डाकबकता / बन्दोबस्तधारी खनन योजना के अनुसार खनन कार्य सुनिश्चित करेगे।

ii. पर्यावरणीय स्वीकृति:– सफल डाकबकता / बन्दोबस्तधारी खनन योजना अनुमोदन के 15 दिनों के अन्दर पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के समक्ष प्राधिकार के समक्ष पर्यावरणीय स्वीकृति (EC) के लिए प्रस्ताव समर्पित करेगा। समयबद्ध रीति से पर्यावरणीय एवं अन्य वैधानिक स्वीकृति प्राप्त करना सफल डाकबकता की जिम्मेवारी होगी। अपेक्षित पर्यावरणीय स्वीकृति एवं अन्य आवश्यक स्वीकृति प्राप्त करने में किसी भी प्रकार की देरी के लिए सफल डाकबकता स्वयं जिम्मेवार होंगे एवं इस संबंध में किसी भी प्रकार की क्षतिपूर्ति के लिए कोई भी दावा मान्य नहीं होगा।

iii. जल एवं वायु सहमति:– पर्यावरणीय स्वीकृति प्राप्त करने के पश्चात् सफल डाकबकता अधिकतम 07 (सात) दिवस के अन्दर जल (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1974 तथा वायु (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1981 के अधीन सक्षम पदाधिकारी के समक्ष सहमति / Consent to Establish/Consent to Operate प्राप्त करने हेतु आवेदन प्रस्तुत करेगा।

iv. खनन के लिए अनुमत मात्रा:– खनन योजना, पर्यावरणीय स्वीकृति तथा जल (प्रदूषण निवारण एवं नियंत्रण) अधिनियम 1974 तथा वायु (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1981 के तहत प्राप्त सहमति में वर्णित बालू की मात्रा (इनमें से जो भी कम हो) तक ही खनन अनुमान्य होगा। अनुमोदित खनन योजना, पर्यावरणीय स्वीकृति तथा जल एवं वायु सहमति में खनन योग्य मात्रा कम किये जाने पर भी वार्षिक देय बन्दोबस्ती राशि किसी स्थिति में कम नहीं की जाएगी।

v. बिना किसी वैध कारण के पर्यावरणीय स्वीकृति, Consent to Establish/Consent to Operate / जल एवं वायु सहमति प्राप्त नहीं कर पाते है या प्राप्त करने में रूचि नहीं लेते हैं तो, समाहर्ता द्वारा अग्रधन की राशि को जप्त कर लिया जायेगा।

7. **बन्दोबस्ती विलेख / पट्टा संविदा (डीड) निष्पादन करना:–**

i. सफल डाकबकता द्वारा सभी वैधानिक अनापत्ति प्राप्त करने के उपरान्त 5 वर्षों की अवधि के लिए बालू खनन करने हेतु समानुदान / बन्दोबस्ती स्वीकृत किया जाएगा। सफल डाकबकता विहित प्रपत्र में संबंधित नियमानुसार बन्दोबस्ती विलेख अथवा उसके समरूप एक प्रपत्र, कार्य आरंभ करने के पहले, निष्पादित करेगा तथा विहित अपेक्षित राशि संबंधित विभाग में जमा कर देगा। बन्दोबस्तधारी के पट्टे की अवधि विलेख / संविदा निष्पादन की तिथि से पाँच वर्षों के लिए विधिमान्य होगा।

ii. बन्दोबस्तधारी को निष्पादित संविदा का निबंधन संबंधित विभाग के प्रचलित नियमों के अधीन 01 माह के अन्दर कराना अनिवार्य होगा।

8. सफल डाकबकता / बन्दोबस्तधारी द्वारा बन्दोबस्ती प्रत्यर्पण / कारोबार छोड़ने का विकल्प बिहार खनिज (समानुदान, अवैध खनन, परिवहन एवं भण्डारण नियारण) नियमावली, 2019 के नियम–50 के अनुरूप किया जा सकेगा।

9. सामान्य शर्तें:–

(i) निविदादाता / सफल डाकबकता / बन्दोबस्तधारी द्वारा ई–मेल के माध्यम से किया गया पत्राचार ही मान्य होगा।

(ii) बन्दोबस्ती लेने के बाद सभी बालूघाटों के लिए बालू के उत्तोलन कार्य में संलग्न सभी सहयोगी व्यक्तियों / प्रबंधकों की सूची, पूर्ण पता एवं फोटो के साथ एक माह के अन्दर समाहर्ता को उपलब्ध कराना एवं पोर्टल पर अपलोड / उपलब्ध करायेंगे।

(iii) बन्दोबस्तधारी नदी तट से बालू क्षेपण के बिन्दु पर एक साईनबोर्ड एवं सीमा स्तंभ का अधिष्ठापन करायेगा जिसपर बन्दोबस्तधारी का नाम एवं पता, बन्दोबस्ती की अवधि, स्थानीय मैनेजर का नाम एवं पता तथा बालू का विक्रय मूल्य प्रदर्शित किया जाएगा। यदि साईन बोर्ड निरीक्षण में नहीं पाया गया तो शास्ति अधिरोपित की जाएगी।

(iv) बन्दोबस्तधारी श्रम विधियों के प्रावधानों के अनुसार आश्रय गृह, पीने का पानी, शिशु गृह (क्रेचेज) तथा फर्स्ट एड किट की व्यवस्था संबंधित बालूघाटों में लगे श्रमिकों के लिए करेगा।

(v) बन्दोबस्तधारी संबंधित क्षेत्रों का निरीक्षण करेगा तथा स्वयं अथवा अपने द्वारा अधिकृत प्रतिनिधियों के माध्यम से बालूघाटों का प्रचालन करेगा। किसी रूप में किये गये उपपट्टा (सबलेटिंग) के लिए बन्दोबस्ती रद्द कर दी जाएगी। बालूघाटों / नदी तल तक बालू के परिवहन के प्रयोजनार्थ पहुँच–पथ (अप्रोच रोड) का निर्माण सफल डाकबकता / बन्दोबस्तधारी द्वारा स्वयं अपने खर्च से किया जाएगा।

(vi) बालूघाट की सुरक्षा की जिम्मेवारी सफल डाकबकता / बन्दोबस्तधारी की होगी।

(vii) सफल डाकवक्ता/बन्दोबस्तधारी बंदोबस्त क्षेत्र के भीतर किसी अवैध खनन के लिए जिम्मेवारी होंगे और पाई गई किसी शिकायत पर गंभीरता से विचार किया जाएगा तथा सफल डाकवक्ता/बन्दोबस्तधारी के विरुद्ध नियमानुसार कार्रवाई किया जाएगा।

(viii) सफल डाकवक्ता/बन्दोबस्तधारी समाहर्ता द्वारा बालूघाटों के संचालन के संबंध में लोकहित में जारी निर्देशों और शर्तों तथा निदेशों का पालन करेंगे।

(ix) यथोक्त शर्तों, बंधेजों एवं निबंधनों का पालन नहीं करने पर कारण पृच्छा निर्गत कर बंदोबस्ती रद्द करने की कार्रवाई की जा सकेगी।

(x) सफल डाकवक्ता/बन्दोबस्तधारी को खनन राजस्व/जी0एस0टी0/आयकर/स्टाम्प शुल्क/ रजिस्ट्रेशन फीस का भुगतान नहीं करने की दशा में 30 दिनों के अन्दर कारण स्पष्ट करने हेतु नोटिस दी जायेगी। निर्धारित अवधि के अंदर सफल डाकवक्ता/बन्दोबस्तधारी द्वारा बकाया का भुगतान करने में असफल रहने की दशा में राशि वसूली की कार्रवाई के साथ-साथ बंदोबस्ती रद्द करने की भी कार्रवाई की जा सकेगी।

(xi) नीलामी हेतु प्रस्तावित बालूघाटों से संबंधित तकनीकी तथा अन्य बिन्दुओं यथा भूमि के अंचल, थाना, मौजा, खाता, खेसरा, रकबा तथा GPS Co-ordinate के संबंध में विवाद/त्रुटि पाए जाने पर संशोधन का अधिकार जिला खनन कार्यालय, पश्चिम चम्पारण, बेतिया का होगा। बालूघाटों का सीमांकन एवं नियमानुसार निर्धारित आयाम/विशिष्टियों का सीमा स्तंभ का अधिष्ठापन GPS Co-ordinate के अनुसार बालू बन्दोबस्तधारी को कराना होगा तथा खनन के क्रम में संधारित कराना सफल डाकवक्ता/बन्दोबस्तधारी की जवाबदेही होगी. जिसे ROP/ अंचलाधिकारी की उपस्थिति में प्रगणित कर बालूघाटों के निर्धारित क्षेत्र का Reduced Level (RL)/Pre-Level (PL) एवं Satelite Images खनन कार्य प्रारंभ करने के पहले जिला खनन कार्यालय, पश्चिम चम्पारण, बेतिया में समर्पित करना होगा।

(xii) बालूघाट से लिंक रोड और बालूघाट के बीच कोई प्राकृतिक जल मार्ग सिंचाई नहर पड़ती हो तो सफल डाकवक्ता/बन्दोबस्तधारी जल संसाधन विभाग की पूर्व अनुमति से अस्थायी संरचनाएँ खड़ा कर सकेगा। पूर्व अनुमति के लिए ऐसे आवेदन जल संसाधन विभाग के संबंधित मुख्य अभियंता के समक्ष दिए जाएंगे।

(xiii) बालूघाट में रैयती/बंदोबस्त जमीन होने पर संबंधित रैयत से सहमति प्राप्त कर बालू का खनन करना होगा। यह जिम्मेदारी पूर्णतः बंदोबस्तधारी की होगी एवं विभाग से कोई क्षतिपूर्ति का दावा मान्य नहीं होगा।

(xiv) बंदोबस्तधारी द्वारा बंदोबस्ती अवधि के दौरान किसी भी कारण से खनन कार्य नहीं करने की स्थिति में किसी भी प्रकार का नुकसान एवं क्षतिपूर्ति का दावा मान्य नहीं होगा।

(xv) ई-नीलामी एवं बालूघाट की बंदोबस्ती अवधि के दौरान उत्पन्न किसी भी प्रकार का विवाद बिहार खनिज (समानुदान, अवैध खनन, परिवहन एवं भण्डारण निवारण) नियमावली, 2019, (यथा संशोधित) के अधीन होगा।

(xvi) सफल डाकवक्ता/बन्दोबस्तधारी को इलेक्ट्रॉनिक माध्यम से भेजी गयी कोई भी सूचना/निदेश/आदेश इत्यादि IT-Act के तहत स्वीकार्य साक्ष्य के रूप में माना जाएगा।

17-04-23

खनिज विकास पदाधिकारी,
पश्चिम चम्पारण, बेतिया।

Annexure –II

(Mine Plan Approval Letter)

बिहार सरकार,
खान एवं भूतत्व विभाग।

पत्रांक 3916 /एम0, पटना, दिनांक– 28/12/2021

प्रेषक,

सुरेश प्रसाद,
विशेष कार्य पदाधिकारी।

सेवा मे,

Email

एन० के० इन्टरप्राईजेज,
प्रो० श्री नवनीत कुमार,
शांतीनगर, बेतिया,
जिला– पश्चिम चम्पारण,
ई–मेल– navneetksom@gmail.com

विषयः– **बेतिया जिला के जिलान्तर्गत गंडक नदी के बालूघाट इकाई संख्या 11 के खनन योजना के अनुमोदन के संबंध में।**

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि बिहार बालू खनन नीति–2019 यथा संशोधित एवं बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) के नियम–17 में वर्णित प्रावधानों के तहत **बेतिया जिला के जिलान्तर्गत गंडक नदी के बालूघाट इकाई संख्या 11** से संबंधित समर्पित खनन योजना के अनुमोदन पर प्राधिकृत समिति द्वारा समीक्षा की गई। समीक्षोपरांत निम्न शर्त्तों एवं बंधेजो के तहत खनन योजना अनुमोदित की गई है –

1. उक्त खनन योजना केन्द्र सरकार/राज्य सरकार द्वारा विनियमित अन्य सभी अधिनियम/ नियमावली में वर्णित प्रावधानों को तथा किसी न्यायालय/अन्य न्यायिक संस्था द्वारा पारित किये गये न्यायादेश को बिना प्रभावित किये अनुमोदित किया जा सकता है।
2. उक्त खनन योजना का अनुमोदन खान एवं खनिज (विकास एवं विनियमन) अधिनियम, 1957 (यथा संशोधित), बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 के नियम–17, वन संरक्षण अधिनियम, 1980, पर्यावरण सुरक्षा अधिनियम, 1986, श्रम संबंधी नियम, EMCSM 2020 तथा अन्य सभी सुसंगत अधिनियम/ नियमावली तथा उनमें वर्णित प्रावधानों के प्रतिकूल नही होगा। लीज के रकबा के अनुसार प्रति हेक्टेयर कम से कम 10 पौधा लगाना होगा तथा 50 प्रतिशत Survival सुनिश्चित करना होगा।
3. खनन योजना में निहित शर्त्तों का पालन करते हुए ही बालू खनिज का खनन् तथा प्रेषण किया जायेगा।
4. संबंधित सक्षम प्राधिकार से यथा वांछित प्रमाण–पत्र प्राप्त कर विभाग को अवगत कराना अनिवार्य होगा।
5. यदि किसी भी समय खनन योजना में वर्णित शर्त्तों के अनुपालन में अनियमितता पायी जाती है, तो खनन पदाधिकारी को नियमानुसार आवश्यक कार्रवाई करने का अधिकार होगा।
6. संबंधित बालूघाट में खनिज की उपलब्धता, पहुँच पथ का निर्माण तथा अन्य खनन कार्यों से संबंधित सम्पूर्ण जवाबदेही बालूघाट संचालनकर्ता की होगी तथा इसमें किसी भी तरह का कोई दावा अथवा क्षतिपूर्ति मान्य नहीं होगा।
7. खनन योजना मे वर्णित सभी तकनीकि तथा अन्य बिन्दुओं से संबंधित आँकड़ों की सत्यता / वैधता की जिम्मेवारी ROP/बंदोबस्तधारी की होगी तथा भविष्य में उपर्युक्त के संबंध में किसी प्रकार की भिन्नता/अनियमितता की पूरी जवाबदेही ROP/बंदोबस्तधारी की होगी।

P.T.O.

8. खनन् कार्य के दौरान घाट संचालनकर्त्ता द्वारा पर्यावरण संबंधी मानकों का नियमित रूप से अनुश्रवण करने की व्यवस्था करनी होगी।खनन् कार्य के दौरान नदियों के प्राकृतिक बहाव आदि में किसी भी तरह का व्यवधान/रूकावट/बदलाव करना पूर्ण रूप से प्रतिबंधित होगा।

9. बालूघाट में Secondary Loading की व्यवस्था इस प्रकार सुनिश्चित की जाएगी ताकि गीला बालू का परिवहन नहीं हो।

10. यद्यपि खनन योजना में Semi-mechanised mining को प्राथमिकता दी गयी है तथापि Manual Mining पर कोई प्रतिबंध नहीं रखा जाएगा एवं स्थानीय व्यक्तियों को नियोजन देने के दृष्टिकोण से Manual Mining को उचित अवसर प्रदान करना होगा।

11. सफल डाकवक्ता/बंदोबस्तधारी द्वारा खान एवं खनिज (विकास एवं विनियमन) अधिनियम, 1957, बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) तथा बिहार बालू खनन नीति, 2019 के प्रावधानों का अनिवार्य रूप से पालन किया जायेगा।

12. सफल डाकवक्ता/बंदोबस्तधारी को पर्यावरण सुरक्षा हेतु सभी उपाय करने होंगें तथा नियमित रूप से जल/वायु की गुणवत्ता की जाँच/अनुश्रवण की व्यवस्था सुनिश्चित करनी होगी।

13. सफल डाकवक्ता/बंदोबस्तधारी को उत्पादन/प्रेषण का आँकड़ा एवं पंजी संधारित करना अनिवार्य होगा जिसे नियमित रूप से अद्यतन किया जाएगा।

14. संचालन करने वाले घाटों की सीमांकन कराना, RL/PL प्राप्त करना एवं उसे खनन के कम में संधारित कराना सफल डाकवक्ता/बंदोबस्तधारी की जवाबदेही होगी, जिसे ROP/अंचलाधिकारी की उपस्थिति में प्रमाणित करवाकर खनन कार्य करना होगा।

15. बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) में वर्णित प्रतिबंधित क्षेत्रों में किसी प्रकार का खनन कार्य वर्जित होगा।

16. बालूघाटों से बालू का निष्कासन एवं प्रेषण आबादी से सटे ग्रामीण सड़क को छोड़कर अलग मार्ग से करना होगा।

17. खनन योजना की एक–एक प्रति, जो संबंधित ROP द्वारा प्रत्येक पृष्ठ पर हस्ताक्षरित होगी, निदेशक, खान एवं भूतत्व विभाग के कार्यालय के अतिरिक्त सगाहर्त्ता, बेतिया के गोपनीय कोषांग, उपनिदेशक, तिरहुत अंचल, तिरहुत के कार्यालय में उपलब्ध कराना सुनिश्चित किया जायेगा, ताकि किसी भी समय इसकी जाँच की जा सके।

प्राधिकृत समिति की अनुशंसा के आलोक में उपरोक्त शर्तों के साथ बेतिया **जिलान्तर्गत गंडक नदी के बालूघाट इकाई संख्या 11** से संबंधित रामपिंत खनन योजना के अन्तर्गत ही बालू उत्खनन् कार्य सुनिश्चित करवाया जायेगा

विश्वासभाजन

27.7.2023

(सुरेश प्रसाद)
विशेष कर्य पदाधिकारी

Annexure –III

(Public Hearing Proceedings)

लोक–सुनवाई का वृत्त

मेसर्स एन के. इन्टरप्राईजेज, श्री मदनीत कुमार, ग्राम–शांति नगर, पो० + प्रखण्ड–बेतिया जिला – पश्चिम चम्पारण (बेतिया)–845438 द्वारा मसान, मनियारी, हरबोरा एवं बिरहा नदी के बालू घाट ब्लॉक 11 (कुल क्षेत्रफल–11.13 हेक्टेयर) मौजा–पिपरा, महुई, मधुआया, चकडी, रामपुर, बारवा, प्रखण्ड–रामनगर, मैनाटाढ, गौनाहा, जिला–पश्चिम चम्पारण (बेतिया) के बालू खनन योजना का पर्यावरणीय स्वीकृति के उद्देश्य से लोक–सुनवाई पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के अधिसूचना सं० - एस० ओ० 1533, दिनांक 14 सितम्बर 2006 तथा संशोधित के आलोक में **दिनांक 16.03.2024 को पूर्वाह्न 11:30 बजे प्रखंड समागार, रामनगर, जिला–पश्चिम चम्पारण (बेतिया)** के प्रांगण में लोक–सुनवाई की गयी।

यह लोक सुनवाई पर्यावरण प्रभाव मुल्यांकन अधिसूचना 2006 के तहत् गठित स्टेट्स एक्सपर्ट एप्पाइजल निर्धारण प्राधिकरण, बिहार द्वारा निर्गत टी0ओ0आर0 (पर्यावरण विचारों) पत्र संख्या SIA/(9): 2464/2023, दिनांक 18.08.2023 के आलोक में श्री अनिल कुमार सिन्हा, अपर समाहर्ता, पश्चिम चम्पारण (बेतिया), की अध्यक्षता में की गयी। **उपस्थिति पंजी संलग्न (अनुलग्नक–1)**

प्रसारित लोक–सुनवाई की सूचना पर्षद द्वारा दैनिक समाचार पत्रों यथा "दैनिक जागरण" एवं "हिन्दुस्तान" के माध्यम से दिनांक **08.02.2024** को प्रकाशित की गयी है। लोक सुनवाई के दौरान श्री एस.एन.ठाकुर, क्षेत्रीय पदाधिकारी, बिहार राज्य प्रदूषण नियंत्रण पर्षद, मुजफ्फरपुर के द्वारा लोक सुनवाई में उपस्थित सभी जन समुदाय, खनन पट्टाधारक एवं पदाधिकारियों का स्वागत करते हुए पर्यावरण प्रभाव मूल्यांकन अधिसूचना, 2006 के तहत् इकाई के पर्यावरणीय स्वीकृति हेतु लोक सुनवाई की आवश्यकता पर प्रकाश डाला गया।

अपर समाहर्ता सह सभा के अध्यक्ष महोदय द्वारा बताया गया कि बालू एक नवीनीकरण योग्य है, जिसका सावधानीपूर्वक तरीके से उपयोग किया जाना आवश्यक है। इसके अत्यधिक दोहन से पर्यावरण को काफी नुकसान होने से इनकार नहीं किया जा सकता है। साथ ही इसका सुनियोजित दोहन से स्थानीय एवं राज्य स्तर पर आर्थिक लाभ होता है। पर्यावरण के प्रदूषण को नियंत्रण हेतु उपाय सुझाए गए हैं, जिसका अनुपालन होना चाहिए। नियमों का पालन नहीं होने पर, इसकी सूचना जिला प्रशासन को शीघ्र देने पर शिकायत का निराकरण किया जा सकेगा। इनके द्वारा लोगों को अवगत कराया गया कि बालू पारिस्थितिकी से संबंधित विस्तृत जानकारी पर्यावरण सलाहकार द्वारा दी जायगी। तत्पश्चात् आप लोगों के द्वारा सुझाव दिया जायगा, जिसे लिपिबद्ध करते हुए अनुशंसा की जायगी।

निदेशानुसार परियोजना के पर्यावरणीय सलाहकार श्री मुन्ना कुमार शर्मा ने प्रस्तावित बालू खनन योजना का परिचय, उत्पादन प्रक्रिया, प्रदूषण नियंत्रण व्यवस्था एवं सोशल एनवायरमेन्टल रेस्पॉन्सिबिलिटी आदि के संबंध में अवगत कराया। इनके द्वारा सूचित किया गया कि–

1 यह बालू खनन पट्टा बालू घाट मसान, मनियारी, हरबोरा एवं बिरहा नदी के बालू घाट ब्लॉक नं0–11 (कुल क्षेत्रफल–11.13 हेक्टेयर) मौजा–पिपरा महुई, मधुआया, चकडी, रामपुर, बारवा प्रखण्ड–रामनगर मैनाटाढ, गौनाहा, जिला–पश्चिम चम्पारण (बेतिया) में प्रस्तावित है। बिहार सरकार के खान एवं भूतत्व विभाग के द्वारा मेसर्स एन. के. इन्टरप्राईजेज, श्री मदनीत कुमार, ग्राम शांति नगर, पो० -

प्रखण्ड–ढेकहा, जिला – पश्चिम चम्पारण (बेतिया)–845438 को इस खनन पट्टा के लिए वैधानिक स्वीकृति आदेश (L.O.I.) निर्गत किया गया है। इस खनन पट्टा बालू घाट मसान, मनेजरी, हरबोरा एवं बिरहा नदी के बालू घाट ब्लॉक –11 (कुल क्षेत्रफल–11.13 हेक्टेयर) मौजा–पिपरा, महुई, भथुआवा, पकड़ी, रामपुर बारवा, प्रखण्ड–रामनगर, मैनाटांड, गौनाहा, जिला–पश्चिम चम्पारण (बेतिया) से प्रतिवर्ष 10248.0 टन प्रतिवर्ष बालू का खनन प्रस्तावित है। इस योजना का कुल अनुमानित लागत 2888.4535 लाख (नीलामी लागत सहित) है। जिला सर्वेक्षण रिपोर्ट में बालू घाट मसान, मनेजरी, हरबोरा एवं बिरहा नदी के बालू घाट ब्लॉक–11 (कुल क्षेत्रफल–11.13 हेक्टेयर) मौजा–पिपरा, महुई भथुआवा पकड़ी, रामपुर, बारवा, प्रखण्ड -रामनगर मैनाटांड, गौनाहा जिला–पश्चिम चम्पारण (बेतिया) को सम्मिलित किया गया है

2. बालू खनन, खनन पट्टा के सीमा के अंदर "वैज्ञानिक विधि" तथा अनुमोदित "खनन योजना" के अनुसार किया जाएगा। तथा इस योजना के क्रियान्वयन से पर्यावरण पर पड़ने वाले दुष्प्रभावों के नियत्रण के लिए विशेष उपाय पर्यावरण प्रभाव मुल्यांकन प्रतिवेदन में दर्शाए गए है।
3. प्रस्तावित बालू खनन क्षेत्र के चारों ओर सुरक्षा क्षेत्र छोड़ा जाएगा, जिससे नदी तट को कोई नुकसान नहीं हो।
4. खनन का कार्य केवल 1 मीटर गहराई तक अथवा भूगर्भीय जल सतह के ऊपर तक ही सीमित रहेगा।
5. खनन क्षेत्र में वाहनों के आवागमन हेतु अस्थायी व वैकल्पिक मार्ग का निर्माण ग्रामवासियों से परामर्श लेकर तथा सहमति बनाकर किया जाएगा। इस मार्ग के रख–रखाव का दायित्व परियोजना प्रस्तावक का होगा।
6. खनन परिचालन के क्रियान्वयन से पूर्व सभी संवेदनशील स्थानों पर जैसे– नदी, खनन क्षेत्र इत्यादि पर चेतावनी / सावधानी सूचना पट्ट लगाए जाएंगे तथा आकस्मिक आपदा की स्थिति से निपटने के लिए आवश्यक सेवाओं के सूचना / मोबाईल नम्बर उल्लेख किया जायेगा।
7. प्रस्तावित परियोजना में वृक्षारोपण का प्रावधान किया गया है जो ग्रामीणों के परामर्श पर उपलब्ध भूमि, मार्गों के दोनों ओर एवं ग्राम के मध्य लगाएं जाएगे। इन पौधों की देखभाल अगले पांच वर्षों तक परियोजना प्रस्तावक के द्वारा की जाएगी।
8. खनन क्षेत्र व निकटवर्ती गाँव के मध्य सघन वृक्षारोपण से ध्वनि प्रदूषण को नियंत्रित किया जा सकेगा। स्वीकृत प्रदूषण को मानकों के अनुरूप बनाए रखने के लिए रात्रि में वाहनों द्वारा ध्वनि यंत्रों (Horn) का न्यूनतम प्रयोग किया जाएगा। उच्च दबाव वाले ध्वनि यंत्रों (High Pressure Horn) का उपयोग करने वाले वाहनों का खनन क्षेत्र में प्रवेश वर्जित रहेगा इसके साथ ही रात्रि के समय खनन प्रक्रिया पूरी तरह बन्द रहेगी तथा एकत्र खनिज को ही परिवहन किया जाएगा।
9. खनन कार्य व खनिज के परिवहन से उत्पन्न धूलकणों के नियत्रण हेतु प्रतिदिन तीन बार जल का छिड़काव किया जाएगा। खदान से निर्गत बालू को तिरपाल से ढक कर परिवहन किया जाएगा। सरकार द्वारा अनुमोदित खनिज को खदान से 300 मीटर की दूरी पर एकत्र कर परिवहन किया जायगा। खनिज से रिसने वाला जल से नदी को जलमग्न नहीं होने दिया जायगा। खनिज में उपलब्ध नमी से धूलकणों के उत्सर्जन का नियंत्रण हो सकेगा।

10. खनन क्षेत्र में प्रदूषण मानकों का पालन करने वाले वाहनों (PUC धारक) का उपयोग किया जाएगा तथा इसका रिकार्ड रखा जाएगा।

11 खनन क्षेत्र में आवागमन करने वाले वाहनों की गति सीमा नियंत्रित होगी तथा तेज गति से चलने वाले वाहनों का खनन क्षेत्र में प्रवेश वर्जित रहेगा।

12 प्रस्तावित परियोजना के अन्तर्गत पर्यावरण सुरक्षा की दृष्टि से एक प्रबंधन प्रकोष्ठ बनाया जाएगा जो सभी प्रकार की व्यवस्था का अनुपालन सुनिश्चित करेगा व समय-समय पर ग्रामवासियों से इसके जानकारी एवं सुझाव प्राप्त करेगा।

परियोजना प्रस्तुतिकरण के पश्चात् उपस्थित लोगों के द्वारा सुझाव/मन्तव्य दिए गए जो निम्नवत् है

क्रमांक	प्रतिक्रिया/सुझाव	प्रस्तावक के जवाब
1.	श्री मुनीब साह, पिता श्री खोबारी साह, रानपुर, बेतिया– इनके द्वारा पूछा गया कि बालू खनन, लोडिंग एवं परिवहन के समय धूलकण उड़ेगा, तो इसके रोक–थाम के लिए क्या उपाय किया जायेगा।	पर्यावरण सलाहकार द्वारा अवगत कराया गया कि बालू पत्ता लोडिंग निर्धारित सीमा के अनुसार होगी। बालू को ढक कर परिवहन किया जायगा जिससे गाड़ी के पीछे चलने वाले व्यक्तियों को किसी भी प्रकार की परेशानी नहीं हो। साथ ही सड़क पर बालू भी नहीं गिरे। बालू लोडिंग के पश्चात् पानी छिड़काव के बाद ही परिवहन किया जायगा, जिससे हवा के साथ वातावरण में धूलकण नहीं फैले।
2.	श्री उदय प्रकाश मिश्रा, महुली, बेतिया– इनके द्वारा पूछा गया कि 01 मीटर से अधिक खुदाई होने पर शिकायत किस कार्यालय में करेंगे।	खनिज विकास पदाधिकारी द्वारा लोगों को बताया गया कि परामर्शदाता द्वारा बताये गये उपायों का अनुपालन नहीं होने पर जिलाधिकारी, खनिज विकास पदाधिकारी, बेतिया एवं बिहार राज्य प्रदूषण नियंत्रण पर्षद्, मुजफ्फरपुर के कार्यालय में शिकायत किया जा सकता है। प्राप्त शिकायत के आधार पर पदाधिकारी द्वारा शीघ्र से कार्रवाई की जायेगी।
3.	मो0 फिरोज खान, बघुआव, मधुबनी – इनके द्वारा सुझाव दिया गया कि पर्यावरण संरक्षण के लिए बालू खनन क्षेत्र के आस–पास वृक्षारोपण एवं उसके विकास के लिए समुचित देखभाल किया जाना चाहिए	पर्यावरण सलाहकार द्वारा अवगत कराया गया कि एतुच्च पथ के दोनों किनारे, नदी के किनारे एवं उपलब्ध सरकारी जमीन पर वृक्षारोपण की जायेगी। पेड़ को गोबैयन द्वारा घेरकर जानवरों से रक्षा किया जायगा। पेड़ों की सिंचाई एवं देख रेख करने की जिम्मेवारी बालू परियोजना के प्रबंधक की होगी।
4.	मो0 इरफान खान, अमोलवा, बेतिया–इनके द्वारा पूछा गया कि सड़क में गड्ढा होने पर ठीक कौन करेगा। किसके पैसा से मरम्मति होगा।	अपर समाहर्त्ता महोदय द्वारा उपस्थित जनसमुदाय को अवगत कराया गया कि परियोजना के कुल लागत का 2% स्थानीय लोगों के जनकल्याण यथा–चिकित्सालय में सुविधा, पेयजल, बिजली, सड़क निर्माण, वृक्षारोपण, आदि की व्यवस्था हेतु प्रशासन के नियंत्रण में खर्च किया जायेगा।
5.	मो0 गुलाब खान, बैकुंठपुर, बेतिया–इनके द्वारा पूछा गया कि स्थानीय लोगों को रोजगार मिलेगा की नहीं।	इस संबंध में खनिज विकास पदाधिकारी द्वारा अवगत कराया गया कि बालू खनन, परिवहन हेतु वाहन एवं अन्य कार्यों में प्राथमिकता के आधार पर स्थानीय लोगों को रोजगार दिया जायेगा।

बालू खनन गतिधारक द्वारा लोगो का आश्वासन दिया गया कि लोक सुनवाई के क्रम में पर्यावरण सलाहकार द्वारा बताये गये नियमो एवं प्रदूषण नियंत्रण संबंधी कार्यों का अनुपालन मेरे द्वारा किया जायेगा।

लोक–सुनवाई के अंत मे उपस्थित जनसमुदाय द्वारा सर्वसम्मति से बालू घाट से खनन परियोजना को शीघ्र प्रारंभ करने के लिए सक्षम प्राधिकार को अनुशंसा करने का निर्णय लिया गया एवं सहमति प्रदान की गयी। तत्पश्चात् लोक–सुनवाई सधन्यवाद समाप्त करने की घोषणा की गयी।

18/03/24

क्षेत्रीय पदाधिकारी
बि०रा०प्र०नि०पर्षद्,
मुजफ्फरपुर

18/03/24

अपर समाहर्ता
पश्चिम चम्पारण (बेतिया)

Annexure –IV

Terms of Reference (ToR)

File No.SIA/1(a)/2464/2023

Goverment of India

State Level Environment Impact Assessment Authority

Bihar

***

To,

M/s NAVNEET KUMAR
Shanti Nagar Niyar Ujjain Tola, Ward 23, P.O- Bettiah,
West Champaran-845438
Bihar

Tel.No.-; Email:naveetkumarblock11@gmail.com

Sub. Terms of Reference to the Proposed Sand Mining Project of Area 11.13 Ha at Sand Ghat Unit No.-11 on river Masan (Pipra Ghat) Masan (Mahui Ghat), Maniyari (Bhaathuhawa Ghat), Harbora (Bairia Ghat), Biraha (Pakri Ghat), Biraha (Sirhwa Ghat) District: West Champaran (Bettiah), State – Bihar., Shanti Nagar Niyar Ujjain Tola, Ward 23, P.O- Bettiah

Dear Sir/Madam,

This has reference to the proposal submitted in the Ministry of Environment, Forest and Climate Change to prescribe the Terms of Reference (TOR) for undertaking detailed EIA study for the purpose of obtaining Environmental Clearance in accordance with the provisions of the EIA Notification, 2006. For this purpose, the proponent had submitted online information in the prescribed format (Form-1) along with a Pre-feasibility Report. The details of the proposal are given below:

1. Proposal No.:	SIA/BR/MIN/440211/2023
2. Name of the Proposal:	Proposed Sand Mining Project of Area 11.13 Ha at Sand Ghat Unit No.-11 on river Masan (Pipra Ghat) Masan (Mahui Ghat), Maniyari (Bhaathuhawa Ghat), Harbora (Bairia Ghat), Biraha (Pakri Ghat), Biraha (Sirhwa Ghat) District: West Champaran (Bettiah), State – Bihar.
3. Category of the Proposal:	Non-Coal Mining
4. Project/Activity applied for:	1(a) Mining of minerals
5. Date of submission for TOR:	14 Aug 2023

Date : 18-08-2023

Mr. Sudhir Kumar
(Member Secretary)

Office : **2nd Floor, Beltron B**
Phone No : Mobile : **9113472799**
Email id : **seiaa.ms.br@gmail.com**

Note : This is auto tor granted letter.

In this regard, under the provisions of the EIA Notification 2006 as amended, the Standard TOR for the purpose of preparing environment impact assessment report and environment management plan for obtaining prior environment clearance is prescribed with public consultation as follows:

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

Terms of Reference (TOR) for preparation of Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for "Mining of Minerals" as per the EIA Notification, 2006 has been devised to improve the quality of the reports and facilitate decision-making transparent and easy. TOR will help the project proponents to prepare report with relevant project specific data and easily interpretable information. TOR for mining of minerals is expected to cover all environmental related features.

Mining of minerals plays a positive role in the process of country's economic development. In addition to the contribution towards economic growth, mining can also be a major source of degradation of physical as well as social environment, unless it is properly managed. Environmental impacts can arise during all activities of the mining process. Minimizing the damage due to mining operations depends on sound environmental practices in a framework of balanced environmental legislation. The potential adverse effects of mining activities include air pollution, surface and groundwater pollution, noise and vibration, damage to local ecology, natural topography and drainage, depletion of water resources etc. All these environmental components are required to be considered while selecting a proper methodology of mining, mitigation measures to reduce pollution load, conservation of natural resources etc.

The projects of mining of minerals as stated in the schedule require prior environment clearance under the EIA notification, 2006. Category 'A' Projects are handled in the MoEF&CC and Category 'B' projects are being handled by the respective State Environment Impact Assessment Authorities (SEIAAs) notified by MoEF&CC and following the procedure prescribed under the EIA Notification, 2006. As per this Notification, as amended, the projects of mining of minor minerals with mining lease area equal to or greater than 50 hectare are to be handled at the level of the MoEF&CC for grant of EC. Such projects with mining lease area less than 50 hectare are to be handled by the respective State Environment Impact Assessment Authority (SEIAA).

1(a):STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR NON-COAL MINING PROJECTS AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.

2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.

3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.

4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the areashould be provided. Such an Imagery of

the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).

5) Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.

6) Details about the land proposed for mining activities should be givenwith information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.

7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large,may also be detailed in the EIA Report.

8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.

9) The study rea will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

10) Land use of the study rea delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

12) A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.

13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.

14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.

15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.

16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.

17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlifeand copy furnished.

18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered.

20) Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).

21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.

23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.

25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.

26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.

27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.

28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.

30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.

31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered

under plantation and the species to be planted. The details of plantation already done should be given.The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.

32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.

34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.

35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.

37) Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

38) Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.

39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.

40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.

42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.

43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.

44) Besides the above, the below mentioned general points are also to be followed:-

a) All documents to be properly referenced with index and continuous page numbering.

b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.

c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

d) Where the documents provided are in a language other than English, an English translation should be provided.

e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.

f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.

g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.

h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.

i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

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Annexure –V

(Satellite Imaginary Last 3 Years)

MASAN RIVER


SAND GHAT UNIT NO. -11
Legend
Rabari Mahuava
Rabari Mahuava
Google Earth


SAND GHAT UNIT NO. -11
Legend
Google Earth


SAND GHAT UNIT NO. -11
Legend
Google Earth


SAND GHAT UNIT NO. -11
Legend
Google Earth


SAND GHAT UNIT NO. -11
Legend
Google Earth

MANIYARI RIVER


SAND GHAT UNIT NO. -11
Legend
Google Earth


SAND GHAT UNIT NO. -11
Legend
Google Earth


SAND GHAT UNIT NO. -11
Legend
Google Earth


SAND GHAT UNIT NO. -11
SETTELITE IMAGERY DATED
RIVER: BRAHMANI
Legend
Google Earth
N


SAND GHAT UNIT NO. -11
Legend
Google Earth

HARBORA RIVER

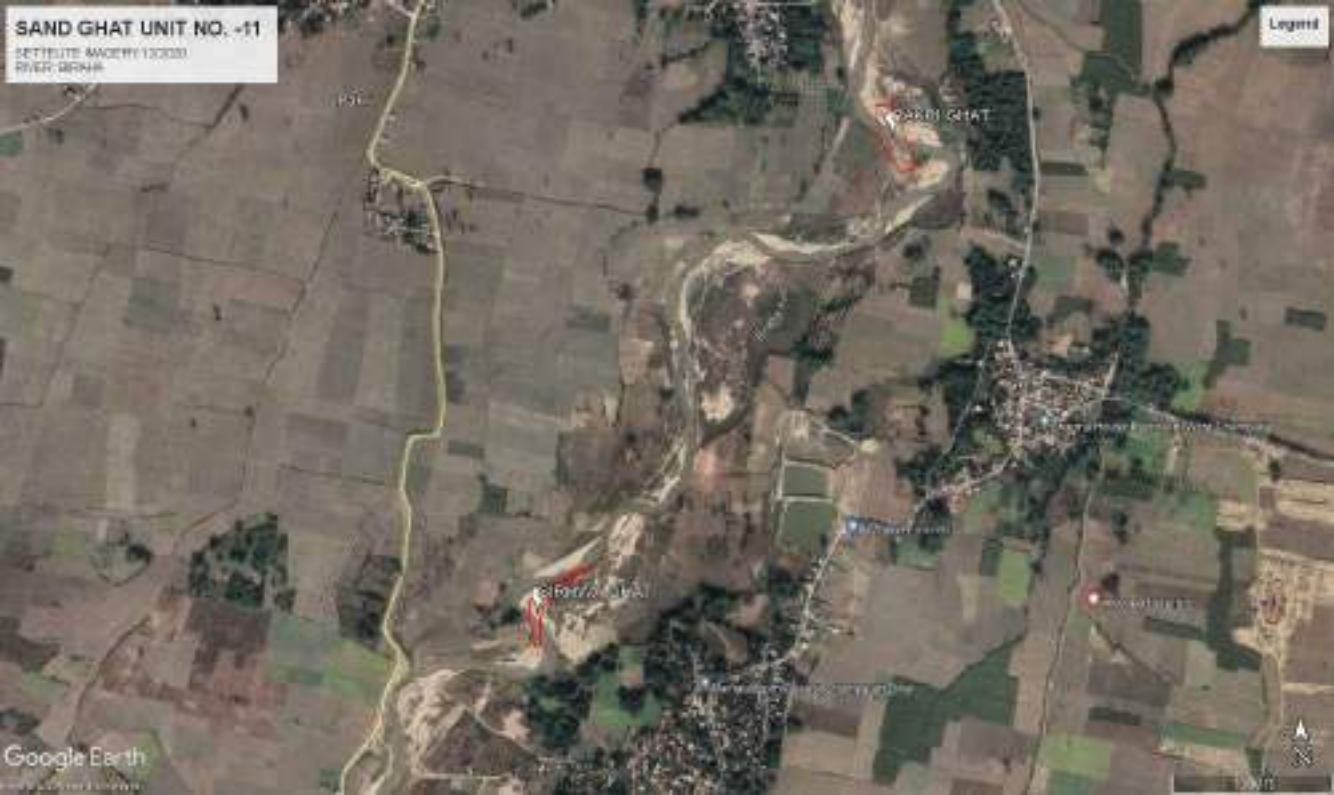

SAND GHAT UNIT NO. -11
RIVER HARIDRA
Legend
Google Earth

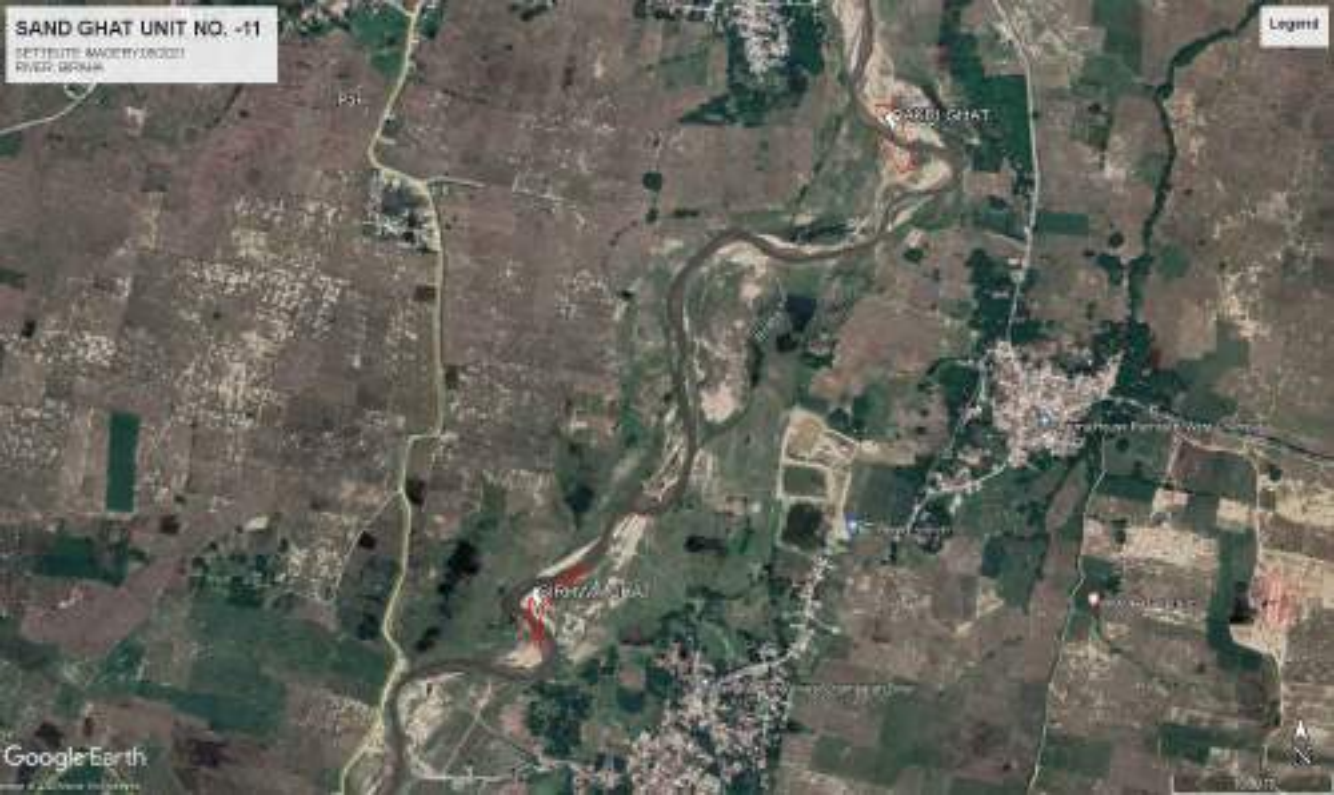

SAND GHAT UNIT NO. -11
SETTELITE IMAGERY (2021)
RIVER HARSIDRA
Legend
Google Earth
N


SAND GHAT UNIT NO. -11
SETTELITE IMAGERY 19/2022
RIVER HARSORA
Legend
Google Earth
N

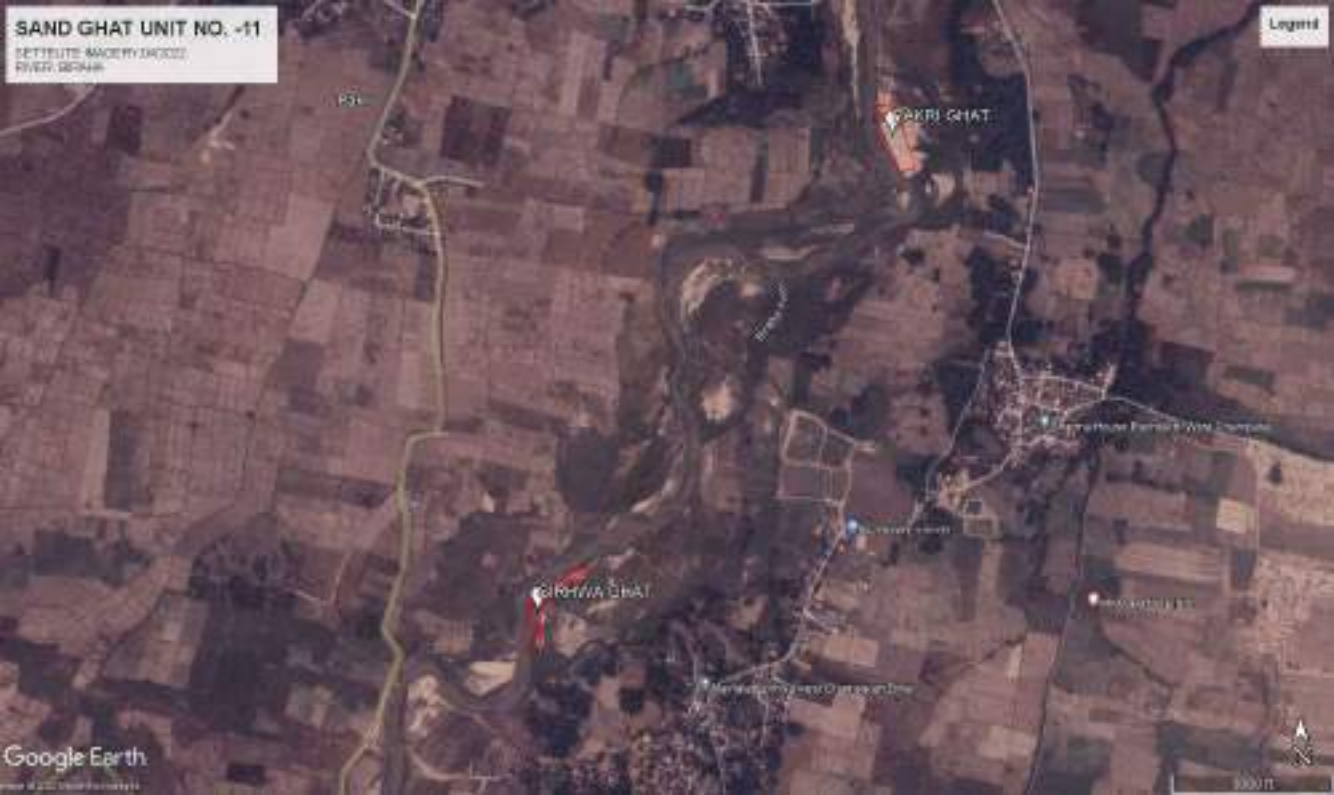
BIRAHA RIVER


SAND GHAT UNIT NO. -11
SETTELITE IMAGERY
RIVER: BEHNA
Legend
Pali
PAERI GHAT
Google Earth


SAND GHAT UNIT NO. -11
SETTELITE IMAGERY (12/2020)
RIVER: BEHNA
Legend
Google Earth


SAND GHAT UNIT NO. -11
SETTELITE IMAGERY(2021)
RIVER: BEHNA
Legend
Google Earth


SAND GHAT UNIT NO. -11
SETTELITE IMAGERY 19/2021
RIVER: BEHNA
Legend
Google Earth


SAND GHAT UNIT NO. -11
SETTELITE IMAGERY DATED
RIVER: SEHAR
Legend
PSK
AKRI GHAT
SIRHWA GHAT
Google Earth


SAND GHAT UNIT NO. -11
SETTELITE IMAGERY (2022)
RIVER BEHNA
Legend
Google Earth

Annexure –VI

OVERLAPPING MAP



N

W E

S

Legend

PROPOSED GHAT

PROPSED GHAT AREA: 7.17 Ha.

OVERLAPPED AREA: 0 Ha.

PROJECT: SAND BLOCK - 11
AREA: 7.17HA.
RIVER: MASAN



N

W E

S

Legend

PROPOSED GHAT

PROPSED GHAT AREA: 1.48 Ha.

OVERLAPPED AREA: 0 Ha.

PROJECT: SAND BLOCK-11
AREA:1.48 HA.
RIVER: MANIYARI



N
W E
S

PROPOSED GHAT

OLD GHAT

OVERLAPPED

PROPSED GHAT AREA: 1.66 Ha.

OVERLAPPED AREA: 1.08 Ha.

PROJECT: SAND BLOCK-11
AREA: 1.66HA.
RIVER: HARBORA



N

W E

S

Legend

PROPOSED GHAT

PROPSED GHAT AREA: 0.82 Ha.

OVERLAPPED AREA: 0 Ha.

PROJECT: SAND BLOCK-11
AREA: 0.82HA.
RIVER: BIRAHA

Annexure –VII

(Monitoring reports)

MASAN RIVER

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO :ETS/1456-1/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-1 PROJECT SITE-1
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-01	74.9	37.1	11.6	27.7	0.60
2	04.10.2023	ETS/DI-02	71.7	42.2	14.7	29.5	0.85
3	09.10.2023	ETS/DI-03	70.9	41.4	12.3	25.1	0.75
4	12.10.2023	ETS/DI-04	71.5	44.3	11.0	26.1	0.85
5	15.10.2023	ETS/DI-05	73.4	38.7	15.5	29.6	0.68
6	18.10.2023	ETS/DI-06	76.4	33.7	13.5	28.9	0.63
7	22.10.2023	ETS/DI-07	80.9	48.6	11.4	26.3	0.65
8	25.10.2023	ETS/DI-08	77.7	46.6	15.8	29.4	0.50
9	01.11.2023	ETS/DI-09	74.1	49.2	14.3	29.3	0.75
10	04.11.2023	ETS/DI-10	81.3	36.5	13.4	28.9	0.69
11	08.11.2023	ETS/DI-11	86.6	42.3	14.5	26.9	0.56
12	11.11.2023	ETS/DI-12	83.1	38.1	12.0	27.4	0.65
13	15.11.2023	ETS/DI-13	87.5	40.8	12.9	26.6	0.46
14	18.11.2023	ETS/DI-14	75.1	38.7	13.8	29.1	0.66
15	23.11.2023	ETS/DI-15	75.6	34.3	15.2	26.2	0.95
16	27.11.2023	ETS/DI-16	81.7	35.9	16.1	26.7	0.66
17	01.12.2023	ETS/DI-17	88.4	32.5	11.1	25.8	0.69
18	04.12.2023	ETS/DI-18	86.1	32.8	12.2	28.5	0.71
19	08.12.2023	ETS/DI-19	84.0	33.0	12.3	27.2	0.66
20	11.12.2023	ETS/DI-20	78.4	35.4	9.7	28.6	0.46
21	15.12.2023	ETS/DI-21	81.6	37.7	11.0	30.7	0.69
22	18.12.2023	ETS/DI-22	72.9	33.3	13.4	31.9	0.66
23	22.12.2023	ETS/DI-23	71.5	32.6	12.4	25.9	0.73
24	25.12.2023	ETS/DI-24	74.2	36.2	15.3	29.0	0.62
Minimum			70.9	32.5	9.7	25.1	0.46
Maximum			88.4	49.2	16.1	31.9	0.95
Average			78.3	38.4	13.1	28.0	0.67
98 PERCENTILE			88.0	48.9	16.0	31.3	0.90

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

M.D HUMRA
Quality Manager

Note:-

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1456-2/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023
Analysis End Date : 30.10.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-2 PROJECT SITE 2
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-25	74.8	39.3	12.2	29.4	0.50
2	07.10.2023	ETS/DI-26	71.7	44.7	15.5	31.3	0.71
3	10.10.2023	ETS/DI-27	70.7	43.9	13.0	26.6	0.62
4	14.10.2023	ETS/DI-28	71.3	47.0	11.6	27.6	0.71
5	17.10.2023	ETS/DI-29	73.4	41.0	16.4	31.4	0.56
6	21.10.2023	ETS/DI-30	76.3	35.7	14.3	30.6	0.53
7	24.10.2023	ETS/DI-31	80.9	51.5	12.1	27.9	0.54
8	28.10.2023	ETS/DI-32	77.7	49.4	16.8	31.2	0.42
9	03.11.2023	ETS/DI-33	74.0	52.1	15.1	31.1	0.62
10	06.11.2023	ETS/DI-34	81.1	38.6	14.1	30.6	0.58
11	10.11.2023	ETS/DI-35	86.5	44.8	15.4	28.5	0.47
12	13.11.2023	ETS/DI-36	83.0	40.4	12.8	29.0	0.54
13	17.11.2023	ETS/DI-37	87.4	43.2	13.6	28.2	0.38
14	20.11.2023	ETS/DI-38	75.0	41.0	14.6	30.8	0.55
15	24.11.2023	ETS/DI-39	75.5	36.2	16.0	27.8	0.79
16	27.11.2023	ETS/DI-40	81.7	38.0	17.0	28.3	0.55
17	03.12.2023	ETS/DI-41	87.2	34.3	11.9	27.3	0.58
18	06.12.2023	ETS/DI-42	86.1	34.7	12.9	30.2	0.59
19	10.12.2023	ETS/DI-43	84.0	34.8	13.0	28.7	0.55
20	13.12.2023	ETS/DI-44	78.4	35.5	10.2	30.3	0.38
21	16.12.2023	ETS/DI-45	81.5	34.6	11.6	32.4	0.58
22	20.12.2023	ETS/DI-46	72.8	35.3	14.1	33.8	0.55
23	23.12.2023	ETS/DI-47	71.3	34.5	13.1	27.4	0.61
24	27.12.2023	ETS/DI-48	74.1	38.4	16.3	30.0	0.52
Minimum			70.7	34.3	10.2	26.6	0.38
Maximum			87.4	52.1	17.0	33.8	0.79
Average			78.2	40.4	13.9	29.6	0.56
98 PERCENTILE			87.3	51.8	16.9	33.2	0.75

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

****End of Test Report****

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TEST REPORT

TEST REPORT NO :ETS/1456-3/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 10.10.2023
Analysis End Date : 02.01.2024
Sampling Done By : ETS STAFF
Sampling Location : AAQ-3 RAIBARI MAHAUWA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	05.10.2023	ETS/DI-49	64.6	31.9	10.0	24.0	0.35
2	09.10.2023	ETS/DI-50	62.0	36.4	12.7	25.5	0.40
3	12.10.2023	ETS/DI-51	61.1	35.7	10.6	21.7	0.36
4	16.10.2023	ETS/DI-52	61.7	38.2	9.4	22.5	0.41
5	19.10.2023	ETS/DI-53	63.3	33.4	13.4	25.5	0.35
6	23.10.2023	ETS/DI-54	65.9	29.2	11.6	24.9	0.47
7	26.10.2023	ETS/DI-55	69.8	41.9	9.8	22.7	0.54
8	30.10.2023	ETS/DI-56	67.0	40.2	13.7	25.4	0.52
9	05.11.2023	ETS/DI-57	63.9	42.5	12.3	25.3	0.42
10	08.11.2023	ETS/DI-58	70.1	31.5	11.6	24.9	0.56
11	12.11.2023	ETS/DI-59	74.7	36.5	12.5	23.2	0.59
12	15.11.2023	ETS/DI-60	71.6	32.9	10.4	23.6	0.61
13	19.11.2023	ETS/DI-61	75.5	35.2	11.1	23.0	0.42
14	21.11.2023	ETS/DI-62	64.7	33.4	11.9	25.0	0.41
15	25.11.2023	ETS/DI-63	65.2	29.5	13.1	22.6	0.49
16	29.11.2023	ETS/DI-64	70.5	31.0	13.9	23.0	0.47
17	05.12.2023	ETS/DI-65	76.2	28.0	9.7	22.3	0.72
18	08.12.2023	ETS/DI-66	74.3	30.1	10.5	24.6	0.74
19	12.12.2023	ETS/DI-67	72.5	33.6	10.6	23.4	0.66
20	15.12.2023	ETS/DI-68	67.6	36.3	8.3	24.7	0.54
21	18.12.2023	ETS/DI-69	70.3	28.6	9.4	26.4	0.77
22	22.12.2023	ETS/DI-70	62.9	30.7	11.6	27.6	0.44
23	25.12.2023	ETS/DI-71	61.7	28.1	10.6	22.4	0.55
24	29.12.2023	ETS/DI-72	64.0	31.2	13.2	24.9	0.80
		Minimum	61.1	28.0	8.3	21.7	0.35
		Maximum	76.2	42.5	13.9	27.6	0.80
		Average	67.6	33.6	11.3	24.1	0.52
		98 PERCENTILE	75.9	42.2	13.8	27.0	0.79

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

****End of Test Report****

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO :ETS/1456-4/10/2023

DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023
Analysis End Date : 30.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-4 GOVERNMENT PRIMARY SCHOOL MANJHARIYA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-73	71.0	35.2	11.0	26.3	0.37
2	04.10.2023	ETS/DI-74	68.1	40.1	13.9	28.1	0.41
3	09.10.2023	ETS/DI-75	67.3	39.3	11.6	23.8	0.37
4	12.10.2023	ETS/DI-76	67.8	42.1	10.4	24.8	0.42
5	15.10.2023	ETS/DI-77	69.7	36.8	14.8	28.1	0.36
6	18.10.2023	ETS/DI-78	72.5	32.1	12.8	27.3	0.48
7	22.10.2023	ETS/DI-79	76.8	46.1	10.8	24.9	0.57
8	25.10.2023	ETS/DI-80	73.8	44.2	15.0	28.0	0.53
9	01.11.2023	ETS/DI-81	70.3	46.7	13.6	27.8	0.44
10	04.11.2023	ETS/DI-82	77.1	34.6	12.7	27.3	0.58
11	08.11.2023	ETS/DI-83	82.2	40.2	13.8	25.5	0.62
12	11.11.2023	ETS/DI-84	78.8	36.2	11.4	26.0	0.64
13	15.11.2023	ETS/DI-85	83.0	38.7	12.2	25.3	0.44
14	18.11.2023	ETS/DI-86	71.3	36.8	13.1	27.6	0.42
15	23.11.2023	ETS/DI-87	71.8	32.5	14.4	24.9	0.51
16	27.11.2023	ETS/DI-88	77.6	34.0	15.2	25.3	0.48
17	01.12.2023	ETS/DI-89	83.9	30.9	10.6	24.4	0.76
18	04.12.2023	ETS/DI-90	81.8	32.7	11.6	27.1	0.77
19	08.12.2023	ETS/DI-91	79.7	36.1	11.6	25.8	0.68
20	11.12.2023	ETS/DI-92	74.4	40.4	9.2	27.2	0.56
21	15.12.2023	ETS/DI-93	77.4	35.7	10.4	29.0	0.81
22	18.12.2023	ETS/DI-94	69.2	31.7	12.7	30.4	0.46
23	22.12.2023	ETS/DI-95	67.8	30.9	11.7	24.6	0.57
24	25.12.2023	ETS/DI-96	70.4	34.4	14.5	30.7	0.84
		Minimum	67.3	30.9	9.2	23.8	0.36
		Maximum	83.9	46.7	15.2	30.7	0.84
		Average	74.3	37.0	12.5	26.7	0.55
		98 PERCENTILE	83.5	46.4	15.1	30.6	0.83

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

****End of Test Report****

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO :ETS/1456-5/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Analysis Start Date	:	05.10.2023
Analysis End Date	:	28.12.2023
Sampling Done By	:	ETS STAFF
Sampling Location	:	AAQ-5 EIDGAH MASJID – MOSQUERAIBARI MAHUAWA
Sampling Method	:	ETS/STP/AIR-01
Sampling Machine Placed At Height	:	1.5 MTR. (FROM GROUND)
Weather Condition	:	CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-97	66.2	32.8	10.2	24.5	0.52
2	07.10.2023	ETS/DI-98	63.5	37.3	13.0	26.2	0.74
3	10.10.2023	ETS/DI-99	62.6	36.6	10.9	22.2	0.65
4	14.10.2023	ETS/DI-100	63.2	39.2	9.7	23.0	0.74
5	17.10.2023	ETS/DI-101	64.9	34.2	13.7	26.2	0.59
6	21.10.2023	ETS/DI-102	67.6	29.9	12.0	25.6	0.55
7	24.10.2023	ETS/DI-103	71.6	43.0	10.1	23.3	0.56
8	28.10.2023	ETS/DI-104	68.8	41.2	14.0	26.0	0.44
9	03.11.2023	ETS/DI-105	65.5	43.6	12.7	25.9	0.65
10	06.11.2023	ETS/DI-106	71.9	32.3	11.9	25.6	0.61
11	10.11.2023	ETS/DI-107	76.6	37.4	12.8	23.8	0.48
12	13.11.2023	ETS/DI-108	73.4	33.7	10.6	24.2	0.56
13	17.11.2023	ETS/DI-109	77.4	36.1	11.4	23.5	0.39
14	20.11.2023	ETS/DI-110	66.5	34.2	12.2	25.7	0.58
15	24.11.2023	ETS/DI-111	66.8	30.4	13.3	23.2	0.83
16	27.11.2023	ETS/DI-112	72.4	31.8	14.3	23.6	0.57
17	03.12.2023	ETS/DI-113	78.2	28.7	9.8	22.8	0.60
18	06.12.2023	ETS/DI-114	76.2	30.1	10.8	25.2	0.61
19	10.12.2023	ETS/DI-115	74.4	37.3	10.9	24.0	0.57
20	13.12.2023	ETS/DI-116	69.4	34.6	8.5	25.3	0.40
21	16.12.2023	ETS/DI-117	72.1	32.7	9.7	27.1	0.60
22	20.12.2023	ETS/DI-118	64.4	30.8	11.9	28.3	0.57
23	23.12.2023	ETS/DI-119	63.2	28.8	10.9	22.9	0.64
24	27.12.2023	ETS/DI-120	65.6	32.0	13.6	25.4	0.54
		Minimum	62.6	28.7	8.5	22.2	0.39
		Maximum	78.2	43.6	14.3	28.3	0.83
		Average	69.3	34.5	11.6	24.7	0.58
		98 PERCENTILE	77.9	43.3	14.2	27.8	0.79

CHECKED BY:
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRA
Quality Manage

End of Test Report

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TEST REPORT

TEST REPORT NO :ETS/1456-6/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 10.10.2023
Analysis End Date : 02.01.2024
Sampling Done By : ETS STAFF
Sampling Location : AAQ-6 BANSGAON PARSAUNI
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	05.10.2023	ETS/DI-121	73.4	36.4	11.4	27.2	0.29
2	09.10.2023	ETS/DI-122	70.4	41.4	14.4	29.0	0.33
3	12.10.2023	ETS/DI-123	69.6	40.7	12.1	24.7	0.30
4	16.10.2023	ETS/DI-124	70.2	43.6	10.8	25.7	0.34
5	19.10.2023	ETS/DI-125	72.0	38.0	15.2	29.0	0.29
6	23.10.2023	ETS/DI-126	75.0	33.2	13.3	28.3	0.39
7	26.10.2023	ETS/DI-127	79.4	47.7	11.1	25.8	0.45
8	30.10.2023	ETS/DI-128	76.2	45.7	15.5	28.9	0.43
9	05.11.2023	ETS/DI-129	72.7	48.3	14.0	28.8	0.35
10	08.11.2023	ETS/DI-130	79.7	35.8	13.2	28.3	0.47
11	12.11.2023	ETS/DI-131	84.9	41.5	14.3	26.4	0.49
12	15.11.2023	ETS/DI-132	81.6	37.4	11.7	26.9	0.51
13	19.11.2023	ETS/DI-133	85.9	40.1	12.7	26.1	0.35
14	21.11.2023	ETS/DI-134	73.7	38.0	13.6	28.4	0.34
15	25.11.2023	ETS/DI-135	74.2	33.6	14.9	25.8	0.41
16	29.11.2023	ETS/DI-136	80.2	35.2	15.9	26.3	0.39
17	05.12.2023	ETS/DI-137	86.8	31.8	11.0	25.3	0.60
18	08.12.2023	ETS/DI-138	84.6	35.7	12.0	28.0	0.62
19	12.12.2023	ETS/DI-139	82.5	33.6	12.1	26.6	0.55
20	15.12.2023	ETS/DI-140	77.0	30.7	9.4	28.1	0.45
21	18.12.2023	ETS/DI-141	80.0	35.1	10.8	30.0	0.64
22	22.12.2023	ETS/DI-142	71.5	32.8	13.2	31.3	0.37
23	25.12.2023	ETS/DI-143	70.2	31.9	12.2	25.4	0.46
24	29.12.2023	ETS/DI-144	72.8	35.5	15.0	34.8	0.67
		Minimum	69.6	30.7	9.4	24.7	0.29
		Maximum	86.8	48.3	15.9	34.8	0.67
		Average	76.9	37.6	12.9	27.7	0.44
		98 PERCENTILE	86.4	48.0	15.7	33.2	0.66

End of Test Report

CHECKED BY
* PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Quality Manage

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO :ETS/1456-7/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-7 DAINMARWA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-145	60.6	30.1	9.4	22.5	0.42
2	04.10.2023	ETS/DI-146	58.1	34.2	12.0	23.9	0.59
3	09.10.2023	ETS/DI-147	57.4	33.6	10.0	20.3	0.52
4	12.10.2023	ETS/DI-148	57.8	35.9	8.9	21.1	0.59
5	15.10.2023	ETS/DI-149	59.4	31.3	12.6	24.0	0.47
6	18.10.2023	ETS/DI-150	61.9	27.4	10.9	23.3	0.44
7	22.10.2023	ETS/DI-151	65.5	39.3	9.3	21.3	0.45
8	25.10.2023	ETS/DI-152	62.9	37.8	12.8	23.8	0.35
9	01.11.2023	ETS/DI-153	60.0	39.8	11.5	23.7	0.52
10	04.11.2023	ETS/DI-154	65.7	29.5	10.8	23.3	0.48
11	08.11.2023	ETS/DI-155	70.1	34.3	11.8	21.8	0.39
12	11.11.2023	ETS/DI-156	67.3	30.9	9.7	22.2	0.45
13	15.11.2023	ETS/DI-157	70.8	33.1	10.4	21.5	0.32
14	18.11.2023	ETS/DI-158	60.8	31.3	11.2	23.5	0.46
15	23.11.2023	ETS/DI-159	61.3	27.8	12.3	21.2	0.66
16	27.11.2023	ETS/DI-160	66.1	29.0	13.1	21.6	0.46
17	01.12.2023	ETS/DI-161	71.6	26.3	9.0	20.9	0.48
18	04.12.2023	ETS/DI-162	69.8	26.5	9.9	23.1	0.49
19	08.12.2023	ETS/DI-163	68.0	26.7	10.0	21.9	0.46
20	11.12.2023	ETS/DI-164	63.5	27.1	7.8	23.2	0.32
21	15.12.2023	ETS/DI-165	66.0	26.7	8.9	24.9	0.48
22	18.12.2023	ETS/DI-166	59.0	27.0	10.8	25.9	0.46
23	22.12.2023	ETS/DI-167	57.8	26.3	10.1	21.0	0.51
24	25.12.2023	ETS/DI-168	60.1	29.3	12.4	24.8	0.43
		Minimum	57.4	26.3	7.8	20.3	0.32
		Maximum	71.6	39.8	13.1	25.9	0.66
		Average	63.4	30.9	10.6	22.7	0.47
		98 PERCENTILE	71.2	39.6	13.0	25.4	0.63

End of Test Report

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
MD HUMRA
Quality Manager

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TEST REPORT

TEST REPORT NO :ETS/1456-8/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023
Analysis End Date : 30.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-8 MURERA, BELWA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-169	58.8	29.1	9.1	21.7	0.51
2	07.10.2023	ETS/DI-170	56.3	33.2	11.6	23.2	0.28
3	10.10.2023	ETS/DI-171	55.7	32.6	9.7	19.7	0.80
4	14.10.2023	ETS/DI-172	56.1	34.8	8.6	20.5	0.51
5	17.10.2023	ETS/DI-173	57.5	30.3	12.2	23.2	0.46
6	21.10.2023	ETS/DI-174	60.0	26.5	10.6	22.6	0.76
7	24.10.2023	ETS/DI-175	63.5	38.1	8.9	20.7	0.79
8	28.10.2023	ETS/DI-176	61.0	36.5	12.4	23.1	0.59
9	03.11.2023	ETS/DI-177	58.2	38.6	11.2	23.0	0.87
10	06.11.2023	ETS/DI-178	63.7	28.7	10.5	22.6	0.89
11	10.11.2023	ETS/DI-179	67.9	33.2	11.3	21.1	0.71
12	13.11.2023	ETS/DI-180	65.2	29.9	9.5	21.5	0.69
13	17.11.2023	ETS/DI-181	68.7	32.0	10.1	20.9	0.36
14	20.11.2023	ETS/DI-182	58.9	30.3	10.8	22.8	0.46
15	24.11.2023	ETS/DI-183	59.3	26.9	11.9	20.6	0.75
16	27.11.2023	ETS/DI-184	64.2	28.1	12.7	21.0	0.36
17	03.12.2023	ETS/DI-185	69.4	25.5	8.8	20.3	0.74
18	06.12.2023	ETS/DI-186	67.6	25.7	9.6	22.4	0.75
19	10.12.2023	ETS/DI-187	65.9	25.8	9.7	21.3	0.80
20	13.12.2023	ETS/DI-188	61.5	26.3	7.6	22.5	0.42
21	16.12.2023	ETS/DI-189	63.9	25.9	8.6	24.0	0.80
22	20.12.2023	ETS/DI-190	57.2	26.1	10.5	25.1	0.87
23	23.12.2023	ETS/DI-191	56.1	25.5	9.8	20.4	0.65
24	27.12.2023	ETS/DI-192	58.2	28.4	12.1	23.4	0.47
		Minimum	55.7	25.5	7.6	19.7	0.28
		Maximum	69.4	38.6	12.7	25.1	0.89
		Average	61.5	29.9	10.3	22.0	0.64
		98 PERCENTILE	69.1	38.4	12.6	24.6	0.88

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

****End of Test Report****

AUTHORIZED SIGNATORY
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1456-9/10/2023 DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 10.10.2023
Analysis End Date : 02.01.2024
Sampling Done By : ETS STAFF
Sampling Location : AAQ-9 MAHUI
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	05.10.2023	ETS/DI-193	57.0	28.2	8.8	21.1	0.41
2	09.10.2023	ETS/DI-194	54.6	32.1	11.2	22.5	0.53
3	12.10.2023	ETS/DI-195	54.0	31.5	9.3	19.1	0.41
4	16.10.2023	ETS/DI-196	54.4	33.8	8.4	19.8	0.46
5	19.10.2023	ETS/DI-197	55.9	29.5	11.9	22.6	0.37
6	23.10.2023	ETS/DI-198	58.2	25.7	10.3	21.9	0.38
7	26.10.2023	ETS/DI-199	61.6	37.0	8.7	20.1	0.44
8	30.10.2023	ETS/DI-200	59.1	35.5	12.1	22.4	0.61
9	05.11.2023	ETS/DI-201	56.4	37.5	10.9	22.4	0.69
10	08.11.2023	ETS/DI-202	61.8	27.8	10.2	21.9	0.75
11	12.11.2023	ETS/DI-203	65.9	32.2	11.0	20.5	0.51
12	15.11.2023	ETS/DI-204	63.2	29.0	9.1	20.9	0.79
13	19.11.2023	ETS/DI-205	66.6	31.1	9.9	20.3	0.74
14	21.11.2023	ETS/DI-206	57.1	29.5	10.5	22.1	0.43
15	25.11.2023	ETS/DI-207	57.5	26.0	11.6	20.0	0.61
16	29.11.2023	ETS/DI-208	62.3	27.3	12.3	20.4	0.74
17	05.12.2023	ETS/DI-209	67.3	24.7	8.5	19.6	0.47
18	08.12.2023	ETS/DI-210	65.6	24.9	9.2	21.7	0.75
19	12.12.2023	ETS/DI-211	63.9	25.1	9.3	20.7	0.71
20	15.12.2023	ETS/DI-212	59.7	25.5	7.4	21.8	0.57
21	18.12.2023	ETS/DI-213	62.1	25.2	8.4	23.3	0.71
22	22.12.2023	ETS/DI-214	55.4	25.4	10.2	24.4	0.77
23	25.12.2023	ETS/DI-215	54.4	24.8	9.5	19.7	0.52
24	29.12.2023	ETS/DI-216	56.5	27.5	11.7	27.4	0.81
		Minimum	54.0	24.7	7.4	19.1	0.37
		Maximum	67.3	37.5	12.3	27.4	0.81
		Average	59.6	29.0	10.0	21.5	0.59
		98 PERCENTILE	67.0	37.2	12.2	26.0	0.80

CHECKED BY
PURNIMA SINGH

FOR ENVIRO-TECH SERVICES

****End of Test Report****

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO :ETS/1456-10/10/2023 DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023
Analysis End Date : 30.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-10 BISHUNPURWA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-217	61.9	30.7	9.6	22.9	0.88
2	07.10.2023	ETS/DI-218	59.3	34.9	12.2	24.4	0.73
3	10.10.2023	ETS/DI-219	58.5	34.2	10.2	20.7	0.70
4	14.10.2023	ETS/DI-220	59.1	36.7	9.1	21.6	0.73
5	17.10.2023	ETS/DI-221	60.6	32.0	12.8	24.5	0.35
6	21.10.2023	ETS/DI-222	63.2	27.9	11.2	23.8	0.52
7	24.10.2023	ETS/DI-223	66.9	40.2	9.4	21.8	0.35
8	28.10.2023	ETS/DI-224	64.2	38.5	13.1	24.3	0.45
9	03.11.2023	ETS/DI-225	61.3	40.7	11.9	24.2	0.63
10	06.11.2023	ETS/DI-226	67.2	30.1	11.1	23.8	0.73
11	10.11.2023	ETS/DI-227	71.5	35.0	12.0	22.2	0.88
12	13.11.2023	ETS/DI-228	68.7	31.4	9.9	22.7	0.61
13	17.11.2023	ETS/DI-229	72.3	33.7	10.6	21.9	0.73
14	20.11.2023	ETS/DI-230	62.0	32.0	11.4	24.0	0.32
15	24.11.2023	ETS/DI-231	62.5	28.3	12.5	21.7	0.45
16	27.11.2023	ETS/DI-232	67.5	29.6	13.3	22.0	0.63
17	03.12.2023	ETS/DI-233	73.1	26.8	9.2	21.3	0.35
18	06.12.2023	ETS/DI-234	71.3	30.2	10.1	23.6	0.81
19	10.12.2023	ETS/DI-235	69.4	34.5	10.2	22.4	0.53
20	13.12.2023	ETS/DI-236	64.8	38.1	8.0	23.7	0.42
21	16.12.2023	ETS/DI-237	67.4	33.7	9.1	25.4	0.73
22	20.12.2023	ETS/DI-238	60.2	27.6	11.1	26.4	0.63
23	23.12.2023	ETS/DI-239	59.1	26.9	10.3	21.4	0.88
24	27.12.2023	ETS/DI-240	61.3	29.9	12.6	18.4	0.50
		Minimum	58.5	26.8	8.0	18.4	0.32
		Maximum	73.1	40.7	13.3	26.4	0.88
		Average	64.7	32.7	10.9	22.9	0.61
		98 PERCENTILE	72.7	40.5	13.2	21.3	0.88

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

****End of Test Report****

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO :ETS/1456-11/10/2023 DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023
Analysis End Date : 30.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-11 BARGAJWA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-217	66.9	33.1	10.4	24.7	0.29
2	04.10.2023	ETS/DI-218	64.0	37.7	13.1	26.4	0.26
3	09.10.2023	ETS/DI-219	63.2	36.9	11.0	22.4	0.37
4	12.10.2023	ETS/DI-220	63.8	39.6	9.8	23.3	0.47
5	15.10.2023	ETS/DI-221	65.5	34.6	13.9	26.5	0.34
6	18.10.2023	ETS/DI-222	68.2	30.2	12.1	25.8	0.54
7	22.10.2023	ETS/DI-223	72.2	43.4	10.2	23.5	0.67
8	25.10.2023	ETS/DI-224	69.4	41.6	14.2	26.3	0.57
9	01.11.2023	ETS/DI-225	66.2	43.9	12.8	26.2	0.62
10	04.11.2023	ETS/DI-226	72.5	32.5	12.0	25.8	0.61
11	08.11.2023	ETS/DI-227	77.3	37.8	12.9	24.0	0.70
12	11.11.2023	ETS/DI-228	74.2	34.0	10.7	24.5	0.56
13	15.11.2023	ETS/DI-229	78.1	36.4	11.5	23.7	0.54
14	18.11.2023	ETS/DI-230	67.0	34.6	12.3	26.0	0.52
15	23.11.2023	ETS/DI-231	67.5	30.6	13.5	23.4	0.65
16	27.11.2023	ETS/DI-232	72.9	32.0	14.4	23.8	0.61
17	01.12.2023	ETS/DI-233	78.9	28.9	10.0	23.0	0.60
18	04.12.2023	ETS/DI-234	77.0	35.2	10.9	25.4	0.56
19	08.12.2023	ETS/DI-235	75.0	38.1	11.0	24.2	0.64
20	11.12.2023	ETS/DI-236	80.5	40.1	8.6	25.5	0.27
21	15.12.2023	ETS/DI-237	72.7	32.7	9.8	27.4	0.54
22	18.12.2023	ETS/DI-238	65.0	37.6	12.0	28.5	0.64
23	22.12.2023	ETS/DI-239	63.8	29.0	11.1	23.1	0.42
24	25.12.2023	ETS/DI-240	66.2	32.3	13.6	19.9	0.52
		Minimum	63.2	28.9	8.6	19.9	0.32
		Maximum	80.5	43.9	14.4	28.5	0.66
		Average	70.3	35.5	11.7	24.7	0.47
		98 PERCENTILE	79.8	43.7	14.3	28.0	0.63

For ENVIRO-TECH SERVICES

PURNIMA SINGH
CHECKED BY

****End of Test Report****

AUTHORIZED SIGNATORY
Quality Manager

Note:- Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ENVIRO-TECH SERVICES

An Analytical Laboratory

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Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/1456-12/12/2023 DATE OF REPORT:10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	10.12.2023
Monitoring Start Date	:	10.12.2023
Monitoring End Date	:	11.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-1 PROJECT SITE-1
Category Of Area	:	RESIDENTIALAREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	50.4	55
2.	Noise Level Night Time	Leq :dB (A)	41.2	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MD HUMRA
Quality Manage

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TEST REPORT

TEST REPORT NO : ETS/1456-13/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	12.12.2023
Monitoring Start Date	:	12.12.2023
Monitoring End Date	:	13.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-2 PROJECT SITE-2
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	52.7	55
2.	Noise Level Night Time	Leq :dB (A)	40.1	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-14/12/2023 DATE OF REPORT:10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	14.12.2023
Monitoring Start Date	:	14.12.2023
Monitoring End Date	:	15.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-3 RAIBARI MAHAUWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.1	50
2.	Noise Level Night Time	Leq :dB (A)	35.7	40

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-14/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	15.12.2023
Monitoring Start Date	:	15.12.2023
Monitoring End Date	:	16.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-4 GOVERNMENT PRIMARY SCHOOL MANJHARIYA
Category Of Area	:	SILENCE ZONE
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	47.2	50
2.	Noise Level Night Time	Leq :dB (A)	38.1	40

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
ABHISHEK KUMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-15/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	18.12.2023
Monitoring Start Date	:	18.12.2023
Monitoring End Date	:	19.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-5 EIDGAH MASJID-MOSQUE RAIBARI MAHUAWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	53.7	55
2.	Noise Level Night Time	Leq :dB (A)	42.6	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

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AUTHORIZED SIGNATORY
MD HUMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-16/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-6 BANSGAON PARSAUNI
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.6	55
2.	Noise Level Night Time	Leq :dB (A)	36.5	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MD HOMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-17/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	20.12.2023
Monitoring Start Date	:	20.12.2023
Monitoring End Date	:	21.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-7 DAINMARWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	50.4	55
2.	Noise Level Night Time	Leq :dB (A)	37.8	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
ABHINAV RAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-18/12/2023 DATE OF REPORT:10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-8 MURERA, BELWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	46.7	55
2.	Noise Level Night Time	Leq :dB (A)	35.1	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MD HUMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-19/12/2023 DATE OF REPORT : 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-9MAHUI
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
3.	Noise Level Day Time	Leq :dB (A)	51.7	55
4.	Noise Level Night Time	Leq :dB (A)	43.5	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HUMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-20/12/2023 DATE OF REPORT : 10.01.2024

NOISE MONITORING REPORT

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Date of Monitoring	:	20.12.2023
Monitoring Start Date	:	20.12.2023
Monitoring End Date	:	21.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-10BISHUNPURWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
3.	Noise Level Day Time	Leq :dB (A)	45.6	55
4.	Noise Level Night Time	Leq :dB (A)	34.2	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD NUMRAJ
Quality Manager

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An Analytical Laboratory

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Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/1456-21/12/2023 DATE OF REPORT : 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-11BARGAJWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
3.	Noise Level Day Time	Leq :dB (A)	49.3	55
4.	Noise Level Night Time	Leq :dB (A)	32.5	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1456-22/05/2023 DATE OF REPORT:10-01-2024

SOILSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1456-22
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-1 PROJECT SITE-1
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	74.8	IS:2720 (Pt-4)
3.	Silt	%	17.0	IS:2720 (Pt-4)
4.	Clay	%	8.2	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.76	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)	--	1.30	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	324.6	IS:14767
8.	Water Holding Capacity(WHC)	%	37.1	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	130.7	APHA-3125B
10.	Calcium (Ca)	mg/kg	1046.2	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	474.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.27	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	182.5	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	52.1	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	290.5	APHA-3125B
16.	Organic Matter	%	0.86	IS: 2720 (P-22)
17.	Organic Carbon	%	1.25	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.80	IS:3025(P-24)
19.	Porosity	%	25.10	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.56	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD RUMKA
Quality Manage

Note:- Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO: ETS/1456-23/05/2023 DATE OF REPORT:10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1456-23
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-2 PROJECT SITE 2
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	72.2	IS:2720 (Pt-4)
3.	Silt	%	20.4	IS:2720 (Pt-4)
4.	Clay	%	7.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.56	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)	--	1.43	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	310.1	IS:14767
8.	Water Holding Capacity(WHC)	%	38.30	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	120.7	APHA-3125B
10.	Calcium (Ca)	mg/kg	1020.3	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	495.4	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.37	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	218.5	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	46.2	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	243.7	APHA-3125B
16.	Organic Matter	%	1.30	IS: 2720 (P-22)
17.	Organic Carbon	%	1.56	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.10	IS:3025(P-24)
19.	Porosity	%	25.06	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.60	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1456-24/05/2023 DATE OF REPORT:10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1456-24
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-3 RAIBARI MAHAUWA
Sampling Quantity : 2 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	65.7	IS:2720 (Pt-4)
3.	Silt	%	22.2	IS:2720 (Pt-4)
4.	Clay	%	1.1	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.52	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)	--	1.36	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	326.5	IS:14767
8.	Water Holding Capacity(WHC)	%	42.5	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	134.9	APHA-3125B
10.	Calcium (Ca)	mg/kg	1216.7	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	545.9	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.32	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	167.5	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	43.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	262.0	APHA-3125B
16.	Organic Matter	%	1.12	IS : 2720 (P-22)
17.	Organic Carbon	%	1.38	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.12	IS:3025(P-24)
19.	Porosity	%	16.32	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.84	ASTM 9214

FOR ENVIRO-TECH SERVICES

****End of Test Report****

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
MD ELAHI MIRA
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1456-25/05/2023 DATE OF REPORT:10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1456-25
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-4 GOVERNMENT PRIMARY SCHOOL MANJHARIYA
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	60.6	IS:2720 (Pt-4)
3.	Silt	%	26.4	IS:2720 (Pt-4)
4.	Clay	%	13.0	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	8.12	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)	--	1.65	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	342.2	IS:14767
8.	Water Holding Capacity(WHC)	%	37.9	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	175.5	APHA-3125B
10.	Calcium (Ca)	mg/kg	1196.9	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	491.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.28	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	186.9	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	54.9	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	316.23	APHA-3125B
16.	Organic Matter	%	0.96	IS : 2720 (P-22)
17.	Organic Carbon	%	1.65	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.45	IS:3025(P-24)
19.	Porosity	%	24.7	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.84	ASTM 9214

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1456-26/05/2023 DATE OF REPORT:10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1456-26
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-5EIDGAH MASJID – MOSQUERAIBARI MAHUAWA
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	52.7	IS:2720 (Pt-4)
3.	Silt	%	27.3	IS:2720 (Pt-4)
4.	Clay	%	20.2	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.88	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)	--	1.84	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	348.81	IS:14767
8.	Water Holding Capacity(WHC)	%	37.0	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	147.2	APHA-3125B
10.	Calcium (Ca)	mg/kg	1084.3	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	535.40	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.56	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	179.45	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	60.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	354.8	APHA-3125B
16.	Organic Matter	%	1.22	IS : 2720 (P-22)
17.	Organic Carbon	%	1.46	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.42	IS:3025(P-24)
19.	Porosity	%	21.42	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.92	ASTM 9214

For ENVIRO-TECH SERVICES

****End of Test Report****

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO: ETS/1456-27/05/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1456-27
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-6BANSGAON PARSAUNI
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	55.7	IS:2720 (Pt-4)
3.	Silt	%	27.2	IS:2720 (Pt-4)
4.	Clay	%	17.1	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.86	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)	--	1.45	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	339.68	IS:14767
8.	Water Holding Capacity(WHC)	%	33.48	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	154.86	APHA-3125B
10.	Calcium (Ca)	mg/kg	1085.22	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	546.12	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.47	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	179.5	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	43.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	254.00	APHA-3125B
16.	Organic Matter	%	1.2	IS: 2720 (P-22)
17.	Organic Carbon	%	1.81	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.12	IS:3025(P-24)
19.	Porosity	%	27.3	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.05	ASTM 6214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1456-28/05/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1456-28
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-7DAINMARWA
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
22.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
23.	Sand	%	64.2	IS:2720 (Pt-4)
24.	Silt	%	25.6	IS:2720 (Pt-4)
25.	Clay	%	10.2	IS:2720 (Pt-4)
26.	pH (1:2 Suspension)	..	7.52	IS:2720 (Pt-26)
27.	Sodium Absorption Ratio (SAR)	--	1.37	ETS/STP/SOIL-16
28.	Electrical Conductivity (1:2)	µmho/cm	324.56	IS:14767
29.	Water Holding Capacity(WHC)	%	38.54	IS 2720 (Part-2)
30.	Sodium (Na)	mg/kg	139.55	APHA-3125B
31.	Calcium (Ca)	mg/kg	1218.74	IS 2720 (Part-23)
32.	Magnesium (Mg)	mg/kg	547.89	ETS/STP/SOIL-08
33.	Bulk Density	g/cm^3	1.30	IS 2386 (Part-4)
34.	Total Nitrogen (N)	mg/kg	177.45	APHA,Pt 4500:(N)
35.	Phosphorus (PO4)	mg/kg	41.37	ETS/STP/SOIL-19
36.	Potassium (K)	mg/kg	260.09	APHA-3125B
37.	Organic Matter	%	1.05	IS : 2720 (P-22)
38.	Organic Carbon	%	1.37	BS 1377 -3)
39.	Sulphate as (SO_4)	mg/kg	2.10	IS:3025(P-24)
40.	Porosity	%	19.32	IS 13030
41.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
42.	Fluoride	mg/kg	0.84	ASTM 9214

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
MD VIKRAM RAJ
Quality Manager

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ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

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(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO: ETS/1456-29/05/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1456-29
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-8 MURERA, BELWA
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
22.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
23.	Sand	%	60.2	IS:2720 (Pt-4)
24.	Silt	%	26.8	IS:2720 (Pt-4)
25.	Clay	%	13.0	IS:2720 (Pt-4)
26.	pH (1:2 Suspension)	..	8.09	IS:2720 (Pt-26)
27.	Sodium Absorption Ratio (SAR)	--	1.67	ETS/STP/SOIL-16
28.	Electrical Conductivity (1:2)	µmho/cm	342.7	IS:14767
29.	Water Holding Capacity(WHC)	%	37.4	IS 2720 (Part-2)
30.	Sodium (Na)	mg/kg	175.3	APHA-3125B
31.	Calcium (Ca)	mg/kg	1192.4	IS 2720 (Part-23)
32.	Magnesium (Mg)	mg/kg	491.9	ETS/STP/SOIL-08
33.	Bulk Density	g/cm^3	1.22	IS 2386 (Part-4)
34.	Total Nitrogen (N)	mg/kg	182.4	APHA,Pt 4500:(N)
35.	Phosphorus (PO4)	mg/kg	54.3	ETS/STP/SOIL-19
36.	Potassium (K)	mg/kg	315.5	APHA-3125B
37.	Organic Matter	%	0.95	IS: 2720 (P-22)
38.	Organic Carbon	%	1.6	BS 1377 -3)
39.	Sulphate as (SO_4)	mg/kg	1.47	IS:3025(P-24)
40.	Porosity	%	24.4	IS 13030
41.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
42.	Fluoride	mg/kg	0.74	ASTM 9214

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1456-30/05/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1456-30
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-9 MAHUI
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
43.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
44.	Sand	%	52.5	IS:2720 (Pt-4)
45.	Silt	%	27.3	IS:2720 (Pt-4)
46.	Clay	%	20.2	IS:2720 (Pt-4)
47.	pH (1:2 Suspension)	..	7.91	IS:2720 (Pt-26)
48.	Sodium Absorption Ratio (SAR)	--	1.85	ETS/STP/SOIL-16
49.	Electrical Conductivity (1:2)	µmho/cm	348.81	IS:14767
50.	Water Holding Capacity(WHC)	%	37.80	IS 2720 (Part-2)
51.	Sodium (Na)	mg/kg	147.42	APHA-3125B
52.	Calcium (Ca)	mg/kg	1084.23	IS 2720 (Part-23)
53.	Magnesium (Mg)	mg/kg	535.40	ETS/STP/SOIL-08
54.	Bulk Density	g/cm^3	1.54	IS 2386 (Part-4)
55.	Total Nitrogen (N)	mg/kg	179.55	APHA,Pt 4500:(N)
56.	Phosphorus (PO4)	mg/kg	60.27	ETS/STP/SOIL-19
57.	Potassium (K)	mg/kg	354.48	APHA-3125B
58.	Organic Matter	%	1.26	IS: 2720 (P-22)
59.	Organic Carbon	%	1.47	BS 1377 -3)
60.	Sulphate as (SO_4)	mg/kg	2.42	IS:3025(P-24)
61.	Porosity	%	21.42	IS 13030
62.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
63.	Fluoride	mg/kg	0.95	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MS PURNIMA
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1456-31/05/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1456-31
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-10BISHUNPURWA
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
43.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
44.	Sand	%	55.1	IS:2720 (Pt-4)
45.	Silt	%	27.4	IS:2720 (Pt-4)
46.	Clay	%	17.5	IS:2720 (Pt-4)
47.	pH (1:2 Suspension)	..	7.84	IS:2720 (Pt-26)
48.	Sodium Absorption Ratio (SAR)	--	1.47	ETS/STP/SOIL-16
49.	Electrical Conductivity (1:2)	µmho/cm	339.68	IS:14767
50.	Water Holding Capacity(WHC)	%	33.50	IS 2720 (Part-2)
51.	Sodium (Na)	mg/kg	154.88	APHA-3125B
52.	Calcium (Ca)	mg/kg	1085.28	IS 2720 (Part-23)
53.	Magnesium (Mg)	mg/kg	546.11	ETS/STP/SOIL-08
54.	Bulk Density	g/cm^3	1.45	IS 2386 (Part-4)
55.	Total Nitrogen (N)	mg/kg	179.45	APHA,Pt 4500:(N)
56.	Phosphorus (PO4)	mg/kg	43.37	ETS/STP/SOIL-19
57.	Potassium (K)	mg/kg	254.00	APHA-3125B
58.	Organic Matter	%	1.26	IS : 2720 (P-22)
59.	Organic Carbon	%	1.79	BS 1377 -3)
60.	Sulphate as (SO_4)	mg/kg	1.05	IS:3025(P-24)
61.	Porosity	%	27.83	IS 13030
62.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
63.	Fluoride	mg/kg	1.05	ASTM 9214

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1456-32/05/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1456-32
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-11 BARGAJWA
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
64.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
65.	Sand	%	67.4	IS:2720 (Pt-4)
66.	Silt	%	20.1	IS:2720 (Pt-4)
67.	Clay	%	12.5	IS:2720 (Pt-4)
68.	pH (1:2 Suspension)	..	7.80	IS:2720 (Pt-26)
69.	Sodium Absorption Ratio (SAR)	--	1.56	ETS/STP/SOIL-16
70.	Electrical Conductivity (1:2)	µmho/cm	375.1	IS:14767
71.	Water Holding Capacity(WHC)	%	35.3	IS 2720 (Part-2)
72.	Sodium (Na)	mg/kg	152.4	APHA-3125B
73.	Calcium (Ca)	mg/kg	1180.3	IS 2720 (Part-23)
74.	Magnesium (Mg)	mg/kg	553.2	ETS/STP/SOIL-08
75.	Bulk Density	g/cm^3	1.50	IS 2386 (Part-4)
76.	Total Nitrogen (N)	mg/kg	219.7	APHA,Pt 4500:(N)
77.	Phosphorus (PO4)	mg/kg	56.2	ETS/STP/SOIL-19
78.	Potassium (K)	mg/kg	274.0	APHA-3125B
79.	Organic Matter	%	1.34	IS: 2720 (P-22)
80.	Organic Carbon	%	1.81	BS 1377 -3)
81.	Sulphate as (SO_4)	mg/kg	1.24	IS:3025(P-24)
82.	Porosity	%	28.1	IS 13030
83.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
84.	Fluoride	mg/kg	1.10	ASTM 9214

For ENVIRO-TECH SERVICES

****End of Test Report****

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
M. HUMRA
Lab. Manager

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TEST REPORT

TEST REPORT NO :ETS/1456-38/12/2023 DATE OF REPORT :10-01-2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 10-12-2023
Analysis Start Date : 13-12-2023
Analysis End Date : 16-12-2023
Sample ID No : ETS/SL-1456-38
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-1 RAIBARI MAHAUWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	8.18	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	482.2	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	150.8	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	195.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	82.1	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	48.3	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	37.6	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.65	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.28	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	22.15	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.29	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	730.8	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES
AUTHORIZED SIGNATORY
MD HUMRA
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1456-39/12/2023 DATE OF REPORT:10-01-2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 10-12-2023
Analysis Start Date : 13-12-2023
Analysis End Date : 16-12-2023
Sample ID No : ETS/SL-1456-39
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-2 GOVERNMENT PRIMARY SCHOOL MANJHARIYA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.81	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	496.9	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	156.6	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	203.0	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	84.6	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	49.7	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	13.2	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.72	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.28	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	22.78	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.29	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	753.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
S.P. TIWARAJ
Quality Manager

Note:-

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO :ETS/1456-40/12/2023 DATE OF REPORT :10-01-2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 15-12-2023
Analysis Start Date : 18-12-2023
Analysis End Date : 21-12-2023
Sample ID No : ETS/SL-1456-40
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-3 EIDGAH MASJID -MOSQUE RAIBARI MAHUAWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.47	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	587.4	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	162.8	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	233.5	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	133.7	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	93.5	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	29.8	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.25	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.40	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.15	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	19.03	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.35	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	790.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MD HUMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-41/12/2023 DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1456-41
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-4 BANSGAON PARSAUNI
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.71	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	284.4	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	118.4	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	154.6	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	98.2	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	53.5	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	29.1	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.90	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.07	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.19	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	16.22	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.23	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	451.9	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

MD HUMRA
Quality Manager
AUTHORIZED SIGNATORY

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/1456-42/12/2023 DATE OF REPORT :10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1456-42
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-5 DAINMARWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.23	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	398.3	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	110.8	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	173.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	85.8	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	49.6	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	29.1	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.12	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.40	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.17	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	25.06	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.40	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	593.7	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
RAJ KUMAR
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-43/12/2023 DATE OF REPORT :10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1456-43
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-6 MURERA, BELWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	8.02	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	375.1	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	143.2	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	187.7	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	96.2	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	79.6	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	24.3	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.70	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.06	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.18	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	19.24	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.15	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	545.5	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
M.S. TOMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1456-44/12/2023 DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1456-44
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-7MAHUI
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.64	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	487.3	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	164.9	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	195.2	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	83.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	48.8	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	13.0	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.67	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.28	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	22.36	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.29	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	738.5	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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ISO 45001

ETS-LAB

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/1456-45/12/2023 DATE OF REPORT :10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1456-45
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-8BISHUNPURWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.48	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	417.3	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	137.8	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	178.9	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	75.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	44.1	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	34.4	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.42	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.26	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	20.2	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.27	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	667.6	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/1456-46/12/2023 DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1456-46
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-9BARGAJWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.13	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	453.9	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	143.1	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	185.4	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	77.2	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	45.4	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	12.1	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.49	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.26	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	24.5	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.27	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	687.8	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
MR. HUKAM RAJ
Quality Manager

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TEST REPORT

TEST REPORT NO :ETS/1456-33/10/2023

DATE OF REPORT :10.01.2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 15.10.2023
Analysis Start Date : 17.10.2023
Analysis End Date : 20.10.2023
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER
Sampling Location : SW-1MASAN(UP- STREAM)
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.24	IS:3025 (Pt-11)
4.	Turbidity	NTU	12.4	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	404.7	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	196.6	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	210.6	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	80.4	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	54.5	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	40.6	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.72	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.44	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.42	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	25.90	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.54	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	604.0	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	23.6	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at $27^{O}C$ for 3 day)	mg/L	5.30	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.04	APHA-5210
34.	E. Coli	MPN/100ml	395.2	IS:1622-1981
35.	Total Coliform	MPN/100ml	1196.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	592.8	APHA-9221

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO :ETS/1456-34/12/2023

DATE OF REPORT :10.01.2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	14.12.2023
Analysis Start Date	:	16.12.2023
Analysis End Date	:	19.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-2MASAN(DOWN- STREAM)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.38	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.8	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	391.2	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	180.0	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	143.0	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	91.8	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	44.3	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	30.1	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	1.26	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.36	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.10	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	22.46	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.51	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	574.1	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	21.1	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^{0}C for 3 day)	mg/L	4.06	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.59	APHA-5210
34.	E. Coli	MPN/100ml	460.7	IS:1622-1981
35.	Total Coliform	MPN/100ml	1372.8	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	717.6	APHA-9221

****End of Test Report****

CHECKED BY*
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD HOMRA
Quality Manage

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An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ETS-LAB

ISO 45001

TEST REPORT

TEST REPORT NO: ETS1456-35/12/2023

DATE OF REPORT: 10.01.2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	15.12.2023
Analysis Start Date	:	17.12.2023
Analysis End Date	:	20.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-3 POND (27° 6'24.87"N 84°16'38.11"E)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.75	IS:3025 (Pt-11)
4.	Turbidity	NTU	12.6	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	606.1	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	212.9	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	269.2	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	132.4	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	77.2	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	43.7	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.88	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.44	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.23	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	19.86	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.77	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	837.4	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	18.9	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at $27^{O}C$ for 3 day)	mg/L	4.14	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.20	APHA-5210
34.	E. Coli	MPN/100ml	322.4	IS:1622-1981
35.	Total Coliform	MPN/100ml	1050.4	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	509.6	APHA-9221

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
MD HUMRA
Quality Manage

Note:-

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ETS-LAB

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TEST REPORT

TEST REPORT NO :ETS/1456-36/12/2023

DATE OF REPORT :10.01.2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MASAN RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20.12.2023
Analysis Start Date : 22.12.2023
Analysis End Date : 25.12.2023
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER
Sampling Location : SW-4 POND, BELWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.68	IS:3025 (Pt-11)
4.	Turbidity	NTU	14.2	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	584.4	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	216.4	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	310.3	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	114.6	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	55.2	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	39.4	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.32	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.36	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.41	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	22.57	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.52	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	841.0	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	20.9	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at $27^{\circ}C$ for 3 day)	mg/L	3.48	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.48	APHA-5210
34.	E. Coli	MPN/100ml	353.6	IS:1622-1981
35.	Total Coliform	MPN/100ml	1112.8	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	551.2	APHA-9221

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
PURNIMA.
Quality Manage

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TEST REPORT

TEST REPORT NO: ETS/1456-37/12/2023

DATE OF REPORT: 10.01.2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MASAN RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20.12.2023
Analysis Start Date	:	22.12.2023
Analysis End Date	:	25.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-5 TRIVENI NAHAR
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.80	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.9	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	426.4	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	131.9	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	163.5	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	90.7	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	57.0	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	38.2	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.77	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.38	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.20	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	17.37	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.68	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	705.5	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	16.5	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.61	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.53	APHA-5210
34.	E. Coli	MPN/100ml	256.9	IS:1622-1981
35.	Total Coliform	MPN/100ml	867.4	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	396.2	APHA-9221

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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HARBORA RIVER

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ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1730/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Analysis Start Date	:	05.10.2023
Analysis End Date	:	28.12.2023
Sampling Done By	:	ETS STAFF
Sampling Location	:	AAQ-1 PROJECT SITE
Sampling Method	:	ETS/STP/AIR-01
Sampling Machine Placed At Height	:	1.5 MTR. (FROM GROUND)
Weather Condition	:	CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-01	67.2	39.9	10.6	25.0	0.38
2	04.10.2023	ETS/DI-02	89.4	49.6	12.9	27.7	0.43
3	09.10.2023	ETS/DI-03	86.9	50.6	11.8	29.0	0.38
4	12.10.2023	ETS/DI-04	80.6	49.6	12.8	27.1	0.44
5	15.10.2023	ETS/DI-05	87.4	48.0	14.3	30.0	0.37
6	18.10.2023	ETS/DI-06	85.1	48.4	15.1	29.1	0.50
7	22.10.2023	ETS/DI-07	90.9	49.1	13.2	28.8	0.58
8	25.10.2023	ETS/DI-08	87.5	45.8	11.5	26.8	0.55
9	01.11.2023	ETS/DI-09	83.2	45.0	14.5	25.2	0.46
10	04.11.2023	ETS/DI-10	83.6	41.5	15.1	30.0	0.60
11	08.11.2023	ETS/DI-11	86.4	41.7	15.9	30.0	0.64
12	11.11.2023	ETS/DI-12	83.2	44.3	17.0	29.1	0.66
13	15.11.2023	ETS/DI-13	82.0	47.0	14.7	30.3	0.45
14	18.11.2023	ETS/DI-14	84.5	49.6	18.3	31.5	0.44
15	23.11.2023	ETS/DI-15	87.6	49.8	13.0	33.9	0.53
16	27.11.2023	ETS/DI-16	85.6	48.9	11.8	32.5	0.50
17	01.12.2023	ETS/DI-17	83.7	49.4	14.7	35.1	0.78
18	04.12.2023	ETS/DI-18	82.7	50.8	14.2	30.2	0.79
19	08.12.2023	ETS/DI-19	89.0	48.9	11.6	31.2	0.70
20	11.12.2023	ETS/DI-20	82.4	50.5	12.4	30.7	0.57
21	15.12.2023	ETS/DI-21	83.6	49.0	16.2	28.8	0.83
22	18.12.2023	ETS/DI-22	86.7	50.1	14.7	31.2	0.48
23	22.12.2023	ETS/DI-23	85.2	45.7	15.9	29.5	0.59
24	25.12.2023	ETS/DI-24	88.6	44.1	13.5	27.0	0.87
		Minimum	67.2	39.9	10.6	25.0	0.37
		Maximum	90.9	50.8	18.3	35.1	0.87
		Average	84.7	47.4	14.0	29.6	0.56
		98 PERCENTILE	90.2	50.7	17.7	34.6	0.85

****End of Test Report****

CHECKED BY PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO :ETS/1731/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Analysis Start Date	:	07.10.2023
Analysis End Date	:	30.10.2023
Sampling Done By	:	ETS STAFF
Sampling Location	:	AAQ-2 MANJHARIA
Sampling Method	:	ETS/STP/AIR-01
Sampling Machine Placed At Height	:	1.5 MTR. (FROM GROUND)
Weather Condition	:	CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-25	69.7	41.6	12.6	27.2	0.54
2	07.10.2023	ETS/DI-26	84.3	42.5	15.5	28.6	0.76
3	10.10.2023	ETS/DI-27	81.5	43.8	14.0	30.1	0.67
4	14.10.2023	ETS/DI-28	86.6	42.4	15.5	30.9	0.76
5	17.10.2023	ETS/DI-29	82.2	40.8	13.9	28.7	0.60
6	21.10.2023	ETS/DI-30	79.8	41.2	14.9	27.3	0.57
7	24.10.2023	ETS/DI-31	86.0	41.9	14.1	31.3	0.58
8	28.10.2023	ETS/DI-32	82.3	38.0	13.2	27.3	0.45
9	03.11.2023	ETS/DI-33	77.6	37.1	14.0	28.4	0.67
10	06.11.2023	ETS/DI-34	79.7	33.1	14.7	30.1	0.62
11	10.11.2023	ETS/DI-35	81.0	33.3	15.2	31.4	0.50
12	13.11.2023	ETS/DI-36	77.6	36.2	13.9	28.7	0.57
13	17.11.2023	ETS/DI-37	76.4	39.5	12.7	32.8	0.41
14	20.11.2023	ETS/DI-38	79.1	42.5	14.1	30.2	0.59
15	24.11.2023	ETS/DI-39	82.3	46.7	14.3	31.4	0.86
16	27.11.2023	ETS/DI-40	80.3	41.7	14.9	32.4	0.59
17	03.12.2023	ETS/DI-41	78.2	42.1	14.0	30.2	0.62
18	06.12.2023	ETS/DI-42	77.0	43.9	17.3	29.0	0.63
19	10.12.2023	ETS/DI-43	84.1	41.7	12.7	27.2	0.59
20	13.12.2023	ETS/DI-44	87.0	43.7	14.2	25.0	0.42
21	16.12.2023	ETS/DI-45	84.3	41.9	14.7	30.3	0.61
22	20.12.2023	ETS/DI-46	82.3	43.0	14.3	28.7	0.59
23	23.12.2023	ETS/DI-47	79.9	37.7	14.0	26.6	0.66
24	27.12.2023	ETS/DI-48	83.5	38.0	12.9	30.1	0.56
		Minimum	69.7	33.1	12.6	25.0	0.41
		Maximum	87.0	46.7	17.3	32.8	0.86
		Average	80.9	40.5	14.2	29.3	0.60
		98 PERCENTILE	86.8	45.4	16.4	32.6	0.81

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
RAJ KUMAR AJ
Quality Manager

Note:-

1. Test reports without HOLOGRAM are not issued by our laboratory.
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ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ETS-LAB

ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1732/10/2023

DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-3 SAITHAUL
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-49	78.4	36.7	10.7	23.3	0.30
2	04.10.2023	ETS/DI-50	79.3	37.4	11.7	24.4	0.34
3	09.10.2023	ETS/DI-51	76.8	36.5	10.0	23.2	0.31
4	12.10.2023	ETS/DI-52	81.4	37.3	10.3	25.6	0.35
5	15.10.2023	ETS/DI-53	77.3	35.9	11.0	24.6	0.30
6	18.10.2023	ETS/DI-54	79.7	36.4	11.9	26.3	0.40
7	22.10.2023	ETS/DI-55	80.8	37.0	12.1	24.4	0.47
8	25.10.2023	ETS/DI-56	77.4	33.6	12.6	26.7	0.44
9	01.11.2023	ETS/DI-57	80.0	45.1	12.1	25.1	0.36
10	04.11.2023	ETS/DI-58	73.5	41.1	11.9	23.3	0.48
11	08.11.2023	ETS/DI-59	76.2	38.5	12.6	24.4	0.51
12	11.11.2023	ETS/DI-60	73.2	32.2	15.0	25.7	0.53
13	15.11.2023	ETS/DI-61	71.9	34.9	12.0	29.0	0.36
14	18.11.2023	ETS/DI-62	74.4	37.4	11.7	32.6	0.35
15	23.11.2023	ETS/DI-63	77.5	37.7	8.5	26.0	0.42
16	27.11.2023	ETS/DI-64	75.5	36.8	10.0	26.7	0.40
17	01.12.2023	ETS/DI-65	73.6	37.2	9.7	24.4	0.62
18	04.12.2023	ETS/DI-66	72.5	38.7	10.9	27.3	0.64
19	08.12.2023	ETS/DI-67	78.9	36.8	12.1	25.7	0.56
20	11.12.2023	ETS/DI-68	72.3	38.4	9.8	24.5	0.46
21	15.12.2023	ETS/DI-69	73.5	36.9	11.1	26.0	0.66
22	18.12.2023	ETS/DI-70	76.5	37.9	12.0	26.7	0.38
23	22.12.2023	ETS/DI-71	75.1	33.4	10.1	23.8	0.47
24	25.12.2023	ETS/DI-72	78.6	32.0	11.7	25.6	0.69
		Minimum	71.9	32.0	8.5	23.2	0.30
		Maximum	81.4	45.1	15.0	32.6	0.69
		Average	76.4	37.0	11.3	25.6	0.45
		98 PERCENTILE	81.1	43.2	13.9	30.9	0.68

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

Note:-

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ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1733/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023
Analysis End Date : 30.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-4 GAUNAHA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-73	66.7	35.5	9.2	18.4	0.43
2	07.10.2023	ETS/DI-74	74.8	36.1	10.2	19.4	0.61
3	10.10.2023	ETS/DI-75	72.4	37.2	12.0	17.7	0.54
4	14.10.2023	ETS/DI-76	76.7	39.0	11.1	18.5	0.61
5	17.10.2023	ETS/DI-77	73.0	34.8	10.5	20.3	0.48
6	21.10.2023	ETS/DI-78	70.9	35.2	13.9	17.7	0.45
7	24.10.2023	ETS/DI-79	77.6	35.8	13.3	16.7	0.46
8	28.10.2023	ETS/DI-80	73.0	32.7	12.0	17.7	0.36
9	03.11.2023	ETS/DI-81	68.9	31.8	11.7	18.5	0.54
10	06.11.2023	ETS/DI-82	69.4	28.5	12.2	19.4	0.50
11	10.11.2023	ETS/DI-83	71.9	28.7	11.2	20.6	0.40
12	13.11.2023	ETS/DI-84	69.0	31.1	12.0	21.4	0.46
13	17.11.2023	ETS/DI-85	67.9	33.8	11.5	22.1	0.32
14	20.11.2023	ETS/DI-86	70.3	36.1	10.6	20.6	0.48
15	24.11.2023	ETS/DI-87	73.1	36.4	9.1	19.6	0.68
16	27.11.2023	ETS/DI-88	71.3	35.6	9.8	18.7	0.47
17	03.12.2023	ETS/DI-89	69.5	36.0	10.4	19.6	0.50
18	06.12.2023	ETS/DI-90	68.5	37.4	11.6	20.4	0.51
19	10.12.2023	ETS/DI-91	74.6	38.4	12.4	21.8	0.47
20	13.12.2023	ETS/DI-92	78.4	37.1	11.0	20.3	0.33
21	16.12.2023	ETS/DI-93	69.4	35.6	9.6	19.8	0.49
22	20.12.2023	ETS/DI-94	72.3	36.7	10.5	18.5	0.47
23	23.12.2023	ETS/DI-95	71.0	32.4	11.1	19.5	0.53
24	27.12.2023	ETS/DI-96	74.1	30.9	11.7	21.3	0.45
Minimum			66.7	28.5	9.1	16.7	0.32
Maximum			78.4	39.0	13.9	22.1	0.68
Average			71.9	34.7	11.2	19.5	0.48
98 PERCENTILE			78.0	38.7	13.6	22.0	0.65

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Laboratory Manager

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ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1734/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-5 PAKRI BASAULI
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-97	69.2	33.7	9.2	19.6	0.53
2	04.10.2023	ETS/DI-98	71.2	34.3	8.4	14.2	0.29
3	09.10.2023	ETS/DI-99	68.9	35.3	9.8	18.7	0.83
4	12.10.2023	ETS/DI-100	73.1	34.2	13.7	21.0	0.53
5	15.10.2023	ETS/DI-101	69.5	33.0	8.1	18.0	0.47
6	18.10.2023	ETS/DI-102	67.5	33.4	12.4	18.9	0.78
7	22.10.2023	ETS/DI-103	72.6	33.9	11.4	19.9	0.82
8	25.10.2023	ETS/DI-104	69.5	31.0	10.7	20.6	0.61
9	01.11.2023	ETS/DI-105	65.7	30.3	11.1	20.8	0.90
10	04.11.2023	ETS/DI-106	66.2	27.3	13.4	20.1	0.92
11	08.11.2023	ETS/DI-107	68.6	27.3	10.4	18.9	0.73
12	11.11.2023	ETS/DI-108	65.8	29.6	11.1	19.9	0.71
13	15.11.2023	ETS/DI-109	64.7	32.0	9.2	20.7	0.37
14	18.11.2023	ETS/DI-110	66.9	34.3	10.5	20.0	0.47
15	23.11.2023	ETS/DI-111	69.6	34.5	12.2	20.8	0.77
16	27.11.2023	ETS/DI-112	67.9	33.8	12.8	20.9	0.37
17	01.12.2023	ETS/DI-113	66.2	34.0	10.6	18.9	0.76
18	04.12.2023	ETS/DI-114	65.3	35.4	11.1	21.4	0.77
19	08.12.2023	ETS/DI-115	71.0	33.8	11.5	23.7	0.83
20	11.12.2023	ETS/DI-116	65.1	35.2	10.4	19.8	0.43
21	15.12.2023	ETS/DI-117	66.2	33.8	11.2	20.8	0.83
22	18.12.2023	ETS/DI-118	68.8	34.7	10.4	21.7	0.89
23	22.12.2023	ETS/DI-119	76.3	30.8	12.1	20.6	0.67
24	25.12.2023	ETS/DI-120	70.6	29.5	12.0	18.9	0.48
		Minimum	64.7	27.3	8.1	14.2	0.29
		Maximum	76.3	35.4	13.7	23.7	0.92
		Average	68.6	32.7	11.0	19.9	0.66
		98 PERCENTILE	74.8	35.3	13.5	22.8	0.91

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
ROHITUMRAJ
Quality Manager

Note:-
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TEST REPORT

TEST REPORT NO :ETS/1735/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023
Analysis End Date : 30.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-6 BHITIHARWA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-121	58.5	39.9	12.0	20.4	0.42
2	07.10.2023	ETS/DI-122	67.7	40.7	11.3	19.5	0.64
3	10.10.2023	ETS/DI-123	65.6	41.9	12.1	22.6	0.42
4	14.10.2023	ETS/DI-124	69.5	40.6	13.1	23.5	0.48
5	17.10.2023	ETS/DI-125	70.6	46.1	12.4	24.6	0.38
6	21.10.2023	ETS/DI-126	64.3	39.7	10.2	23.5	0.39
7	24.10.2023	ETS/DI-127	69.0	40.2	11.2	26.7	0.45
8	28.10.2023	ETS/DI-128	66.2	36.8	10.2	33.2	0.63
9	03.11.2023	ETS/DI-129	62.5	36.0	13.2	28.8	0.71
10	06.11.2023	ETS/DI-130	62.9	32.4	12.4	22.5	0.77
11	10.11.2023	ETS/DI-131	65.2	32.6	11.3	20.8	0.52
12	13.11.2023	ETS/DI-132	62.6	35.4	10.6	23.4	0.82
13	17.11.2023	ETS/DI-133	61.7	38.1	12.0	21.5	0.76
14	20.11.2023	ETS/DI-134	63.8	40.7	12.4	22.5	0.44
15	24.11.2023	ETS/DI-135	66.3	41.0	10.2	23.7	0.63
16	27.11.2023	ETS/DI-136	64.6	40.0	11.0	20.6	0.76
17	03.12.2023	ETS/DI-137	63.0	43.2	12.2	21.4	0.49
18	06.12.2023	ETS/DI-138	62.3	42.0	13.2	20.7	0.77
19	10.12.2023	ETS/DI-139	67.6	40.0	13.8	22.8	0.74
20	13.12.2023	ETS/DI-140	62.1	41.8	14.5	20.4	0.59
21	16.12.2023	ETS/DI-141	62.9	40.1	13.4	23.1	0.74
22	20.12.2023	ETS/DI-142	65.4	41.3	12.1	21.6	0.80
23	23.12.2023	ETS/DI-143	64.4	36.6	13.4	20.7	0.54
24	27.12.2023	ETS/DI-144	67.1	35.2	12.5	22.1	0.83
Minimum			58.5	32.4	10.2	19.5	0.38
Maximum			70.6	46.1	14.5	33.2	0.83
Average			64.8	39.3	12.1	22.9	0.61
98 PERCENTILE			70.1	44.8	14.2	31.2	0.82

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
ADITHUMBA
Quality Manager

Note:-
1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory. QF/ETS/ATR-01 Issue No. 05 Date 01.04.2019, Amd. No. 04 Date 01.04.2019
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ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1736/10/2023 DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-7 MADHOPUR
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-145	61.0	34.3	9.1	28.4	0.90
2	04.10.2023	ETS/DI-146	70.4	34.9	8.5	25.4	0.78
3	09.10.2023	ETS/DI-147	68.3	35.9	10.0	32.6	0.72
4	12.10.2023	ETS/DI-148	72.2	34.8	10.6	33.8	0.76
5	15.10.2023	ETS/DI-149	68.7	33.6	11.5	35.6	0.36
6	18.10.2023	ETS/DI-150	66.8	34.0	10.0	33.0	0.53
7	22.10.2023	ETS/DI-151	71.7	34.6	10.9	34.5	0.36
8	25.10.2023	ETS/DI-152	68.8	31.7	10.0	35.3	0.47
9	01.11.2023	ETS/DI-153	65.2	31.1	11.0	34.3	0.65
10	04.11.2023	ETS/DI-154	65.4	28.1	10.2	31.0	0.76
11	08.11.2023	ETS/DI-155	67.8	28.2	11.8	32.7	0.90
12	11.11.2023	ETS/DI-156	65.3	30.4	9.9	34.5	0.63
13	15.11.2023	ETS/DI-157	64.2	32.8	9.3	35.3	0.76
14	18.11.2023	ETS/DI-158	66.4	37.7	10.2	34.5	0.33
15	23.11.2023	ETS/DI-159	68.9	35.1	10.0	35.3	0.47
16	27.11.2023	ETS/DI-160	67.2	34.2	11.1	29.2	0.65
17	01.12.2023	ETS/DI-161	65.5	38.6	12.4	31.1	0.36
18	04.12.2023	ETS/DI-162	64.7	36.0	10.0	30.2	0.83
19	08.12.2023	ETS/DI-163	70.1	34.4	12.0	31.3	0.54
20	11.12.2023	ETS/DI-164	64.5	35.8	11.9	35.3	0.44
21	15.12.2023	ETS/DI-165	65.4	34.5	10.2	34.5	0.76
22	18.12.2023	ETS/DI-166	68.1	35.3	9.2	28.6	0.65
23	22.12.2023	ETS/DI-167	66.9	31.5	11.4	32.6	0.90
24	25.12.2023	ETS/DI-168	69.8	30.2	10.1	33.0	0.51
Minimum			61.0	28.1	8.5	25.4	0.33
Maximum			72.2	38.6	12.4	35.6	0.90
Average			67.2	33.7	10.5	32.6	0.63
98 PERCENTILE			71.9	38.2	12.2	35.4	0.90

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY

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ETS-LAB

ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1737/10/2023

DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Analysis Start Date	:	07.10.2023
Analysis End Date	:	30.12.2023
Sampling Done By	:	ETS STAFF
Sampling Location	:	AAQ-8 AMOLWA
Sampling Method	:	ETS/STP/AIR-01
Sampling Machine Placed At Height	:	1.5 MTR. (FROM GROUND)
Weather Condition	:	CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-169	79.8	44.7	13.5	28.5	0.30
2	07.10.2023	ETS/DI-170	78.2	45.4	15.0	27.9	0.26
3	10.10.2023	ETS/DI-171	78.2	46.5	16.6	31.0	0.38
4	14.10.2023	ETS/DI-172	82.6	45.3	15.3	26.9	0.49
5	17.10.2023	ETS/DI-173	83.5	43.8	14.3	25.6	0.35
6	21.10.2023	ETS/DI-174	76.6	44.3	12.4	23.0	0.56
7	24.10.2023	ETS/DI-175	82.0	45.0	13.5	26.8	0.69
8	28.10.2023	ETS/DI-176	78.8	41.4	15.0	21.4	0.59
9	03.11.2023	ETS/DI-177	74.7	40.7	16.6	23.9	0.64
10	06.11.2023	ETS/DI-178	81.5	37.0	17.3	32.2	0.63
11	10.11.2023	ETS/DI-179	85.3	48.1	16.6	26.6	0.74
12	13.11.2023	ETS/DI-180	74.8	39.8	15.3	28.1	0.58
13	17.11.2023	ETS/DI-181	73.6	42.8	13.5	29.4	0.56
14	20.11.2023	ETS/DI-182	76.0	45.4	14.1	31.3	0.53
15	24.11.2023	ETS/DI-183	78.9	45.7	15.0	32.3	0.67
16	27.11.2023	ETS/DI-184	77.0	44.8	13.0	33.3	0.63
17	03.12.2023	ETS/DI-185	75.2	45.1	13.7	31.4	0.78
18	06.12.2023	ETS/DI-186	68.7	46.8	15.3	30.9	0.73
19	10.12.2023	ETS/DI-187	80.3	44.8	16.3	33.3	0.79
20	13.12.2023	ETS/DI-188	72.6	46.4	18.2	33.9	0.28
21	16.12.2023	ETS/DI-189	75.1	44.9	16.2	32.6	0.56
22	20.12.2023	ETS/DI-190	78.0	45.9	15.6	31.1	0.76
23	23.12.2023	ETS/DI-191	76.7	41.2	14.6	29.4	0.44
24	27.12.2023	ETS/DI-192	79.9	39.6	17.3	27.2	0.54
		Minimum	68.7	37.0	12.4	21.4	0.26
		Maximum	85.3	48.1	18.2	33.9	0.79
		Average	77.8	44.0	15.2	29.0	0.56
		98 PERCENTILE	84.5	47.5	17.8	33.6	0.78

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
NIMRAJ
Quality Manager

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ETS-LAB

ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1701/10/2023

DATE OF REPORT :10-01-2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR.
Date of Sampling	:	10-12-2023
Analysis Start Date	:	13-12-2023
Analysis End Date	:	16-12-2023
Sample ID No	:	ETS/SL-1701
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-1 MANJHARIA
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	—	7.07	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	450.6	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	181.3	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	193.9	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	76.7	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	45.1	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	11.99	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.47	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.26	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	20.7	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.27	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C_6H_5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	682.6	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	—	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	—	IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1702/10/2023 DATE OF REPORT :10-01-2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	10-12-2023
Analysis Start Date	:	13-12-2023
Analysis End Date	:	16-12-2023
Sample ID No	:	ETS/SL-1702
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-2 SAITHAUL
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.41	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	346.8	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	132.4	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	173.6	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	68.9	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	73.6	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	22.54	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.57	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.06	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.16	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	17.8	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.13	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	504.3	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY:
PURNIMA SINGH

AUTHORIZED SIGNATORY

Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1703/10/2023 DATE OF REPORT :10-01-2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 15-12-2023
Analysis Start Date : 18-12-2023
Analysis End Date : 21-12-2023
Sample ID No : ETS/SL-1703
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-3 GAUNAHA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.50	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	213.9	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	109.4	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	143.0	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	90.8	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	49.4	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	26.9	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.84	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.07	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.17	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	15.0	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.21	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C_6H_5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	417.8	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

MD KUMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1704/10/2023 DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1704
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-4 PAKRI BASAULI
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	—	7.68	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	371.8	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	103.4	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	162.2	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	80.1	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	46.3	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	27.23	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.12	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.37	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.16	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	23.4	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.37	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C_6H_5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30	Conductivity (25 °C)	mhos/cm	554.3	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	—	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	—	IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1705/10/2023

DATE OF REPORT :10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-12-2023
Analysis Start Date	:	23-12-2023
Analysis End Date	:	28-12-2023
Sample ID No	:	ETS/SL-1705
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-5 BHITIHARWA
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.82	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	543.1	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	150.5	200	600	IS:3025 (Pt-23)
8.	Total-Hardness(CaCO3)	mg/L	216.9	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	123.7	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	86.4	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	27.6	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.23	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.37	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.13	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	17.6	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.33	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	730.4	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Delectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Delectable	---	IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1706/10/2023

DATE OF REPORT :10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-12-2023
Analysis Start Date	:	23-12-2023
Analysis End Date	:	26-12-2023
Sample ID No	:	ETS/SL-1706
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-6 MADHOPUR
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.22	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	459.4	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	144.8	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	187.7	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	78.2	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	46.0	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	12.22	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.52	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.26	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	21.1	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.27	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	696.2	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1707/10/2023 DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1707
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-7AMOLWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	—	7.57	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	445.9	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	139.4	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	181.1	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	75.9	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	44.6	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	34.8	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.45	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.26	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	20.48	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.27	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C_6H_5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	675.7	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1724/10/2023

DATE OF REPORT : 10.01.2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 15.10.2023
Analysis Start Date : 17.10.2023
Analysis End Date : 20.10.2023
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER
Sampling Location : SW-1 HARBORA(UP- STREAM)
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	—	Agreeable	IS:3025 (Pt-5)
3.	pH	—	7.69	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.53	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	377.8	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	183.5	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	196.6	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	75.0	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	50.9	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	37.9	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.67	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.41	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.39	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	24.2	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.50	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	661.0	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	22.03	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	4.95	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	3.77	APHA-5210
34.	E. Coli	MPN/100ml	370.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	1120.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	560.0	APHA-9221

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1725/10/2023

DATE OF REPORT : 10.01.2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	14.12.2023
Analysis Start Date	:	16.12.2023
Analysis End Date	:	19.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-2 HARBORA(DOWN- STREAM)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.83	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.18	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	365.2	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	168.1	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	133.5	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	85.7	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	41.4	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	28.1	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	1.17	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.34	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.10	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	21.0	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.48	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	535.9	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	19.68	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.79	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.28	APHA-5210
34.	E. Coli	MPN/100ml	430.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	1290.0	IS:1622-1981
136.	Faecal Coliform	MPN/100ml	670.0	APHA-9221

For ENVIRO-TECH SERVICES

****End of Test Report****

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

Note:-

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TEST REPORT

TEST REPORT NO : ETS/1726/10/2023 DATE OF REPORT : 10.01.2024

WATERSAMPLE ANALYSIS REPORT

Name And Addrees of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUL BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	15.12.2023
Analysis Start Date	:	17.12.2023
Analysis End Date	:	20.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-3 CANAL(27°13'46.51"N84°27'46.61"E)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	—	Agreeable	IS:3025 (Pt-5)
3.	pH	—	7.55	IS;3025 (Pt-11)
4.	Turbidity	NTU	11.73	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	565.8	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	198.7	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	251.3	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	123.6	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	72.0	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	40.8	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.83	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.41	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.21	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	18.5	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.72	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	781.7	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	17.65	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.86	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.85	APHA-5210
34.	E. Coli	MPN/100ml	310.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	980.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	480.0	APHA-9221

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1727/10/2023

DATE OF REPORT : 10.01.2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20.12.2023
Analysis Start Date	:	22.12.2023
Analysis End Date	:	25.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-4 POND, PAKRI BASAULI
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.83	IS:3025 (Pt-11)
4.	Turbidity	NTU	13.26	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	545.5	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	202.0	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	289.7	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	107.0	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	51.6	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	36.8	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.30	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.34	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.36	IS.3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	21.1	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.49	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	< us/Cm	785.1	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	19.54	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.25	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.12	APHA-5210
34.	E. Coli	MPN/100ml	330.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	1040.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	520.0	APHA-9221

End of Test Report

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1729/10/2023

DATE OF REPORT : 10.01.2024

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20.12.2023
Analysis Start Date	:	22.12.2023
Analysis End Date	:	25.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-5 POND, MANJHARIA
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.57	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.20	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	494.4	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	173.6	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	219.6	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	108.0	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	62.9	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	35.6	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.72	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.36	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.18	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	16.2	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.63	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	683.1	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	15.42	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.37	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.23	APHA-5210
34.	E. Coli	MPN/100ml	240.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	810.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	370.0	APHA-9221

*****End of Test Report*****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
PANKAJ
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1708/12/2023 DATE OF REPORT:10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	10.12.2023
Monitoring Start Date	:	10.12.2023
Monitoring End Date	:	11.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-1 PROJECT SITE
Category Of Area	:	RESIDENTIALAREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	52.7	55
2.	Noise Level Night Time	Leq :dB (A)	40.2	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1709/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	12.12.2023
Monitoring Start Date	:	12.12.2023
Monitoring End Date	:	13.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-2 MANJHARIA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	50.2	55
2.	Noise Level Night Time	Leq :dB (A)	37.3	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1710/12/2023

DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	14.12.2023
Monitoring Start Date	:	14.12.2023
Monitoring End Date	:	15.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-3 SAITHAUL
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	50.6	50
2.	Noise Level Night Time	Leq :dB (A)	38.1	40

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

D. KUMARAJ
Quality Manager

Note:-

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ETS-LAB

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An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

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TEST REPORT

TEST REPORT NO : ETS/1711/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	15.12.2023
Monitoring Start Date	:	15.12.2023
Monitoring End Date	:	16.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-4 GAUNAHA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	51.2	55
2.	Noise Level Night Time	Leq :dB (A)	42.4	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
RAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1712/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	18.12.2023
Monitoring Start Date	:	18.12.2023
Monitoring End Date	:	19.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-5 PAKRI BASAULI
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	45.8	55
2.	Noise Level Night Time	Leq :dB (A)	36.3	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1713/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-6 BHITIHARWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.5	55
2.	Noise Level Night Time	Leq :dB (A)	35.4	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1714/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	20.12.2023
Monitoring Start Date	:	20.12.2023
Monitoring End Date	:	21.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-7 MADHOPUR
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	53.1	55
2.	Noise Level Night Time	Leq :dB (A)	34.3	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1715/12/2023 DATE OF REPORT :10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-8 AMOLWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.3	55
2.	Noise Level Night Time	Leq :dB (A)	37.2	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1716/10/2023 DATE OF REPORT:10-01-2024

SOILSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1716
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-1 PROJECT SITE
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	73.6	IS:2720 (Pt-4)
3.	Silt	%	16.2	IS:2720 (Pt-4)
4.	Clay	%	10.2	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.16	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.51	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	310.0	IS:14767
8.	Water Holding Capacity(WHC)	%	30.6	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	141.3	APHA-3125B
10.	Calcium (Ca)	mg/kg	990.6	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	468.5	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.32	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	163.8	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	39.6	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	231.8	APHA-3125B
16.	Organic Matter	%	1.15	IS: 2720 (P-22)
17.	Organic Carbon	%	1.34	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.84	IS:3025(P-24)
19.	Porosity	%	25.42	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.54	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1717/10/2023 DATE OF REPORT:10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1717
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-2 MANJHARIA
Sampling Quantity : 2 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	67.0	IS:2720 (Pt-4)
3.	Silt	%	18.7	IS:2720 (Pt-4)
4.	Clay	%	14.3	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.72	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.73	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	333.0	IS:14767
8.	Water Holding Capacity(WHC)	%	36.9	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	133.9	APHA-3125B
10.	Calcium (Ca)	mg/kg	1042.0	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	458.1	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.72	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	237.2	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	49.6	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	375.8	APHA-3125B
16.	Organic Matter	%	1.39	IS : 2720 (P-22)
17.	Organic Carbon	%	1.50	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.62	IS:3025(P-24)
19.	Porosity	%	20.68	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.87	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1718/10/2023 DATE OF REPORT:10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Addrees of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1718
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-3 SAITHAUL
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	64.3	IS:2720 (Pt-4)
3.	Silt	%	23.1	IS:2720 (Pt-4)
4.	Clay	%	12.6	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.22	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.34	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	318.4	IS:14767
8.	Water Holding Capacity(WHC)	%	34.5	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	134.5	APHA-3125B
10.	Calcium (Ca)	mg/kg	1256.2	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	488.7	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.23	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	163.9	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	55.0	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	323.5	APHA-3125B
16.	Organic Matter	%	1.06	IS : 2720 (P-22)
17.	Organic Carbon	%	1.31	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.21	IS:3025(P-24)
19.	Porosity	%	19.57	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.86	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/1719/10/2023 DATE OF REPORT:10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1719
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-4 GAUNAHA
Sampling Quantity	:	2.0 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	68.8	IS:2720 (Pt-4)
3.	Silt	%	21.0	IS:2720 (Pt-4)
4.	Clay	%	10.2	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	--	7.38	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.21	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	312.8	IS:14767
8.	Water Holding Capacity(WHC)	%	34.2	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	160.1	APHA-3125B
10.	Calcium (Ca)	mg/kg	1088.4	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	449.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.11	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	166.5	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	49.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	288.0	APHA-3125B
16.	Organic Matter	%	0.86	IS : 2720 (P-22)
17.	Organic Carbon	%	1.53	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.34	IS:3025(P-24)
19.	Porosity	%	22.29	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.77	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO: ETS/1720/10/2023 DATE OF REPORT:10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1720
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-5PAKRI BASAULI
Sampling Quantity : 2.0 kg
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	57.1	IS:2720 (Pt-4)
3.	Silt	%	30.4	IS:2720 (Pt-4)
4.	Clay	%	12.5	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.35	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.25	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	296.1	IS:14767
8.	Water Holding Capacity(WHC)	%	35.2	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	127.5	APHA-3125B
10.	Calcium (Ca)	mg/kg	1112.4	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	500.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.42	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	162.0	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	37.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	237.4	APHA-3125B
16.	Organic Matter	%	0.96	IS : 2720 (P-22)
17.	Organic Carbon	%	1.25	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.92	IS:3025(P-24)
19.	Porosity	%	17.65	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.72	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

TEST REPORT For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO: ETS/1721/10/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1721
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-6BHITIHARWA
Sampling Quantity	:	2.0 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	60.5	IS:2720 (Pt-4)
3.	Silt	%	25.2	IS:2720 (Pt-4)
4.	Clay	%	14.3	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.57	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.70	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	326.4	IS:14767
8.	Water Holding Capacity(WHC)	%	36.1	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	131.2	APHA-3125B
10.	Calcium (Ca)	mg/kg	1021.5	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	449.1	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.69	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	232.5	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	67.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	368.4	APHA-3125B
16.	Organic Matter	%	1.36	IS: 2720 (P-22)
17.	Organic Carbon	%	1.47	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.58	IS:3025(P-24)
19.	Porosity	%	20.27	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.85	ASTM 9214

****End of Test Report****

CHECKED BY PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO: ETS/1722/10/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1722
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-7MADHOPUR
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
22.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
23.	Sand	%	56.2	IS:2720 (Pt-4)
24.	Silt	%	25.6	IS:2720 (Pt-4)
25.	Clay	%	18.2	IS:2720 (Pt-4)
26.	pH (1:2 Suspension)	--	7.34	IS:2720 (Pt-26)
27.	Sodium Absorption Ratio (SAR)*	%	1.65	ETS/STP/SOIL-16
28.	Electrical Conductivity (1:2)	µmho/cm	316.61	IS:14767
29.	Water Holding Capacity(WHC)	%	35.0	IS 2720 (Part-2)
30.	Sodium (Na)	mg/kg	127.3	APHA-3125B
31.	Calcium (Ca)	mg/kg	1226.7	IS 2720 (Part-23)
32.	Magnesium (Mg)	mg/kg	515.64	ETS/STP/SOIL-08
33.	Bulk Density	g/cm^3	1.64	IS 2386 (Part-4)
34.	Total Nitrogen (N)	mg/kg	225.5	APHA,Pt 4500:(N)
35.	Phosphorus (PO4)	mg/kg	65.6	ETS/STP/SOIL-19
36.	Potassium (K)	mg/kg	357.3	APHA-3125B
37.	Organic Matter	%	1.32	IS : 2720 (P-22)
38.	Organic Carbon	%	1.43	BS 1377 -3)
39.	Sulphate as (SO_4)	mg/kg	1.53	IS:3025(P-24)
40.	Porosity	%	19.66	IS 13030
41.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
42.	Fluoride	mg/kg	0.83	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO: ETS/1723/10/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON HARBORA RIVER,MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1723
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-8 AMOLWA
Sampling Quantity	:	2.0 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
22.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
23.	Sand	%	56.7	IS:2720 (Pt-4)
24.	Silt	%	25.1	IS:2720 (Pt-4)
25.	Clay	%	18.2	IS:2720 (Pt-4)
26.	pH (1:2 Suspension)	--	7.80	IS:2720 (Pt-26)
27.	Sodium Absorption Ratio (SAR)*	%	1.21	ETS/STP/SOIL-16
28.	Electrical Conductivity (1:2)	µmho/cm	287.3	IS:14767
29.	Water Holding Capacity(WHC)	%	34.2	IS 2720 (Part-2)
30.	Sodium (Na)	mg/kg	123.6	APHA-3125B
31.	Calcium (Ca)	mg/kg	1079.0	IS 2720 (Part-23)
32.	Magnesium (Mg)	mg/kg	485.0	ETS/STP/SOIL-08
33.	Bulk Density	g/cm^3	1.37	IS 2386 (Part-4)
34.	Total Nitrogen (N)	mg/kg	157.1	APHA,Pt 4500:(N)
35.	Phosphorus (PO4)	mg/kg	56.6	ETS/STP/SOIL-19
36.	Potassium (K)	mg/kg	282.2	APHA-3125B
37.	Organic Matter	%	0.93	IS: 2720 (P-22)
38.	Organic Carbon	%	1.21	BS 1377 -3)
39.	Sulphate as (SO_4)	mg/kg	1.86	IS:3025(P-24)
40.	Porosity	%	17.12	IS 13030
41.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
42.	Fluoride	mg/kg	0.70	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

MR. SOMRAJ
Quality Manager

AUTHORIZED SIGNATORY

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MANIYARI RIVER

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TEST REPORT

TEST REPORT NO : ETS/991-1/12/2023

DATE OF REPORT : 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 10-12-2023
Analysis Start Date : 13-12-2023
Analysis End Date : 16-12-2023
Sample ID No : 991-1
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-1 BAJRA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.87	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	463.7	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	145.0	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	188.3	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	78.9	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	46.4	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	36.2	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.55	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.27	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	21.3	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.28	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	702.7	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

For ENVIRO-TECH SERVICES

End of Test Report

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/991-2/12/2023

DATE OF REPORT : 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 10-12-2023
Analysis Start Date : 13-12-2023
Analysis End Date : 16-12-2023
Sample ID No : 991-2
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-2 PADRAUN
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.51	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	477.8	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	150.6	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	195.2	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	81.3	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	47.8	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	12.7	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.62	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.27	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	21.9	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.28	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C_6H_5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	724.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-
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2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained after 07 days. Format No. ETS/LAB/F-02, Issued No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019
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ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

ISO 45001

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/991-3/12/2023

DATE OF REPORT : 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 15-12-2023
Analysis Start Date : 18-12-2023
Analysis End Date : 21-12-2023
Sample ID No : 991-3
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-3 BARWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.18	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	564.8	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	156.5	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	224.5	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	128.6	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	89.9	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	28.7	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.24	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.38	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.14	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	18.3	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.34	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C_6H_5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	759.6	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Cell/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

For ENVIRO-TECH SERVICES

****End of Test Report****

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

Note:-
1. Test reports without HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
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5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/991-4/12/2023

DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : 991-4
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-4 DHAMRAPUR
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.91	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	383.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	106.5	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	167.1	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	82.5	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	47.7	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	28.0	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.12	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.38	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.16	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	24.1	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.38	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	570.9	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Note:-
1. Test reports without LOGO & HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/991-5/12/2023

DATE OF REPORT : 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : 991-5
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-5 DURGA MANDIR, BIRANCHI
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	—	7.80	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	273.5	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	113.8	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	148.7	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	94.4	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	51.4	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	28.0	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.87	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.07	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.18	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	15.6	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.22	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	434.5	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	—	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	—	IS:1622-1981

For ENVIRO-TECH SERVICES

**** End of Test Report ****

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

Note:-
1. Test reports without ETS HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained after 7 days of issue of test report. Format No. ETS/F/08, Rev. No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019
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TEST REPORT

TEST REPORT NO : ETS/991-6/12/2023

DATE OF REPORT : 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : 991-6
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-6 SIHNAULA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.71	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	360.7	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	137.7	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	180.5	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	92.5	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	76.5	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	23.4	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.63	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.06	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.17	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	18.5	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.14	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	524.5	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

For ENVIRO-TECH SERVICES

****End of Test Report****

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
PUMRAJ

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TEST REPORT

TEST REPORT NO : ETS/991-7/12/2023

DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : 991-7
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-7 BHATUAHWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.35	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	468.6	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	158.6	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	187.7	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	79.8	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	46.9	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	12.5	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.57	45	No Relaxation	IS:3025 (Pt-34)
14.	Flucride (F)	mg/L	0.27	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	21.5	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.28	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	710.1	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ETS-LAB

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/991-8/10/2023

DATE OF REPORT : 10.01.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 15.10.2023
Analysis Start Date : 17.10.2023
Analysis End Date : 20.10.2023
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER
Sampling Location : SW-1 MANIYARI RIVER (UP- STREAM)
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.92	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.88	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	389.1	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	189.0	IS:3025 (Pt-23)
7.	Total Hardness (CaCO3)	mg/L	202.5	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	77.3	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	52.4	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	39.0	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.69	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.42	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.40	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	24.9	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.52	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	580.8	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	22.69	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	5.10	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	3.88	APHA-5210
34.	E. Coli	MPN/100ml	380.0	IS:1622-1981
35.	Total Colliform	MPN/100ml	1150.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	570.0	APHA-9221

End of Test Report

CHECKED BY
PURNIMA SINGH

FOR ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/991-9/12/2023

DATE OF REPORT : 10.01.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 14.12.2023
Analysis Start Date : 16.12.2023
Analysis End Date : 19.12.2023
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER
Sampling Location : SW-2 MANIYARI RIVER (DOWN- STREAM)
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	8.06	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.46	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	376.2	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	173.1	IS:3025 (Pt-23)
7.	Total Hardness($CaCO_3$)	mg/L	137.5	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	88.3	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	42.6	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	28.9	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	1.21	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.35	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.10	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	21.6	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.49	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	552.0	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	20.27	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.90	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.41	APHA-5210
34.	E. Coli	MPN/100ml	443.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	1320.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	690.0	APHA-9221

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO: ETS/991-10/12/2023

DATE OF REPORT: 10.01.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	15.12.2023
Analysis Start Date	:	17.12.2023
Analysis End Date	:	20.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-3 CANAL (27°13'43.80"N 84°34'39.32"E)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 LL
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.78	IS:3025 (Pt-11)
4.	Turbidity	NTU	12.08	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	582.8	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	204.7	IS:3025 (Pt-23)
7.	Total Hardness (CaCO3)	mg/L	256.8	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	127.3	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	74.2	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	42.0	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.85	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.42	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.22	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	19.1	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.74	APHA-3111 (B)
22.	Cadmium (Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	805.2	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	18.18	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.98	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.00	APHA-5210
34.	E. Coli	MPN/100ml	310.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	1010.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	490.0	APHA-9221

For ENVIRO-TECH SERVICES

****End of Test Report****

CHECKED BY

PURNIMA SINGH

AUTHORIZED SIGNATORY

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ETS-LAB

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/991-11/12/2023

DATE OF REPORT : 10.01.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20.12.2023
Analysis Start Date	:	22.12.2023
Analysis End Date	:	25.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-4 POND (27°12'41.18"N 84°32'47.84"E)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.99	IS:3025 (Pt-11)
4.	Turbidity	NTU	13.66	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	561.9	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	208.1	IS:3025 (Pt-23)
7.	Total Hardness (CaCO3)	mg/L	298.4	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	110.2	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	53.1	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	37.9	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.31	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.35	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.39	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	21.7	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.50	APHA-3111 (B)
22.	Cadmium (Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	808.7	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	20.13	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.35	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.27	APHA-5210
34.	E. Coli	MPN/100ml	340.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	1070.0	IS:1622-1981
36.	Feecal Coliform	MPN/100ml	530.0	APHA-9221

For ENVIRO-TECH SERVICES

****End of Test Report****

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/991-12/12/2023

DATE OF REPORT : 10.01.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO - 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20.12.2023
Analysis Start Date	:	22.12.2023
Analysis End Date	:	25.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-5 POND, PARSAUNI
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 LI.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.80	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.51	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	410.0	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	126.6	IS:3025 (Pt-23)
7.	Total Hardness (CaCO3)	mg/L	157.2	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	87.2	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	54.8	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	36.7	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.74	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.37	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.19	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	16.7	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.65	APHA-3111 (B)
22.	Cadmium (Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	678.4	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	15.88	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.47	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.36	APHA-5210
34.	E. Coli	MPN/100ml	247	IS:1622-1981
35.	Total Coliform	MPN/100ml	834	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	381	APHA-9221

For ENVIRO-TECH SERVICES

****End of Test Report****

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY

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ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

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TEST REPORT

TEST REPORT NO : ETS/991-13/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	10.12.2023
Monitoring Start Date	:	10.12.2023
Monitoring End Date	:	11.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-1 PROJECT SITE
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	51.2	55
2.	Noise Level Night Time	Leq :dB (A)	44.8	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/991-14/12/2023

DATE OF REPORT : 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	12.12.2023
Monitoring Start Date	:	12.12.2023
Monitoring End Date	:	13.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-2 BAJRA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.3	55
2.	Noise Level Night Time	Leq :dB (A)	36.1	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
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TEST REPORT

TEST REPORT NO : ETS/991-15/12/2023

DATE OF REPORT : 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	14.12.2023
Monitoring Start Date	:	14.12.2023
Monitoring End Date	:	15.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-3 PADRAUN
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	46.4	50
2.	Noise Level Night Time	Leq :dB (A)	37.7	40

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
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TEST REPORT

TEST REPORT NO : ETS/991-16/12/2023

DATE OF REPORT : 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	15.12.2023
Monitoring Start Date	:	15.12.2023
Monitoring End Date	:	16.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-4 BARWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	53.6	55
2.	Noise Level Night Time	Leq :dB (A)	40.1	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/991-17/12/2023

DATE OF REPORT : 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	18.12.2023
Monitoring Start Date	:	18.12.2023
Monitoring End Date	:	19.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-5 DHAMRAPUR
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	47.5	55
2.	Noise Level Night Time	Leq :dB (A)	38.6	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/991-18/12/2023

DATE OF REPORT : 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-6 DURGA MANDIR, BIRANCHI
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	47.3	55
2.	Noise Level Night Time	Leq :dB (A)	34.5	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

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AUTHORIZED SIGNATORY

Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/991-19/12/2023

DATE OF REPORT : 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	20.12.2023
Monitoring Start Date	:	20.12.2023
Monitoring End Date	:	21.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-7 SIHNAULA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.8	55
2.	Noise Level Night Time	Leq :dB (A)	36.4	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

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TEST REPORT

TEST REPORT NO : ETS/991-20/12/2023

DATE OF REPORT : 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-8 BHATUAHWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	53.6	55
2.	Noise Level Night Time	Leq :dB (A)	42.1	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/991-21/10/2023

DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-1 PROJECT SITE
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-01	85.1	38.7	10.3	24.2	0.51
2	04.10.2023	ETS/DI-02	86.7	46.2	12.5	26.9	0.28
3	09.10.2023	ETS/DI-03	84.3	49.1	11.4	28.2	0.60
4	12.10.2023	ETS/DI-04	78.2	48.1	12.4	26.2	0.51
5	15.10.2023	ETS/DI-05	84.8	46.6	13.9	29.1	0.46
6	18.10.2023	ETS/DI-06	82.6	47.0	14.6	28.3	0.76
7	22.10.2023	ETS/DI-07	88.2	47.6	12.8	27.9	0.79
8	25.10.2023	ETS/DI-08	84.9	44.5	11.1	26.0	0.69
9	01.11.2023	ETS/DI-09	80.7	43.6	14.1	24.5	0.87
10	04.11.2023	ETS/DI-10	81.1	40.2	14.6	29.1	0.89
11	08.11.2023	ETS/DI-11	83.8	40.4	15.4	29.1	0.71
12	11.11.2023	ETS/DI-12	80.8	43.0	16.5	28.3	0.69
13	15.11.2023	ETS/DI-13	79.6	45.6	14.3	29.4	0.36
14	18.11.2023	ETS/DI-14	81.9	48.2	17.8	30.6	0.46
15	23.11.2023	ETS/DI-15	85.0	48.3	12.6	32.9	0.75
16	27.11.2023	ETS/DI-16	83.1	47.4	11.4	31.5	0.36
17	01.12.2023	ETS/DI-17	81.2	47.9	14.3	34.1	0.74
18	04.12.2023	ETS/DI-18	80.2	49.3	13.8	29.3	0.75
19	08.12.2023	ETS/DI-19	86.4	47.4	11.2	30.3	0.80
20	11.12.2023	ETS/DI-20	79.9	49.0	12.1	29.7	0.42
21	15.12.2023	ETS/DI-21	81.1	47.5	15.7	27.9	0.80
22	18.12.2023	ETS/DI-22	84.1	48.6	14.3	30.3	0.87
23	22.12.2023	ETS/DI-23	82.7	44.3	15.4	28.6	0.65
24	25.12.2023	ETS/DI-24	85.9	42.8	13.1	28.1	0.47
Minimum			85.1	38.7	10.3	24.2	0.28
Maximum			88.2	49.3	17.8	34.1	0.89
Average			82.2	46.0	13.6	28.7	0.64
98 PERCENTILE			87.5	49.2	17.2	33.5	0.88

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO : ETS/991-22/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023

Analysis End Date : 30.10.2023

Sampling Done By : ETS STAFF

Sampling Location : AAQ-2 BAJRA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-25	67.6	40.4	12.2	26.4	0.41
2	07.10.2023	ETS/DI-26	81.7	41.2	15.0	27.7	0.53
3	10.10.2023	ETS/DI-27	79.1	42.4	13.6	29.2	0.41
4	14.10.2023	ETS/DI-28	84.0	41.1	15.0	30.0	0.46
5	17.10.2023	ETS/DI-29	79.8	39.6	13.5	27.9	0.37
6	21.10.2023	ETS/DI-30	77.4	40.0	14.5	26.5	0.38
7	24.10.2023	ETS/DI-31	83.4	40.6	13.7	30.3	0.44
8	28.10.2023	ETS/DI-32	79.8	36.9	12.8	26.5	0.61
9	03.11.2023	ETS/DI-33	75.3	36.0	13.6	27.5	0.69
10	06.11.2023	ETS/DI-34	77.3	32.1	14.3	29.2	0.75
11	10.11.2023	ETS/DI-35	78.6	32.3	14.7	30.4	0.51
12	13.11.2023	ETS/DI-36	75.3	35.1	13.5	27.9	0.79
13	17.11.2023	ETS/DI-37	74.1	38.3	12.3	31.9	0.74
14	20.11.2023	ETS/DI-38	76.7	41.2	13.7	29.3	0.43
15	24.11.2023	ETS/DI-39	79.8	45.3	13.9	30.4	0.61
16	27.11.2023	ETS/DI-40	77.9	40.5	14.5	31.4	0.74
17	03.12.2023	ETS/DI-41	75.9	40.8	13.6	29.3	0.47
18	06.12.2023	ETS/DI-42	74.7	42.5	16.8	28.2	0.75
19	10.12.2023	ETS/DI-43	81.5	40.5	12.3	26.4	0.71
20	13.12.2023	ETS/DI-44	84.4	42.3	13.8	24.3	0.67
21	16.12.2023	ETS/DI-45	81.7	40.6	14.3	29.4	0.71
22	20.12.2023	ETS/DI-46	79.8	41.7	13.9	27.9	0.77
23	23.12.2023	ETS/DI-47	77.5	36.6	13.6	25.8	0.52
24	27.12.2023	ETS/DI-48	81.0	34.9	12.5	29.2	0.81
Minimum			67.6	32.1	12.2	24.3	0.37
Maximum			84.4	45.3	16.8	31.9	0.81
Average			78.5	39.3	13.8	28.5	0.59
98 PERCENTILE			84.2	44.0	15.9	31.7	0.80

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY

Note:-

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/991-23/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023

Analysis End Date : 28.12.2023

Sampling Done By : ETS STAFF

Sampling Location : AAQ-3 PADRAUN

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-49	76.0	35.6	10.4	22.6	0.88
2	04.10.2023	ETS/DI-50	76.9	36.3	11.4	23.7	0.73
3	09.10.2023	ETS/DI-51	74.5	37.3	9.7	22.5	0.70
4	12.10.2023	ETS/DI-52	78.9	35.2	10.0	24.9	0.73
5	15.10.2023	ETS/DI-53	75.0	34.9	10.7	23.8	0.35
6	18.10.2023	ETS/DI-54	77.4	35.3	11.8	25.5	0.52
7	22.10.2023	ETS/DI-55	78.4	35.9	11.7	23.7	0.35
8	25.10.2023	ETS/DI-56	75.1	32.6	12.2	25.9	0.45
9	01.11.2023	ETS/DI-57	77.6	43.7	11.7	24.4	0.63
10	04.11.2023	ETS/DI-58	71.3	39.9	11.6	22.6	0.73
11	08.11.2023	ETS/DI-59	73.9	37.3	12.2	23.7	0.88
12	11.11.2023	ETS/DI-60	71.0	31.2	14.5	25.0	0.61
13	15.11.2023	ETS/DI-61	69.7	33.8	11.7	28.1	0.73
14	18.11.2023	ETS/DI-62	72.2	36.3	11.4	31.6	0.32
15	23.11.2023	ETS/DI-63	75.2	36.5	8.2	25.2	0.45
16	27.11.2023	ETS/DI-64	73.2	35.7	9.7	25.9	0.63
17	01.12.2023	ETS/DI-65	71.4	36.1	9.4	23.7	0.35
18	04.12.2023	ETS/DI-66	70.3	37.5	10.6	26.5	0.81
19	08.12.2023	ETS/DI-67	76.6	35.7	11.7	25.0	0.53
20	11.12.2023	ETS/DI-68	70.2	37.2	9.5	23.7	0.42
21	15.12.2023	ETS/DI-69	71.3	35.8	10.8	25.2	0.73
22	18.12.2023	ETS/DI-70	74.2	36.6	11.7	25.9	0.63
23	22.12.2023	ETS/DI-71	72.9	32.4	9.8	23.1	0.88
24	25.12.2023	ETS/DI-72	76.2	31.0	11.4	24.9	0.50
Minimum			69.7	31.0	8.2	22.5	0.32
Maximum			78.9	43.7	14.5	31.6	0.88
Average			74.1	35.9	11.0	24.9	0.61
98 PERCENTILE			78.7	41.9	13.5	30.0	0.88

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

Quality Manager

AUTHORIZED SIGNATORY

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/991-24/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023
Analysis End Date : 30.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-4 BARWA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-73	64.7	34.4	8.9	17.9	0.29
2	07.10.2023	ETS/DI-74	72.5	35.1	9.9	18.9	0.26
3	10.10.2023	ETS/DI-75	70.3	36.1	11.7	17.2	0.37
4	14.10.2023	ETS/DI-76	74.4	37.8	10.8	18.0	0.47
5	17.10.2023	ETS/DI-77	70.8	33.7	10.2	19.7	0.34
6	21.10.2023	ETS/DI-78	68.8	34.2	13.5	17.2	0.54
7	24.10.2023	ETS/DI-79	75.2	34.7	12.9	16.2	0.67
8	28.10.2023	ETS/DI-80	70.8	31.7	11.7	17.2	0.57
9	03.11.2023	ETS/DI-81	66.8	30.9	11.3	18.0	0.62
10	06.11.2023	ETS/DI-82	67.3	27.6	11.9	18.9	0.61
11	10.11.2023	ETS/DI-83	69.7	27.8	10.9	20.0	0.72
12	13.11.2023	ETS/DI-84	66.9	30.2	11.7	20.8	0.56
13	17.11.2023	ETS/DI-85	65.8	32.8	11.2	21.4	0.54
14	20.11.2023	ETS/DI-86	68.2	35.1	10.3	20.0	0.52
15	24.11.2023	ETS/DI-87	70.9	35.3	8.9	19.0	0.65
16	27.11.2023	ETS/DI-88	69.1	34.5	9.5	18.1	0.61
17	03.12.2023	ETS/DI-89	67.4	34.9	10.1	19.0	0.75
18	06.12.2023	ETS/DI-90	66.5	36.3	11.2	19.7	0.71
19	10.12.2023	ETS/DI-91	72.3	37.3	12.0	21.2	0.76
20	13.12.2023	ETS/DI-92	76.1	36.0	10.7	19.7	0.27
21	16.12.2023	ETS/DI-93	67.3	34.5	9.3	19.0	0.54
22	20.12.2023	ETS/DI-94	70.1	35.6	10.2	18.0	0.74
23	23.12.2023	ETS/DI-95	68.9	31.4	10.8	18.9	0.42
24	27.12.2023	ETS/DI-96	71.9	30.0	11.3	20.6	0.52
Minimum			64.7	27.6	8.9	16.2	0.26
Maximum			76.1	37.8	13.5	21.4	0.76
Average			69.7	33.7	10.9	18.9	0.54
98 PERCENTILE			75.7	37.6	13.2	21.3	0.76

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO : ETS/991-25/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-5 DHAMRAPUR
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-97	67.2	32.6	8.9	19.0	0.37
2	04.10.2023	ETS/DI-98	69.1	33.3	8.2	13.7	0.41
3	09.10.2023	ETS/DI-99	66.9	34.2	9.5	18.1	0.37
4	12.10.2023	ETS/DI-100	70.9	33.2	13.2	20.4	0.42
5	15.10.2023	ETS/DI-101	67.4	32.0	7.9	17.4	0.36
6	18.10.2023	ETS/DI-102	65.5	32.4	12.0	18.3	0.48
7	22.10.2023	ETS/DI-103	70.4	32.9	11.0	19.3	0.57
8	25.10.2023	ETS/DI-104	67.4	30.1	10.4	20.0	0.53
9	01.11.2023	ETS/DI-105	63.7	29.4	10.8	20.2	0.44
10	04.11.2023	ETS/DI-106	64.2	26.4	13.0	19.5	0.58
11	08.11.2023	ETS/DI-107	66.5	28.5	10.1	18.3	0.62
12	11.11.2023	ETS/DI-108	63.8	28.8	10.8	19.3	0.64
13	15.11.2023	ETS/DI-109	62.8	31.1	8.9	20.1	0.44
14	18.11.2023	ETS/DI-110	64.9	33.3	10.2	19.4	0.42
15	23.11.2023	ETS/DI-111	67.5	33.5	11.8	20.2	0.51
16	27.11.2023	ETS/DI-112	65.9	32.7	12.4	20.3	0.48
17	01.12.2023	ETS/DI-113	64.2	33.0	10.3	18.3	0.76
18	04.12.2023	ETS/DI-114	63.3	34.3	10.8	20.7	0.77
19	08.12.2023	ETS/DI-115	68.8	32.7	11.1	23.0	0.68
20	11.12.2023	ETS/DI-116	63.2	34.1	10.1	19.2	0.56
21	15.12.2023	ETS/DI-117	64.2	32.8	10.9	20.2	0.81
22	18.12.2023	ETS/DI-118	66.8	33.7	10.1	21.0	0.46
23	22.12.2023	ETS/DI-119	74.1	29.9	11.7	20.0	0.57
24	25.12.2023	ETS/DI-120	75.2	28.6	11.6	18.3	0.84
Minimum			62.8	26.4	7.9	13.7	0.36
Maximum			75.2	34.3	13.2	23.0	0.84
Average			66.9	31.7	10.7	19.3	0.55
98 PERCENTILE			74.7	34.3	13.1	22.1	0.82

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO : ETS/991-26/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023

Analysis End Date : 30.12.2023

Sampling Done By : ETS STAFF

Sampling Location : AAQ-6 DURGA MANDIR, BIRANCHI

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-121	56.8	38.7	11.7	19.8	0.52
2	07.10.2023	ETS/DI-122	65.7	39.5	11.0	18.9	0.74
3	10.10.2023	ETS/DI-123	63.6	40.7	11.8	21.9	0.65
4	14.10.2023	ETS/DI-124	67.4	39.4	12.7	22.8	0.74
5	17.10.2023	ETS/DI-125	68.5	44.7	12.0	23.8	0.69
6	21.10.2023	ETS/DI-126	62.4	38.5	9.9	22.8	0.55
7	24.10.2023	ETS/DI-127	66.9	39.0	10.9	25.9	0.56
8	28.10.2023	ETS/DI-128	64.2	35.7	9.9	32.2	0.44
9	03.11.2023	ETS/DI-129	60.6	34.9	12.8	27.9	0.68
10	06.11.2023	ETS/DI-130	61.0	31.4	12.0	21.8	0.61
11	10.11.2023	ETS/DI-131	63.3	31.6	11.0	20.1	0.48
12	13.11.2023	ETS/DI-132	60.7	34.3	10.2	22.7	0.56
13	17.11.2023	ETS/DI-133	59.8	37.0	11.7	20.9	0.39
14	20.11.2023	ETS/DI-134	61.9	39.5	12.0	21.8	0.58
15	24.11.2023	ETS/DI-135	64.3	39.7	9.9	23.0	0.83
16	27.11.2023	ETS/DI-136	62.7	38.8	10.6	19.9	0.57
17	03.12.2023	ETS/DI-137	61.1	41.9	11.9	20.8	0.60
18	06.12.2023	ETS/DI-138	60.4	40.8	12.8	20.0	0.61
19	10.12.2023	ETS/DI-139	65.5	38.8	13.4	22.1	0.67
20	13.12.2023	ETS/DI-140	60.2	40.6	14.1	19.8	0.40
21	16.12.2023	ETS/DI-141	61.0	38.9	13.0	22.4	0.60
22	20.12.2023	ETS/DI-142	63.5	40.0	11.8	21.0	0.57
23	23.12.2023	ETS/DI-143	62.5	35.5	13.0	20.0	0.64
24	27.12.2023	ETS/DI-144	65.1	34.1	12.1	21.4	0.54
Minimum			56.8	31.4	9.9	18.9	0.39
Maximum			68.5	44.7	14.1	32.2	0.83
Average			62.9	38.1	11.8	22.2	0.58
98 PERCENTILE			68.0	43.4	13.8	30.2	0.79

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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Formats of ETS/QM/FR-02 Issue No. 03 Date 01.04.2019, Amd. No. 04 Date 01.04.2019

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/991-27/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-7 SIHNAULA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-145	59.2	33.3	8.8	27.6	0.29
2	04.10.2023	ETS/DI-146	68.3	33.9	8.2	24.7	0.33
3	09.10.2023	ETS/DI-147	66.2	34.8	9.7	31.6	0.30
4	12.10.2023	ETS/DI-148	70.0	33.8	10.3	32.8	0.34
5	15.10.2023	ETS/DI-149	66.6	32.6	11.1	34.5	0.29
6	18.10.2023	ETS/DI-150	64.8	33.0	9.7	32.0	0.39
7	22.10.2023	ETS/DI-151	69.5	33.5	10.6	33.4	0.45
8	25.10.2023	ETS/DI-152	66.7	30.8	9.7	34.2	0.43
9	01.11.2023	ETS/DI-153	63.2	30.1	10.7	33.3	0.35
10	04.11.2023	ETS/DI-154	63.5	27.3	9.9	30.0	0.47
11	08.11.2023	ETS/DI-155	65.8	27.4	11.5	31.7	0.49
12	11.11.2023	ETS/DI-156	63.3	29.5	9.6	33.4	0.51
13	15.11.2023	ETS/DI-157	62.2	31.8	9.0	34.2	0.35
14	18.11.2023	ETS/DI-158	64.4	36.5	9.9	33.4	0.34
15	23.11.2023	ETS/DI-159	66.8	34.1	9.7	34.2	0.41
16	27.11.2023	ETS/DI-160	65.2	33.1	10.8	28.4	0.39
17	01.12.2023	ETS/DI-161	63.6	37.4	12.0	30.2	0.60
18	04.12.2023	ETS/DI-162	62.8	35.0	9.7	29.3	0.62
19	08.12.2023	ETS/DI-163	68.0	33.3	11.8	30.4	0.55
20	11.12.2023	ETS/DI-164	62.6	34.7	11.5	34.2	0.45
21	15.12.2023	ETS/DI-165	63.5	33.4	9.9	33.4	0.64
22	18.12.2023	ETS/DI-166	66.1	34.2	9.0	27.7	0.37
23	22.12.2023	ETS/DI-167	64.9	30.6	11.1	31.6	0.46
24	25.12.2023	ETS/DI-168	67.7	29.3	9.8	32.0	0.67
Minimum			59.2	27.3	8.2	24.7	0.29
Maximum			70.0	37.4	12.0	34.5	0.67
Average			65.2	32.6	10.2	31.6	0.44
98 PERCENTILE			69.8	37.0	11.8	34.4	0.66

****End of Test Report****

CHECKED BY
RIRNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/991-26/10/2023 DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Analysis Start Date	:	07.10.2023
Analysis End Date	:	30.12.2023
Sampling Done By	:	ETS STAFF
Sampling Location	:	AAQ-8 BHATUAHWA
Sampling Method	:	ETS/STP/AIR-01
Sampling Machine Placed At Height	:	1.5 MTR. (FROM GROUND)
Weather Condition	:	CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-169	77.4	43.3	13.1	25.7	0.42
2	07.10.2023	ETS/DI-170	75.9	44.1	14.5	27.1	0.59
3	10.10.2023	ETS/DI-171	75.8	45.1	16.1	30.1	0.52
4	14.10.2023	ETS/DI-172	80.1	44.0	14.8	26.1	0.59
5	17.10.2023	ETS/DI-173	81.0	42.5	13.8	24.8	0.47
6	21.10.2023	ETS/DI-174	74.3	43.0	12.0	22.3	0.44
7	24.10.2023	ETS/DI-175	79.5	43.6	13.1	26.0	0.45
8	28.10.2023	ETS/DI-176	76.4	40.2	14.5	20.7	0.35
9	03.11.2023	ETS/DI-177	72.5	39.5	16.1	23.1	0.52
10	06.11.2023	ETS/DI-178	79.0	35.9	16.8	31.2	0.46
11	10.11.2023	ETS/DI-179	82.7	46.6	16.1	25.8	0.39
12	13.11.2023	ETS/DI-180	72.6	38.6	14.8	27.2	0.45
13	17.11.2023	ETS/DI-181	71.4	41.5	13.1	28.5	0.32
14	20.11.2023	ETS/DI-182	73.7	44.1	13.7	30.3	0.46
15	24.11.2023	ETS/DI-183	76.5	44.3	14.5	31.3	0.66
16	27.11.2023	ETS/DI-184	74.7	43.4	12.6	32.3	0.46
17	03.12.2023	ETS/DI-185	72.9	43.8	13.3	30.5	0.48
18	06.12.2023	ETS/DI-186	66.7	45.4	14.8	29.9	0.49
19	10.12.2023	ETS/DI-187	77.9	43.4	15.8	32.3	0.46
20	13.12.2023	ETS/DI-188	70.4	45.0	17.6	32.9	0.32
21	16.12.2023	ETS/DI-189	72.8	43.5	15.7	31.6	0.48
22	20.12.2023	ETS/DI-190	75.7	44.5	15.1	30.2	0.46
23	23.12.2023	ETS/DI-191	74.4	40.0	14.1	28.5	0.51
24	27.12.2023	ETS/DI-192	77.5	38.4	16.8	26.4	0.43
Minimum			66.7	35.9	12.0	20.7	0.32
Maximum			82.7	46.6	17.6	32.9	0.66
Average			75.5	42.7	14.7	28.1	0.47
98 PERCENTILE			81.9	46.0	17.3	32.6	0.63

****End of Test Report****

CHECKED BY : PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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ISO 45001

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TEST REPORT

TEST REPORT NO: ETS/991-29/05/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-991-29
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-1 PROJECT SITE
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	70.3	IS:2720 (Pt-4)
3.	Silt	%	16.5	IS:2720 (Pt-4)
4.	Clay	%	13.2	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	--	7.80	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	--	1.21	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	287.3	IS:14767
8.	Water Holding Capacity (WHC)	%	34.2	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	124	APHA-3125B
10.	Calcium (Ca)	mg/kg	1079.0	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	485.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.37	IS 2366 (Part-4)
13.	Total Nitrogen (N)	mg/kg	157.1	APHA, Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	56.6	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	282.2	APHA-3125B
16.	Organic Matter	%	0.93	IS: 2720 (P-22)
17.	Organic Carbon	%	1.21	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.86	IS:3025(P-24)
19.	Porosity	%	17.12	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.70	ASTM 9214

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY

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ISO 45001

TEST REPORT

TEST REPORT NO: ETS/991-30/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-991-30
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-2 BAJRA
Sampling Quantity : 2 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	65.1	IS:2720 (Pt-4)
3.	Silt	%	23.3	IS:2720 (Pt-4)
4.	Clay	%	11.6	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.37	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	..	1.56	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	319.3	IS:14767
8.	Water Holding Capacity (WHC)	%	31.52	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	146	APHA-3125B
10.	Calcium (Ca)	mg/kg	1020.3	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	482.6	ETS/STP/SOIL-08
12.	Bulk Density	g/cm³	1.36	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	168.7	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	40.8	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	238.8	APHA-3125B
16.	Organic Matter	%	1.18	IS : 2720 (P-22)
17.	Organic Carbon	%	1.38	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.90	IS:3025(P-24)
19.	Porosity	%	26.18	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.56	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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ISO 45001

TEST REPORT

TEST REPORT NO: ETS/991-31/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-991-31
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-3 PADRAUN
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	63.3	IS:2720 (Pt-4)
3.	Silt	%	28.1	IS:2720 (Pt-4)
4.	Clay	%	08.6	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	--	7.95	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	--	1.78	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	343.0	IS:14767
8.	Water Holding Capacity (WHC)	%	38.01	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	138	APHA-3125B
10.	Calcium (Ca)	mg/kg	1073.3	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	471.8	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.77	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	244.3	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	51.1	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	387.1	APHA-3125B
16.	Organic Matter	%	1.43	IS : 2720 (P-22)
17.	Organic Carbon	%	1.55	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.67	IS:3025(P-24)
19.	Porosity	%	21.30	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.90	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO: ETS/991-32/05/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-991-32
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-4 BARWA
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	58.6	IS:2720 (Pt-4)
3.	Silt	%	23.0	IS:2720 (Pt-4)
4.	Clay	%	18.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	--	7.44	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	--	1.38	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	328.0	IS:14767
8.	Water Holding Capacity(WHC)	%	35.54	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	139	APHA-3125B
10.	Calcium (Ca)	mg/kg	1293.9	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	503.4	ETS/STP/SOIL-08
12.	Bulk Density	g/cm³	1.27	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	168.8	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	56.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	333.2	APHA-3125B
16.	Organic Matter	%	1.09	IS : 2720 (P-22)
17.	Organic Carbon	%	1.35	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.28	IS:3025(P-24)
19.	Porosity	%	20.16	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.89	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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ISO 45001

TEST REPORT

TEST REPORT NO: ETS/991-33/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-991-33
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-5 DHAMRAPUR
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	56.1	IS:2720 (Pt-4)
3.	Silt	%	23.4	IS:2720 (Pt-4)
4.	Clay	%	20.5	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.60	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	..	1.25	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	322.2	IS:14767
8.	Water Holding Capacity (WHC)	%	35.23	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	165	APHA-3125B
10.	Calcium (Ca)	mg/kg	1121.1	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	462.5	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.14	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	171.5	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	51.2	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	296.6	APHA-3125B
16.	Organic Matter	%	0.89	IS : 2720 (P-22)
17.	Organic Carbon	%	1.58	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.38	IS:3025(P-24)
19.	Porosity	%	22.96	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.79	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Note:-
1. Test reports without LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if not raised within 7 days of issue.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 45001

TEST REPORT

TEST REPORT NO: ETS/991-34/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-991-34
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-6 DURGA MANDIR, BIRANCHI
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	60.7	IS:2720 (Pt-4)
3.	Silt	%	26.2	IS:2720 (Pt-4)
4.	Clay	%	13.1	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	--	7.57	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	--	1.29	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	305.0	IS:14767
8.	Water Holding Capacity (WHC)	%	36.26	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	131	APHA-3125B
10.	Calcium (Ca)	mg/kg	1145.8	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	515.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm³	1.46	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	166.9	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	38.8	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	244.5	APHA-3125B
16.	Organic Matter	%	0.99	IS: 2720 (P-22)
17.	Organic Carbon	%	1.29	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.98	IS:3025(P-24)
19.	Porosity	%	18.18	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.74	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Note:-
1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after [illegible]
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
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TEST REPORT

TEST REPORT NO: ETS/991-35/05/2023 DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-991-35
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-7 SIHNAULA
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
22.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
23.	Sand	%	61.1	IS:2720 (Pt-4)
24.	Silt	%	27.6	IS:2720 (Pt-4)
25.	Clay	%	11.3	IS:2720 (Pt-4)
26.	pH (1:2 Suspension)	..	7.80	IS:2720 (Pt-26)
27.	Sodium Absorption Ratio (SAR)*	..	1.75	ETS/STP/SOIL-16
28.	Electrical Conductivity (1:2)	µmho/cm	336.2	IS:14767
29.	Water Holding Capacity (WHC)	%	37.18	IS 2720 (Part-2)
30.	Sodium (Na)	mg/kg	135	APHA-3125B
31.	Calcium (Ca)	mg/kg	1052.1	IS 2720 (Part-23)
32.	Magnesium (Mg)	mg/kg	462.6	ETS/STP/SOIL-08
33.	Bulk Density	g/cm³	1.74	IS 2386 (Part-4)
34.	Total Nitrogen (N)	mg/kg	239.5	APHA,Pt 4500:(N)
35.	Phosphorus (PO4)	mg/kg	69.7	ETS/STP/SOIL-19
36.	Potassium (K)	mg/kg	379.5	APHA-3125B
37.	Organic Matter	%	1.40	IS : 2720 (P-22)
38.	Organic Carbon	%	1.51	BS 1377 -3)
39.	Sulphate as (SO_4)	mg/kg	1.63	IS:3025(P-24)
40.	Porosity	%	20.88	IS 13030
41.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
42.	Fluoride	mg/kg	0.88	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Note:-
1. Test reports without ink signature & LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if not received within 07 days of issue. Format No. ETS/LAB/02 Issued No. 06 Date 01.04.2019, Amd. No. 04 Date 01.04.2019
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ETS-LAB

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TEST REPORT

TEST REPORT NO: ETS/991-36/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON MANIYARI RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-991-36
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-8 BHATUAHWA
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
22.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
23.	Sand	%	52.0	IS:2720 (Pt-4)
24.	Silt	%	22.3	IS:2720 (Pt-4)
25.	Clay	%	15.7	IS:2720 (Pt-4)
26.	pH (1:2 Suspension)	..	7.56	IS:2720 (Pt-26)
27.	Sodium Absorption Ratio (SAR)*	..	1.70	ETS/STP/SOIL-16
28.	Electrical Conductivity (1:2)	µmho/cm	326.1	IS:14767
29.	Water Holding Capacity (WHC)	%	36.05	IS 2720 (Part-2)
30.	Sodium (Na)	mg/kg	131.8	APHA-3125B
31.	Calcium (Ca)	mg/kg	1263.5	IS 2720 (Part-23)
32.	Magnesium (Mg)	mg/kg	531.1	ETS/STP/SOIL-08
33.	Bulk Density	g/cm^3	1.69	IS 2386 (Part-4)
34.	Total Nitrogen (N)	mg/kg	232.3	APHA,Pt 4500:(N)
35.	Phosphorus (PO4)	mg/kg	67.6	ETS/STP/SOIL-19
36.	Potassium (K)	mg/kg	368.0	APHA-3125B
37.	Organic Matter	%	1.36	IS: 2720 (P-22)
38.	Organic Carbon	%	1.47	BS 1377 -3)
39.	Sulphate as (SO_4)	mg/kg	1.58	IS:3025(P-24)
40.	Porosity	%	20.25	IS 13030
41.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
42.	Fluoride	mg/kg	0.85	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-
1. Test reports without HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained after 30 days. Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

BIRAHA RIVER

ENVIRO-TECH SERVICES

An Analytical Laboratory

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ETS-LAB

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TEST REPORT

TEST REPORT NO : ETS/1501/12/2023

DATE OF REPORT : 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 10-12-2023
Analysis Start Date : 13-12-2023
Analysis End Date : 16-12-2023
Sample ID No : ETS/SL-1501
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-1 PACHRUKHA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed in : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.56	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	421.5	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	136.8	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	163.6	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	85.4	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	48.2	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	33.2	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.76	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.29	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	21.04	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.30	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	652.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Col/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
MD HUMRA
Quality Manage

Note:-
1. Test reports without HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if sample is not collected by us. Rev. No. 05 Date 01.04.2019, Amd. No. 04 Date 01.04.2019
4. Our liability is limited to invoice value only.
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ENVIRO-TECH SERVICES

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO: ETS/1502/12/2023

DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 10-12-2023
Analysis Start Date : 13-12-2023
Analysis End Date : 16-12-2023
Sample ID No : ETS/SL-1502
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-2 MAINATAD SIRHWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.78	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	434.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	143.3	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	186.1	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	78.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	45.9	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	35.8	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.52	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.27	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	21.01	30	100	IS:3025 (Pt-46)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.28	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	670.3	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
ANUPAM RAJ
Quality Manager

Note:-
1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if not informed within 15 days. Issued in Compliance of ISO 45001:2018, Amd. No. 04 Date 01.04.2019
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

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TEST REPORT

TEST REPORT NO : ETS/1503/12/2023

DATE OF REPORT : 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 15-12-2023
Analysis Start Date : 18-12-2023
Analysis End Date : 21-12-2023
Sample ID No : ETS/SL-1503
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-3 BARWA
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.42	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	472.1	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	148.8	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	192.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	80.3	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	47.2	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	12.6	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.59	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.27	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	25.48	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.28	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	680.4	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

Note:-
1. Test reports without ETS HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained after 7 days of issue of the report. Format No. ETS/LAB/F/03, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ENVIRO-TECH SERVICES

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ETS-LAB

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/1504/12/2023

DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-12-2023
Analysis Start Date	:	23-12-2023
Analysis End Date	:	26-12-2023
Sample ID No	:	ETS/SL-1504
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-4 PAKRI
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.95	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	506.8	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	171.5	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	203.0	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	106.3	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	50.8	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	13.5	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.78	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.29	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	23.25	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.30	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C_6H_5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	768.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Col/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

Notes:-

1. Test reports without signature & BIOLOGRAM are not issued by our laboratory.
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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/1505/12/2023 DATE OF REPORT : 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-12-2023
Analysis Start Date	:	23-12-2023
Analysis End Date	:	28-12-2023
Sample ID No	:	ETS/SL-1505
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-5 BAKULAHIYA
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	—	7.34	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	390.1	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	148.9	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	190.2	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	100.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	82.8	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	25.3	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.77	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.06	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.19	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	20.01	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.16	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	567.3	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	—	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	—	IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

Note:-

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TEST REPORT

TEST REPORT NO : ETS/1506/12/2023 DATE OF REPORT : 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1506
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-6 PACHRUKHI
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.52	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	414.2	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	115.2	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	180.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	89.2	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	51.6	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	30.3	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.12	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.42	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.18	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	26.06	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.42	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	617.4	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-
1. Test reports without HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained [illegible] after 7 days [illegible] of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1507/12/2023

DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1507
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-7 RAMPUR
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.12	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	295.8	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	123.1	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	160.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	102.1	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	55.6	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	30.3	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.94	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.27	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.20	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	16.87	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.24	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C_6H_5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	470.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
RD HUMRAJ
Quality Manager

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ETS-LAB

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1508/12/2023

DATE OF REPORT : 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1508
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-8 BEHARI
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.77	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	610.9	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	169.3	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	242.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	139.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	97.2	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	31.0	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.26	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.42	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.16	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	19.79	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.36	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	821.6	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

"End of Test Report"

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1509/12/2023

DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL/1509
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-9 DHUMATAND SHIV MANDIR
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	8.12	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	516.8	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	162.9	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	211.1	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	88.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	51.7	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	13.7	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.83	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.29	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	23.69	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.30	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C_6H_5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	783.1	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO: ETS/1510/12/2023

DATE OF REPORT: 10-01-2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-12-2023
Analysis Start Date : 23-12-2023
Analysis End Date : 26-12-2023
Sample ID No : ETS/SL-1510
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : GW-10 JOBDI
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	—	7.53	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	—	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	370.5	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	138.7	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO3)	mg/L	167.2	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	75.5	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	44.4	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	34.6	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.44	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.26	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.09	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D.	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	20.4	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.27	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C_6H_5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	672.3	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	—	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	—	IS:1622-1981

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
RAJ HUMRAJ
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1511/10/2023

DATE OF REPORT : 10.01.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	15.10.2023
Analysis Start Date	:	17.10.2023
Analysis End Date	:	20.10.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-1 BIRAHA (UP- STREAM)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.80	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.90	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	426.4	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	131.9	IS:3025 (Pt-23)
7.	Total Hardness (CaCO3)	mg/L	163.5	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	90.7	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	57.0	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	38.2	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.77	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.38	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.20	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	17.37	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc (Zn)	mg/L	0.68	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead (Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	680.2	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	16.5	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.61	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.53	APHA-5210
34.	E. Coli	MPN/100ml	256.9	IS:1622-1981
35.	Total Coliform	MPN/100ml	867.4	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	396.2	APHA-9221

"End of Test Report"

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1512/12/2023

DATE OF REPORT : 10.01.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 14.12.2023
Analysis Start Date : 16.12.2023
Analysis End Date : 19.12.2023
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER
Sampling Location : SW-2 BIRAHA (DOWN- STREAM)
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.92	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.90	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	438.7	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	188.7	IS:3025 (Pt-23)
7.	Total Hardness (CaCO3)	mg/L	202.2	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	77.2	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	52.3	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	39.0	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.69	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.42	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.40	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	24.9	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc (Zn)	mg/L	0.52	APHA-3111 (B)
22.	Cadmium (Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead (Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	710.4	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	22.66	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	5.09	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	3.88	APHA-5210
34.	E. Coli	MPN/100ml	280.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	1040.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	420.0	APHA-9221

For ENVIRO-TECH SERVICES

End of Test Report

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
ANAND KUMAR
Quality Manager

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An Analytical Laboratory

ETS-LAB

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ISO 45001

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

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TEST REPORT

TEST REPORT NO: ETS/1513/12/2023

DATE OF REPORT: 10.01.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	15.12.2023
Analysis Start Date	:	17.12.2023
Analysis End Date	:	20.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-3 POND (27°12'8.78"N 84°37'35.59"E)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.08	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.41	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	375.6	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	172.8	IS:3025 (Pt-23)
7.	Total Hardness (CaCO3)	mg/L	137.3	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	88.1	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	42.5	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	28.9	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	1.21	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.35	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.10	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	21.6	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc (Zn)	mg/L	0.49	APHA-3111 (B)
22.	Cadmium (Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead (Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	551.1	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	20.26	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.90	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.41	APHA-5210
34.	E. Coli	MPN/100ml	442.3	IS:1622-1981
35.	Total Coliform	MPN/100ml	1317.9	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	666.9	APHA-9221

For ENVIRO-TECH SERVICES

****End of Test Report****

CHECKED BY

PURNIMA SINGH

AUTHORIZED SIGNATORY

Quality Manager

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TEST REPORT

TEST REPORT NO : ETS/1514/12/2023

DATE OF REPORT : 10.01.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20.12.2023
Analysis Start Date	:	22.12.2023
Analysis End Date	:	25.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-4 CANAL (27° 9'10.93"N 84°37'26.92"E)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.37	IS:3025 (Pt-11)
4.	Turbidity	NTU	13.63	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	561.0	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	207.7	IS:3025 (Pt-23)
7.	Total Hardness (CaCO3)	mg/L	297.9	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	110.0	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	53.0	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	37.8	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.31	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.35	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.39	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	21.7	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc (Zn)	mg/L	0.50	APHA-3111 (B)
22.	Cadmium (Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead (Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	807.4	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	20.06	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.34	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.26	APHA-5210
34.	E. Coli	MPN/100ml	339.5	IS:1622-1981
35.	Total Coliform	MPN/100ml	1068.3	IS:1622-1981
36.	Fascal Coliform	MPN/100ml	529.2	APHA-9221

End of Test Report

CHECKED BY
PURNIMA SINGH

FOR ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
DR. HUMRAJ
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO: ETS/1515/12/2023

DATE OF REPORT: 10.01.2024

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20.12.2023
Analysis Start Date	:	22.12.2023
Analysis End Date	:	25.12.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	SW-5 POND, PARSAUNI
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.49	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.46	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	409.3	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	126.6	IS:3025 (Pt-23)
7.	Total Hardness (CaCO3)	mg/L	157.0	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	87.1	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	54.7	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	36.7	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	0.74	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.36	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.19	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	16.7	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc (Zn)	mg/L	0.65	APHA-3111 (B)
22.	Cadmium (Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead (Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	653.0	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	15.84	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.47	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.35	APHA-5210
34.	E. Coli	MPN/100ml	246.6	IS:1622-1981
35.	Total Coliform	MPN/100ml	832.7	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	360.4	APHA-9221

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
RAJ KUMARI
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1516/10/2023

DATE OF REPORT :10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-1 PROJECT SITE-1
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-01	72.7	36.0	11.2	26.9	0.56
2	04.10.2023	ETS/DI-02	69.6	41.0	14.3	28.6	0.80
3	09.10.2023	ETS/DI-03	68.7	40.1	11.9	24.4	0.71
4	12.10.2023	ETS/DI-04	69.4	43.0	10.7	25.3	0.80
5	15.10.2023	ETS/DI-05	71.2	37.6	15.0	28.7	0.64
6	18.10.2023	ETS/DI-06	74.1	32.7	13.1	28.0	0.59
7	22.10.2023	ETS/DI-07	78.5	47.1	11.0	25.5	0.61
8	25.10.2023	ETS/DI-08	75.3	45.2	15.3	28.5	0.47
9	01.11.2023	ETS/DI-09	71.8	47.7	13.9	28.4	0.71
10	04.11.2023	ETS/DI-10	76.8	35.4	13.0	28.0	0.65
11	08.11.2023	ETS/DI-11	84.0	41.1	14.1	26.1	0.53
12	11.11.2023	ETS/DI-12	80.6	36.9	11.6	26.6	0.61
13	15.11.2023	ETS/DI-13	84.9	39.6	12.6	25.8	0.43
14	18.11.2023	ETS/DI-14	72.9	37.6	13.4	28.2	0.62
15	23.11.2023	ETS/DI-15	73.4	33.2	14.7	25.4	0.89
16	27.11.2023	ETS/DI-16	79.2	34.8	15.6	25.9	0.62
17	01.12.2023	ETS/DI-17	85.7	31.5	10.8	25.0	0.65
18	04.12.2023	ETS/DI-18	83.6	31.8	11.8	27.7	0.67
19	08.12.2023	ETS/DI-19	81.5	32.0	11.9	26.3	0.62
20	11.12.2023	ETS/DI-20	76.0	34.3	9.4	27.8	0.43
21	15.12.2023	ETS/DI-21	79.1	36.6	10.7	29.7	0.65
22	18.12.2023	ETS/DI-22	70.7	32.3	13.0	31.0	0.62
23	22.12.2023	ETS/DI-23	69.4	31.6	12.0	25.1	0.59
24	25.12.2023	ETS/DI-24	71.9	35.1	14.8	28.1	0.58
Minimum			68.7	31.5	9.4	24.4	0.43
Maximum			85.7	47.7	15.6	31.0	0.89
Average			76.0	37.3	12.7	27.1	0.63
98 PERCENTILE			85.3	47.5	15.5	30.4	0.85

*****End of Test Report*****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
Quality Manager

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Format No. ETS/F-02 Rev. No. 04 Date 01.04.2019

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TEST REPORT

TEST REPORT NO : ETS/1517/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Analysis Start Date	:	07.10.2023
Analysis End Date	:	30.10.2023
Sampling Done By	:	ETS STAFF
Sampling Location	:	AAQ-2 PROJECT SITE 2
Sampling Method	:	ETS/STP/AIR-01
Sampling Machine Placed At Height	:	1.5 MTR. (FROM GROUND)
Weather Condition	:	CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-25	77.0	40.4	12.6	30.3	0.47
2	07.10.2023	ETS/DI-26	73.9	46.0	16.0	32.2	0.67
3	10.10.2023	ETS/DI-27	72.9	45.3	13.4	27.4	0.58
4	14.10.2023	ETS/DI-28	73.5	48.4	12.0	28.5	0.67
5	17.10.2023	ETS/DI-29	75.6	42.3	16.9	32.4	0.53
6	21.10.2023	ETS/DI-30	78.6	36.6	14.7	31.5	0.50
7	24.10.2023	ETS/DI-31	83.3	53.1	12.5	28.7	0.51
8	28.10.2023	ETS/DI-32	80.0	50.8	17.3	32.1	0.39
9	03.11.2023	ETS/DI-33	76.2	53.7	15.6	32.0	0.58
10	06.11.2023	ETS/DI-34	83.5	39.8	14.6	31.5	0.55
11	10.11.2023	ETS/DI-35	89.1	46.2	15.9	29.4	0.44
12	13.11.2023	ETS/DI-36	85.5	41.6	13.1	29.9	0.51
13	17.11.2023	ETS/DI-37	90.0	44.6	14.0	29.0	0.36
14	20.11.2023	ETS/DI-38	77.3	42.3	15.1	31.7	0.52
15	24.11.2023	ETS/DI-39	77.8	37.3	16.5	28.6	0.74
16	27.11.2023	ETS/DI-40	84.2	39.1	17.6	29.1	0.52
17	03.12.2023	ETS/DI-41	89.8	35.4	12.2	28.1	0.55
18	06.12.2023	ETS/DI-42	88.7	35.8	13.3	31.1	0.55
19	10.12.2023	ETS/DI-43	86.5	35.9	13.4	29.5	0.52
20	13.12.2023	ETS/DI-44	80.7	38.5	10.5	31.2	0.36
21	16.12.2023	ETS/DI-45	83.9	35.6	12.0	33.4	0.55
22	20.12.2023	ETS/DI-46	75.0	36.4	14.6	34.8	0.52
23	23.12.2023	ETS/DI-47	73.5	35.5	13.5	28.2	0.57
24	27.12.2023	ETS/DI-48	76.3	39.5	16.8	30.9	0.49
Minimum			72.9	35.4	10.5	27.4	0.36
Maximum			90.0	53.7	17.6	34.8	0.74
Average			80.5	41.6	14.3	30.5	0.53
98 PERCENTILE			89.9	53.4	17.4	34.2	0.71

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY
ANUMRAJ
Quality Manager

Note:-

1. Test reports without ETS LABOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested sample. Format No. ETS/F-03, Rev. No. 03 Date 01.04.2019, Amd. No. 04 Date 01.04.2019
3. No complaint will be entertained if received after 7 days of issue of test report.
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ENVIRO-TECH SERVICES

An Analytical Laboratory

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ISO 45001

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO : ETS/1518/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 10.10.2023

Analysis End Date : 02.01.2024

Sampling Done By : ETS STAFF

Sampling Location : AAQ-3 BARWA

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	05.10.2023	ETS/DI-49	63.3	31.3	9.8	23.5	0.33
2	09.10.2023	ETS/DI-50	60.7	35.7	12.5	25.0	0.38
3	12.10.2023	ETS/DI-51	59.9	35.0	10.4	21.2	0.34
4	16.10.2023	ETS/DI-52	60.5	37.5	9.2	22.1	0.39
5	19.10.2023	ETS/DI-53	62.0	32.7	13.2	25.0	0.33
6	23.10.2023	ETS/DI-54	64.6	28.6	11.4	24.4	0.44
7	26.10.2023	ETS/DI-55	68.4	41.0	9.6	22.3	0.51
8	30.10.2023	ETS/DI-56	65.7	39.4	13.4	24.9	0.49
9	05.11.2023	ETS/DI-57	62.6	41.6	12.1	24.8	0.39
10	08.11.2023	ETS/DI-58	68.7	30.8	11.4	24.4	0.53
11	12.11.2023	ETS/DI-59	73.2	35.8	12.2	22.8	0.55
12	15.11.2023	ETS/DI-60	70.2	32.3	10.2	23.1	0.57
13	19.11.2023	ETS/DI-61	74.0	34.5	10.9	22.5	0.39
14	21.11.2023	ETS/DI-62	63.4	32.7	11.6	24.5	0.39
15	25.11.2023	ETS/DI-63	63.9	28.9	12.8	22.2	0.46
16	29.11.2023	ETS/DI-64	69.1	30.4	13.6	22.5	0.44
17	05.12.2023	ETS/DI-65	74.7	27.4	9.5	21.8	0.68
18	08.12.2023	ETS/DI-66	72.8	29.5	10.3	24.1	0.70
19	12.12.2023	ETS/DI-67	71.0	32.9	10.4	22.9	0.62
20	15.12.2023	ETS/DI-68	68.3	35.6	8.2	24.2	0.51
21	18.12.2023	ETS/DI-69	68.9	28.0	9.2	25.9	0.72
22	22.12.2023	ETS/DI-70	61.7	30.1	11.4	27.0	0.41
23	25.12.2023	ETS/DI-71	60.6	27.5	10.4	21.9	0.52
24	29.12.2023	ETS/DI-72	62.7	30.6	12.9	24.4	0.75
Minimum			59.9	27.4	8.2	21.2	0.33
Maximum			74.7	41.6	13.6	27.0	0.75
Average			66.2	32.9	11.1	23.6	0.49
98 PERCENTILE			74.4	41.3	13.5	26.5	0.74

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
ANKUR RAJ
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1519/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023

Analysis End Date : 30.12.2023

Sampling Done By : ETS STAFF

Sampling Location : AAQ-4 PAKRI

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)

Weather Condition : CLEAR

Test Parameters			Particulate Meter(PM10)	Particulate Meter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-73	69.6	34.5	10.8	25.7	0.35
2	04.10.2023	ETS/DI-74	66.8	39.2	13.6	27.5	0.39
3	09.10.2023	ETS/DI-75	65.9	38.5	11.4	23.4	0.35
4	12.10.2023	ETS/DI-76	66.4	41.3	10.2	24.3	0.39
5	15.10.2023	ETS/DI-77	68.3	36.0	14.5	27.5	0.34
6	18.10.2023	ETS/DI-78	71.0	31.4	12.6	26.6	0.45
7	22.10.2023	ETS/DI-79	75.3	45.2	10.6	24.4	0.54
8	25.10.2023	ETS/DI-80	72.3	43.3	14.7	27.4	0.50
9	01.11.2023	ETS/DI-81	68.9	45.8	13.3	27.3	0.41
10	04.11.2023	ETS/DI-82	75.5	33.9	12.5	26.8	0.55
11	08.11.2023	ETS/DI-83	80.5	39.4	13.5	25.0	0.58
12	11.11.2023	ETS/DI-84	77.2	35.5	11.1	25.5	0.60
13	15.11.2023	ETS/DI-85	81.3	37.9	12.0	24.8	0.41
14	18.11.2023	ETS/DI-86	69.8	36.0	12.8	27.0	0.39
15	23.11.2023	ETS/DI-87	70.3	31.9	14.1	24.4	0.48
16	27.11.2023	ETS/DI-88	76.0	33.3	14.9	24.8	0.45
17	01.12.2023	ETS/DI-89	82.2	30.2	10.4	24.0	0.71
18	04.12.2023	ETS/DI-90	80.2	32.0	11.4	25.6	0.72
19	08.12.2023	ETS/DI-91	78.1	35.4	11.4	25.3	0.64
20	11.12.2023	ETS/DI-92	72.9	39.6	9.0	26.7	0.53
21	15.12.2023	ETS/DI-93	75.9	35.0	10.2	28.5	0.76
22	18.12.2023	ETS/DI-94	67.8	31.1	12.5	29.8	0.43
23	22.12.2023	ETS/DI-95	66.4	30.2	11.5	24.1	0.54
24	25.12.2023	ETS/DI-96	69.0	33.7	14.2	30.1	0.79
Minimum			65.9	30.2	9.0	23.4	0.34
Maximum			82.2	45.8	14.9	30.1	0.79
Average			72.8	36.3	12.2	26.1	0.51
98 PERCENTILE			81.8	45.5	14.8	30.0	0.78

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

ANUJ TOMARAJ
Quality Manager

Note:-

1. Test reports without E.T.S LAB HOLOGRAM are not issued by our laboratory.
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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1520/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-5 BAKULAHIYA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-97	64.9	32.1	10.0	24.0	0.49
2	07.10.2023	ETS/DI-98	62.2	36.6	12.7	25.6	0.70
3	10.10.2023	ETS/DI-99	61.4	35.9	10.7	21.8	0.61
4	14.10.2023	ETS/DI-100	62.0	38.5	9.5	22.6	0.70
5	17.10.2023	ETS/DI-101	63.6	33.5	13.4	25.6	0.55
6	21.10.2023	ETS/DI-102	66.2	29.3	11.8	25.0	0.52
7	24.10.2023	ETS/DI-103	70.2	42.1	9.9	22.8	0.53
8	28.10.2023	ETS/DI-104	67.4	40.3	13.8	25.5	0.41
9	03.11.2023	ETS/DI-105	64.2	42.7	12.5	25.4	0.61
10	06.11.2023	ETS/DI-106	70.4	31.6	11.6	25.0	0.57
11	10.11.2023	ETS/DI-107	75.0	36.7	12.6	23.3	0.45
12	13.11.2023	ETS/DI-108	72.0	33.0	10.3	23.8	0.53
13	17.11.2023	ETS/DI-109	75.9	35.4	11.2	23.0	0.37
14	20.11.2023	ETS/DI-110	65.2	33.5	12.0	25.2	0.55
15	24.11.2023	ETS/DI-111	65.5	29.8	13.1	22.7	0.78
16	27.11.2023	ETS/DI-112	70.9	31.2	14.0	23.2	0.54
17	03.12.2023	ETS/DI-113	76.7	28.1	9.6	22.3	0.56
18	06.12.2023	ETS/DI-114	74.7	29.5	10.6	24.7	0.57
19	10.12.2023	ETS/DI-115	72.9	36.6	10.7	23.5	0.54
20	13.12.2023	ETS/DI-116	68.0	33.9	8.3	24.8	0.38
21	16.12.2023	ETS/DI-117	70.7	32.0	9.5	26.6	0.56
22	20.12.2023	ETS/DI-118	63.2	30.2	11.6	27.8	0.54
23	23.12.2023	ETS/DI-119	62.0	28.2	10.7	22.5	0.60
24	27.12.2023	ETS/DI-120	64.3	31.4	13.3	24.9	0.51
Minimum			61.4	28.1	8.3	21.8	0.37
Maximum			76.7	42.7	14.0	27.8	0.78
Average			67.9	33.9	11.4	24.2	0.55
98 PERCENTILE			76.3	42.4	13.9	27.2	0.74

****End of Test Report****

CHECKED BY

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

ANKUR RAJ
Quality Manager

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1521/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 10.10.2023

Analysis End Date : 02.01.2024

Sampling Done By : ETS STAFF

Sampling Location : AAQ-6 PACHRUKHI

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	05.10.2023	ETS/DI-121	72.0	35.7	11.1	26.7	0.27
2	09.10.2023	ETS/DI-122	69.0	40.6	14.1	28.5	0.31
3	12.10.2023	ETS/DI-123	68.2	39.8	11.9	24.2	0.28
4	16.10.2023	ETS/DI-124	68.8	42.7	10.6	25.1	0.32
5	19.10.2023	ETS/DI-125	70.6	37.2	14.9	28.5	0.27
6	23.10.2023	ETS/DI-126	73.5	32.5	13.0	27.7	0.37
7	26.10.2023	ETS/DI-127	77.8	46.7	10.9	25.3	0.42
8	30.10.2023	ETS/DI-128	74.7	44.6	15.2	28.3	0.40
9	05.11.2023	ETS/DI-129	71.3	47.3	13.8	26.2	0.33
10	08.11.2023	ETS/DI-130	78.1	35.1	12.9	27.7	0.44
11	12.11.2023	ETS/DI-131	83.2	40.7	14.0	25.9	0.46
12	15.11.2023	ETS/DI-132	79.9	36.6	11.5	26.3	0.48
13	19.11.2023	ETS/DI-133	84.2	39.2	12.5	25.6	0.33
14	21.11.2023	ETS/DI-134	72.2	37.2	13.3	27.9	0.32
15	25.11.2023	ETS/DI-135	72.7	33.0	14.6	26.3	0.39
16	29.11.2023	ETS/DI-136	78.6	34.5	15.5	25.7	0.37
17	05.12.2023	ETS/DI-137	85.0	31.2	10.8	24.8	0.56
18	08.12.2023	ETS/DI-138	82.9	35.0	11.7	27.4	0.58
19	12.12.2023	ETS/DI-139	80.9	32.9	11.9	26.1	0.52
20	15.12.2023	ETS/DI-140	75.4	30.1	9.2	27.5	0.42
21	18.12.2023	ETS/DI-141	78.4	34.4	10.6	29.4	0.60
22	22.12.2023	ETS/DI-142	70.1	32.1	12.9	30.7	0.35
23	25.12.2023	ETS/DI-143	68.8	31.3	12.0	24.9	0.43
24	29.12.2023	ETS/DI-144	71.4	34.7	14.7	34.2	0.63
Minimum			68.2	30.1	9.2	24.2	0.27
Maximum			85.0	47.3	15.5	34.2	0.63
Average			75.3	36.9	12.6	27.2	0.41
98 PERCENTILE			84.6	47.0	15.4	32.6	0.62

****End of Test Report****

CHECKED BY

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Quality Manager

Note:-

1. Test reports without HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested sample. Format No. ETS/QMS/F-42 Revision No. 01 Date 01.04.2019, Amd. No. 04 Date 01.04.2019
3. No complaint will be entertained if received after 7 days of issue of test report.
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An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1522/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 05.10.2023
Analysis End Date : 28.12.2023
Sampling Done By : ETS STAFF
Sampling Location : AAQ-7 RAMPUR
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	01.10.2023	ETS/DI-145	59.4	29.5	9.2	22.0	0.39
2	04.10.2023	ETS/DI-146	57.0	33.5	11.7	23.4	0.55
3	09.10.2023	ETS/DI-147	56.3	32.9	9.8	19.9	0.49
4	12.10.2023	ETS/DI-148	66.7	35.2	8.8	20.7	0.55
5	15.10.2023	ETS/DI-149	68.2	30.7	12.3	23.5	0.44
6	18.10.2023	ETS/DI-150	60.6	26.8	10.7	22.8	0.41
7	22.10.2023	ETS/DI-151	64.2	38.5	9.1	20.9	0.42
8	25.10.2023	ETS/DI-152	61.7	37.0	12.5	23.3	0.33
9	01.11.2023	ETS/DI-153	58.8	39.0	11.3	23.2	0.49
10	04.11.2023	ETS/DI-154	64.4	28.9	10.6	22.8	0.45
11	08.11.2023	ETS/DI-155	68.7	33.6	11.5	21.4	0.37
12	11.11.2023	ETS/DI-156	65.9	30.3	9.5	21.7	0.42
13	15.11.2023	ETS/DI-157	69.4	32.4	10.2	21.1	0.30
14	18.11.2023	ETS/DI-158	59.6	30.7	11.0	23.0	0.43
15	23.11.2023	ETS/DI-159	60.0	27.2	12.0	20.8	0.62
16	27.11.2023	ETS/DI-160	64.8	28.4	12.8	21.2	0.43
17	01.12.2023	ETS/DI-161	70.1	25.8	8.9	20.5	0.45
18	04.12.2023	ETS/DI-162	68.4	26.0	9.7	22.6	0.46
19	08.12.2023	ETS/DI-163	66.7	26.2	9.8	21.5	0.43
20	11.12.2023	ETS/DI-164	62.3	26.6	7.6	22.7	0.30
21	15.12.2023	ETS/DI-165	64.7	26.2	8.6	24.4	0.45
22	18.12.2023	ETS/DI-166	57.8	26.5	10.6	25.4	0.43
23	22.12.2023	ETS/DI-167	56.7	25.8	9.9	20.6	0.48
24	25.12.2023	ETS/DI-168	56.9	28.7	12.1	24.3	0.40
Minimum			56.3	25.8	7.6	19.9	0.30
Maximum			70.1	39.0	12.8	25.4	0.62
Average			62.1	30.3	10.4	22.2	0.44
98 PERCENTILE			69.8	38.8	12.7	24.9	0.59

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
ADHIRAJ
Quality Manager

Notes:-

1. Test reports without HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested sample and tested as per Rule 31 of E(P) Rules, 1986 Amd. 01.04.2019, Amd. No. 04 Date 01.04.2019
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ETS-LAB

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TEST REPORT

TEST REPORT NO : ETS/1523/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023

Analysis End Date : 30.12.2023

Sampling Done By : ETS STAFF

Sampling Location : AAQ-8 BEHARI

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-169	57.6	28.5	8.9	21.3	0.48
2	07.10.2023	ETS/DI-170	55.2	32.5	11.4	22.7	0.26
3	10.10.2023	ETS/DI-171	54.6	31.9	9.5	19.3	0.75
4	14.10.2023	ETS/DI-172	55.0	34.1	8.4	20.1	0.48
5	17.10.2023	ETS/DI-173	56.4	29.7	12.0	22.7	0.43
6	21.10.2023	ETS/DI-174	58.8	26.0	10.4	22.1	0.71
7	24.10.2023	ETS/DI-175	62.2	37.3	8.7	20.3	0.74
8	28.10.2023	ETS/DI-176	59.8	35.8	12.2	22.6	0.55
9	03.11.2023	ETS/DI-177	57.0	37.8	11.0	22.5	0.82
10	06.11.2023	ETS/DI-178	62.4	28.1	10.3	22.1	0.84
11	10.11.2023	ETS/DI-179	66.6	32.5	11.1	20.7	0.67
12	13.11.2023	ETS/DI-180	63.9	29.3	9.3	21.1	0.65
13	17.11.2023	ETS/DI-181	67.3	31.4	9.9	20.5	0.34
14	20.11.2023	ETS/DI-182	57.7	29.7	10.6	22.3	0.43
15	24.11.2023	ETS/DI-183	58.1	26.4	11.7	20.2	0.71
16	27.11.2023	ETS/DI-184	62.9	27.5	12.4	20.6	0.34
17	03.12.2023	ETS/DI-185	68.0	25.0	8.6	19.9	0.70
18	06.12.2023	ETS/DI-186	66.2	25.2	9.4	22.0	0.71
19	10.12.2023	ETS/DI-187	64.6	25.3	9.5	20.9	0.75
20	13.12.2023	ETS/DI-188	60.3	25.8	7.4	22.1	0.39
21	16.12.2023	ETS/DI-189	62.6	25.4	8.4	23.5	0.75
22	20.12.2023	ETS/DI-190	56.1	25.6	10.3	24.6	0.82
23	23.12.2023	ETS/DI-191	56.0	25.0	9.6	20.0	0.61
24	27.12.2023	ETS/DI-192	57.0	27.8	11.9	22.9	0.44
Minimum			54.6	25.0	7.4	19.3	0.26
Maximum			68.0	37.8	12.4	24.6	0.84
Average			60.2	29.3	10.1	21.5	0.60
98 PERCENTILE			67.7	37.6	12.3	24.1	0.83

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Quality Manager

Notes:-

1. Test reports without ETS LAB HOLOGRAM [illegible] Rev. No. 03 Date 01.04.2019, And. No. 04 Date 01.04.2019 are invalid.
2. The results indicated only refer to the tested samples and listed applicable parameters.
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TEST REPORT

TEST REPORT NO : ETS/1524/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 10.10.2023

Analysis End Date : 02.01.2024

Sampling Done By : ETS STAFF

Sampling Location : AAQ-9 DHUMATAND SHIV MANDIR

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	05.10.2023	ETS/DI-193	55.9	27.6	8.6	20.7	0.83
2	09.10.2023	ETS/DI-194	53.5	31.5	11.0	22.1	0.69
3	12.10.2023	ETS/DI-195	52.9	30.9	9.1	18.7	0.66
4	16.10.2023	ETS/DI-196	53.3	33.1	8.2	19.4	0.69
5	19.10.2023	ETS/DI-197	54.8	28.9	11.7	22.1	0.33
6	23.10.2023	ETS/DI-198	57.0	25.2	10.1	21.5	0.49
7	26.10.2023	ETS/DI-199	60.4	36.3	8.5	19.7	0.33
8	30.10.2023	ETS/DI-200	57.9	34.8	11.9	22.0	0.42
9	05.11.2023	ETS/DI-201	55.3	36.8	10.7	22.0	0.59
10	08.11.2023	ETS/DI-202	60.6	27.2	10.0	21.5	0.69
11	12.11.2023	ETS/DI-203	64.6	31.6	10.8	20.1	0.83
12	15.11.2023	ETS/DI-204	61.9	28.4	8.9	20.5	0.57
13	19.11.2023	ETS/DI-205	65.3	30.5	9.7	19.9	0.69
14	21.11.2023	ETS/DI-206	66.0	28.9	10.3	21.7	0.30
15	25.11.2023	ETS/DI-207	56.4	25.5	11.4	19.6	0.42
16	29.11.2023	ETS/DI-208	61.1	26.6	12.1	20.0	0.59
17	05.12.2023	ETS/DI-209	66.0	24.2	8.3	19.2	0.33
18	08.12.2023	ETS/DI-210	64.3	24.4	9.0	21.3	0.76
19	12.12.2023	ETS/DI-211	62.6	24.6	9.1	20.3	0.50
20	15.12.2023	ETS/DI-212	58.5	25.0	7.3	21.4	0.39
21	18.12.2023	ETS/DI-213	60.9	24.7	8.2	22.8	0.69
22	22.12.2023	ETS/DI-214	54.3	24.9	10.0	23.9	0.59
23	25.12.2023	ETS/DI-215	53.3	24.3	9.3	19.3	0.83
24	29.12.2023	ETS/DI-216	55.4	27.0	11.5	26.9	0.47
Minimum			52.9	24.2	7.3	18.7	0.30
Maximum			66.0	36.8	12.1	26.9	0.83
Average			58.4	28.5	9.8	21.1	0.57
98 PERCENTILE			65.6	36.5	12.0	25.5	0.83

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and it is applicable for Rev. No. 03 Date 01.04.2019, Amd. No. 04 Date 01.04.2019
3. No complaint will be entertained if received after 7 days of issue of test report.
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TEST REPORT

TEST REPORT NO : ETS/1525/10/2023

DATE OF REPORT : 10.01.2024

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR,MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Analysis Start Date : 07.10.2023

Analysis End Date : 30.12.2023

Sampling Done By : ETS STAFF

Sampling Location : AAQ-10 JOBDI

Sampling Method : ETS/STP/AIR-01

Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	03.10.2023	ETS/DI-217	60.7	30.1	9.4	22.4	0.39
2	07.10.2023	ETS/DI-218	58.1	34.2	12.0	23.9	0.50
3	10.10.2023	ETS/DI-219	57.3	33.5	10.0	20.3	0.39
4	14.10.2023	ETS/DI-220	57.9	36.0	8.9	21.2	0.43
5	17.10.2023	ETS/DI-221	59.4	31.4	12.5	24.0	0.35
6	21.10.2023	ETS/DI-222	61.9	27.3	11.0	23.3	0.36
7	24.10.2023	ETS/DI-223	65.6	39.4	9.2	21.4	0.41
8	28.10.2023	ETS/DI-224	62.9	37.7	12.8	23.8	0.57
9	03.11.2023	ETS/DI-225	60.1	39.9	11.7	23.7	0.65
10	06.11.2023	ETS/DI-226	66.9	29.5	10.9	23.3	0.71
11	10.11.2023	ETS/DI-227	70.1	34.3	11.8	21.8	0.48
12	13.11.2023	ETS/DI-228	67.3	30.8	9.7	22.2	0.74
13	17.11.2023	ETS/DI-229	70.9	33.0	10.4	21.5	0.70
14	20.11.2023	ETS/DI-230	60.8	31.4	11.2	23.6	0.40
15	24.11.2023	ETS/DI-231	61.3	27.7	12.3	21.3	0.57
16	27.11.2023	ETS/DI-232	66.2	29.0	13.0	21.6	0.70
17	03.12.2023	ETS/DI-233	71.6	26.3	9.0	20.9	0.44
18	06.12.2023	ETS/DI-234	69.9	29.6	9.9	23.1	0.71
19	10.12.2023	ETS/DI-235	68.0	33.8	10.0	22.0	0.67
20	13.12.2023	ETS/DI-236	63.5	37.3	7.8	23.2	0.54
21	16.12.2023	ETS/DI-237	66.1	33.0	8.9	24.9	0.67
22	20.12.2023	ETS/DI-238	59.0	27.0	10.9	25.9	0.72
23	23.12.2023	ETS/DI-239	57.9	28.4	10.1	21.0	0.49
24	27.12.2023	ETS/DI-240	60.1	29.3	12.3	18.0	0.76
Minimum			57.3	26.3	7.8	18.0	0.35
Maximum			71.6	39.9	13.0	25.9	0.76
Average			63.4	32.0	10.7	22.4	0.56
98 PERCENTILE			71.3	39.7	12.9	25.4	0.75

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

SIDHUMRAJ
AUTHORIZED SIGNATORY
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are invalid. ETS/MTR/03, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019
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TEST REPORT

TEST REPORT NO : ETS/1526/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	10.12.2023
Monitoring Start Date	:	10.12.2023
Monitoring End Date	:	11.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-1 PROJECT SITE-1
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	51.5	55
2.	Noise Level Night Time	Leq :dB (A)	43.1	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-

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3. No complaint will be entertained if received after 7 days of issue of test report.
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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1527/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	12.12.2023
Monitoring Start Date	:	12.12.2023
Monitoring End Date	:	13.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-2 PROJECT SITE-2
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	53.8	55
2.	Noise Level Night Time	Leq :dB (A)	40.6	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
S.D HUMRAJ
Quality Manager

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3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1528/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	14.12.2023
Monitoring Start Date	:	14.12.2023
Monitoring End Date	:	15.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-3 BARWA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	46.3	50
2.	Noise Level Night Time	Leq :dB (A)	34.7	40

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

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TEST REPORT

TEST REPORT NO : ETS/1529/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	15.12.2023
Monitoring Start Date	:	15.12.2023
Monitoring End Date	:	16.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-4 GOVERNMENT PRIMARY SCHOOL MANJHARIYA
Category Of Area	:	SILENCE ZONE
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.3	50
2.	Noise Level Night Time	Leq :dB (A)	37.2	40

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
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TEST REPORT

TEST REPORT NO : ETS/1530/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	18.12.2023
Monitoring Start Date	:	18.12.2023
Monitoring End Date	:	19.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-5 BAKULAHIYA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	47.4	55
2.	Noise Level Night Time	Leq :dB (A)	38.1	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
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TEST REPORT

TEST REPORT NO : ETS/1531/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-6 PACHRUKHI
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	46.3	55
2.	Noise Level Night Time	Leq :dB (A)	37.6	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
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TEST REPORT

TEST REPORT NO : ETS/1532/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	20.12.2023
Monitoring Start Date	:	20.12.2023
Monitoring End Date	:	21.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-7 RAMPUR
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	50.8	55
2.	Noise Level Night Time	Leq :dB (A)	34.1	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
ASHOK RAJ
Quality Manager

Note:-
1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
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TEST REPORT

TEST REPORT NO : ETS/1533/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-8 BEHARI
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	45.8	55
2.	Noise Level Night Time	Leq :dB (A)	37.3	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
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TEST REPORT

TEST REPORT NO : ETS/1534/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	24.12.2023
Monitoring Start Date	:	24.12.2023
Monitoring End Date	:	25.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-9 DHUMATAND SHIV MANDIR
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
3.	Noise Level Day Time	Leq :dB (A)	52.4	55
4.	Noise Level Night Time	Leq :dB (A)	33.7	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
ADHIRAJ
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
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TEST REPORT

TEST REPORT NO: ETS/1535/12/2023

DATE OF REPORT: 10.01.2024

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Monitoring	:	20.12.2023
Monitoring Start Date	:	20.12.2023
Monitoring End Date	:	21.12.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NQ-10 JOBDI
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
3.	Noise Level Day Time	Leq :dB (A)	48.2	55
4.	Noise Level Night Time	Leq :dB (A)	36.3	45

Remark: Day time is reckoned in between 02.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 02.00 A.M.

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
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ISO 45001

TEST REPORT

TEST REPORT NO: ETS/1536/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1536
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-1 PROJECT SITE-1
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	70.4	IS:2720 (Pt-4)
3.	Silt	%	16.2	IS:2720 (Pt-4)
4.	Clay	%	13.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.16	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	..	1.51	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	349.9	IS:14767
8.	Water Holding Capacity (WHC)	%	34.5	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	159.5	APHA-3125B
10.	Calcium (Ca)	mg/kg	1017.5	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	562.5	ETS/STP/SOIL-06
12.	Bulk Density	g/cm^3	1.49	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	184.8	APHA, Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	44.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	261.6	APHA-3125B
16.	Organic Matter	%	1.30	IS: 2720 (P-22)
17.	Organic Carbon	%	1.84	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.18	IS:3025(P-24)
19.	Porosity	%	28.7	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.88	ASTM 9214

****End of Test Report****

For ENVIRO-TECH SERVICES

CHECKED BY
PURNIMA SINGH

AUTHORIZED SIGNATORY

Note:-
1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained after 30 days. Format No. F/QP-08/R-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ETS-LAB

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TEST REPORT

TEST REPORT NO: ETS/1537/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1537
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-2 PROJECT SITE 2
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	72.1	IS:2720 (Pt-4)
3.	Silt	%	17.5	IS:2720 (Pt-4)
4.	Clay	%	10.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	8.15	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	..	1.91	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	359.3	IS:14767
8.	Water Holding Capacity (WHC)	%	38.9	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	151.8	APHA-3125B
10.	Calcium (Ca)	mg/kg	1038.2	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	551.5	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.59	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	184.9	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	42.1	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	265.1	APHA-3125B
16.	Organic Matter	%	1.30	IS: 2720 (P-22)
17.	Organic Carbon	%	1.51	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.49	IS:3025(P-24)
19.	Porosity	%	22.1	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.98	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Ajit HUMRAJ
Quality Manager

Note:-
1. Test reports bearing no signature & HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained after 07 days from the date of report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ENVIRO-TECH SERVICES

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TEST REPORT

TEST REPORT NO: ETS/1538/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1538
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-3 BARWA
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	66.2	IS:2720 (Pt-4)
3.	Silt	%	21.3	IS:2720 (Pt-4)
4.	Clay	%	12.5	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.90	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	..	1.72	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	353.0	IS:14767
8.	Water Holding Capacity (WHC)	%	38.5	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	180.6	APHA-3125B
10.	Calcium (Ca)	mg/kg	1228.2	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	506.7	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.26	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	187.9	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	55.9	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	325.0	APHA-3125B
16.	Organic Matter	%	0.98	IS : 2720 (P-22)
17.	Organic Carbon	%	1.65	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.51	IS:3025(P-24)
19.	Porosity	%	25.1	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.76	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Quality Manager

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
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3. No complaint will be entertained after 07 days of issue of report.
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ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001

email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

ISO 45001

TEST REPORT

TEST REPORT NO: ETS/1539/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1539
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-4 PAKRI
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	63.3	IS:2720 (Pt-4)
3.	Silt	%	25.0	IS:2720 (Pt-4)
4.	Clay	%	11.7	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.75	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	..	1.41	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	334.3	IS:14767
8.	Water Holding Capacity (WHC)	%	39.7	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	143.7	APHA-3125B
10.	Calcium (Ca)	mg/kg	1255.3	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	564.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.34	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	182.8	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	65.6	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	267.9	APHA-3125B
16.	Organic Matter	%	1.08	IS: 2720 (P-22)
17.	Organic Carbon	%	1.41	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.16	IS:3025(P-24)
19.	Porosity	%	19.9	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.87	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ISO 45001

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TEST REPORT

TEST REPORT NO: ETS/1540/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1540
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-5 BAKULAHIYA
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	52.5	IS:2720 (Pt-4)
3.	Silt	%	30.5	IS:2720 (Pt-4)
4.	Clay	%	17.0	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	--	8.10	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	--	1.49	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	349.9	IS:14767
8.	Water Holding Capacity (WHC)	%	34.5	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	159.5	APHA-3125B
10.	Calcium (Ca)	mg/kg	1117.8	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	562.5	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.51	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	184.9	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	45.0	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	261.6	APHA-3125B
16.	Organic Matter	%	1.24	IS : 2720 (P-22)
17.	Organic Carbon	%	1.86	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.15	IS:3025(P-24)
19.	Porosity	%	28.1	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.65	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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ENVIRO-TECH SERVICES

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ETS-LAB

ISO 45001

TEST REPORT

TEST REPORT NO: ETS/1541/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1541
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-6 PACHRUKHI
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	60.3	IS:2720 (Pt-4)
3.	Silt	%	24.6	IS:2720 (Pt-4)
4.	Clay	%	15.1	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	--	8.12	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	--	1.90	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	359.3	IS:14767
8.	Water Holding Capacity (WHC)	%	38.1	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	151.6	APHA-3125B
10.	Calcium (Ca)	mg/kg	1116.8	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	551.5	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.61	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	184.8	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	62.5	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	365.4	APHA-3125B
16.	Organic Matter	%	1.26	IS: 2720 (P-22)
17.	Organic Carbon	%	1.50	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.49	IS:3025(P-24)
19.	Porosity	%	22.1	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.95	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO TECH SERVICES

AUTHORIZED SIGNATORY

RP SHUKLA
Quality Manager

Note:-
1. Test reports without LAB HOLOGRAM are not issued by our laboratory.
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ENVIRO-TECH SERVICES

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ISO 45001

TEST REPORT

TEST REPORT NO: ETS/1542/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1542
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-7 RAMPUR
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
22.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
23.	Sand	%	62.0	IS:2720 (Pt-4)
24.	Silt	%	25.3	IS:2720 (Pt-4)
25.	Clay	%	12.7	IS:2720 (Pt-4)
26.	pH (1:2 Suspension)	..	7.38	IS:2720 (Pt-26)
27.	Sodium Absorption Ratio (SAR)*	..	1.70	ETS/STP/SOIL-16
28.	Electrical Conductivity (1:2)	µmho/cm	352.5	IS:14767
29.	Water Holding Capacity (WHC)	%	39.0	IS 2720 (Part-2)
30.	Sodium (Na)	mg/kg	180.8	APHA-3125B
31.	Calcium (Ca)	mg/kg	1232.8	IS 2720 (Part-23)
32.	Magnesium (Mg)	mg/kg	506.0	ETS/STP/SOIL-08
33.	Bulk Density	g/cm³	1.32	IS 2386 (Part-4)
34.	Total Nitrogen (N)	mg/kg	192.5	APHA,Pt 4500:(N)
35.	Phosphorus (PO4)	mg/kg	56.5	ETS/STP/SOIL-19
36.	Potassium (K)	mg/kg	325.7	APHA-3125B
37.	Organic Matter	%	0.99	IS : 2720 (P-22)
38.	Organic Carbon	%	1.70	BS 1377 -3)
39.	Sulphate as (SO_4)	mg/kg	1.49	IS:3025(P-24)
40.	Porosity	%	25.4	IS 13030
41.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
42.	Fluoride	mg/kg	0.80	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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ENVIRO-TECH SERVICES

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ETS-LAB

ISO 45001

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email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063

TEST REPORT

TEST REPORT NO: ETS/1543/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1543
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-8 BEHARI
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
22.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
23.	Sand	%	58.3	IS:2720 (Pt-4)
24.	Silt	%	23.1	IS:2720 (Pt-4)
25.	Clay	%	18.6	IS:2720 (Pt-4)
26.	pH (1:2 Suspension)	---	7.75	IS:2720 (Pt-26)
27.	Sodium Absorption Ratio (SAR)*	%	1.40	ETS/STP/SOIL-16
28.	Electrical Conductivity (1:2)	µmho/cm	336.3	IS:14767
29.	Water Holding Capacity (WHC)	%	43.8	IS 2720 (Part-2)
30.	Sodium (Na)	mg/kg	138.9	APHA-3125B
31.	Calcium (Ca)	mg/kg	1253.2	IS 2720 (Part-23)
32.	Magnesium (Mg)	mg/kg	562.3	ETS/STP/SOIL-08
33.	Bulk Density	g/cm^3	1.36	IS 2386 (Part-4)
34.	Total Nitrogen (N)	mg/kg	172.5	APHA,Pt 4500:(N)
35.	Phosphorus (PO4)	mg/kg	45.0	ETS/STP/SOIL-19
36.	Potassium (K)	mg/kg	269.9	APHA-3125B
37.	Organic Matter	%	1.15	IS: 2720 (P-22)
38.	Organic Carbon	%	1.42	BS 1377 -3)
39.	Sulphate as (SO_4)	mg/kg	2.18	IS:3025(P-24)
40.	Porosity	%	16.8	IS 13030
41.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
42.	Fluoride	mg/kg	0.87	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

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ETS-LAB

ISO 45001

TEST REPORT

TEST REPORT NO: ETS/1544/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-1544
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SQ-9 DHUMATAND SHIV MANDIR
Sampling Quantity	:	2.0 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
43.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
44.	Sand	%	56.3	IS:2720 (Pt-4)
45.	Silt	%	27.4	IS:2720 (Pt-4)
46.	Clay	%	16.3	IS:2720 (Pt-4)
47.	pH (1:2 Suspension)	--	7.79	IS:2720 (Pt-26)
48.	Sodium Absorption Ratio (SAR)*	--	1.47	ETS/STP/SOIL-16
49.	Electrical Conductivity (1:2)	µmho/cm	319.4	IS:14767
50.	Water Holding Capacity (WHC)	%	39.4	IS 2720 (Part-2)
51.	Sodium (Na)	mg/kg	124.3	APHA-3125B
52.	Calcium (Ca)	mg/kg	1050.9	IS 2720 (Part-23)
53.	Magnesium (Mg)	mg/kg	510.3	ETS/STP/SOIL-08
54.	Bulk Density	g/cm³	1.41	IS 2386 (Part-4)
55.	Total Nitrogen (N)	mg/kg	225.1	APHA,Pt 4500:(N)
56.	Phosphorus (PO4)	mg/kg	47.6	ETS/STP/SOIL-19
57.	Potassium (K)	mg/kg	251.0	APHA-3125B
58.	Organic Matter	%	1.34	IS: 2720 (P-22)
59.	Organic Carbon	%	1.61	BS 1377 -3)
60.	Sulphate as (SO_4)	mg/kg	2.16	IS:3025(P-24)
61.	Porosity	%	25.8	IS 13030
62.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
63.	Fluoride	mg/kg	0.62	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY
Quality Manager

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ENVIRO-TECH SERVICES

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ETS-LAB

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ISO 45001

TEST REPORT

TEST REPORT NO: ETS/1545/05/2023

DATE OF REPORT: 10-01-2024

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
SAND GHAT UNIT NO.- 11 ON BIRAHA RIVER, MAUZA- PIPRA, MAHUI, BHATHUHWA, PAKRI, RAMPUR, BARWA, BLOCK-RAMNAGAR, MAINATAND, GONAHA, DISTRICT- WEST CHAMPARAN (BETTIAH), STATE - BIHAR

Date of Sampling : 20-05-2023
Analysis Start Date : 23-05-2023
Analysis End Date : 25-05-2023
Sample ID No : ETS/SL-1545
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : SQ-10 JOBDI
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
43.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
44.	Sand	%	61.2	IS:2720 (Pt-4)
45.	Silt	%	24.0	IS:2720 (Pt-4)
46.	Clay	%	14.8	IS:2720 (Pt-4)
47.	pH (1:2 Suspension)	..	7.95	IS:2720 (Pt-26)
48.	Sodium Absorption Ratio (SAR)*	..	1.34	ETS/STP/SOIL-16
49.	Electrical Conductivity (1:2)	µmho/cm	334.3	IS:14767
50.	Water Holding Capacity (WHC)	%	38.2	IS 2720 (Part-2)
51.	Sodium (Na)	mg/kg	134.6	APHA-3125B
52.	Calcium (Ca)	mg/kg	1077.6	IS 2720 (Part-23)
53.	Magnesium (Mg)	mg/kg	488.5	ETS/STP/SOIL-08
54.	Bulk Density	g/cm^3	1.31	IS 2386 (Part-4)
55.	Total Nitrogen (N)	mg/kg	188.0	APHA,Pt 4500:(N)
56.	Phosphorus [PO4)	mg/kg	53.7	ETS/STP/SOIL-19
57.	Potassium (K)	mg/kg	299.2	APHA-3125B
58.	Organic Matter	%	0.89	IS: 2720 (P-22)
59.	Organic Carbon	%	1.29	BS 1377 -3)
60.	Sulphate as (SO_4)	mg/kg	1.85	IS:3025(P-24)
61.	Porosity	%	25.9	IS 13030
62.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
63.	Fluoride	mg/kg	0.58	ASTM 9214

****End of Test Report****

CHECKED BY
PURNIMA SINGH

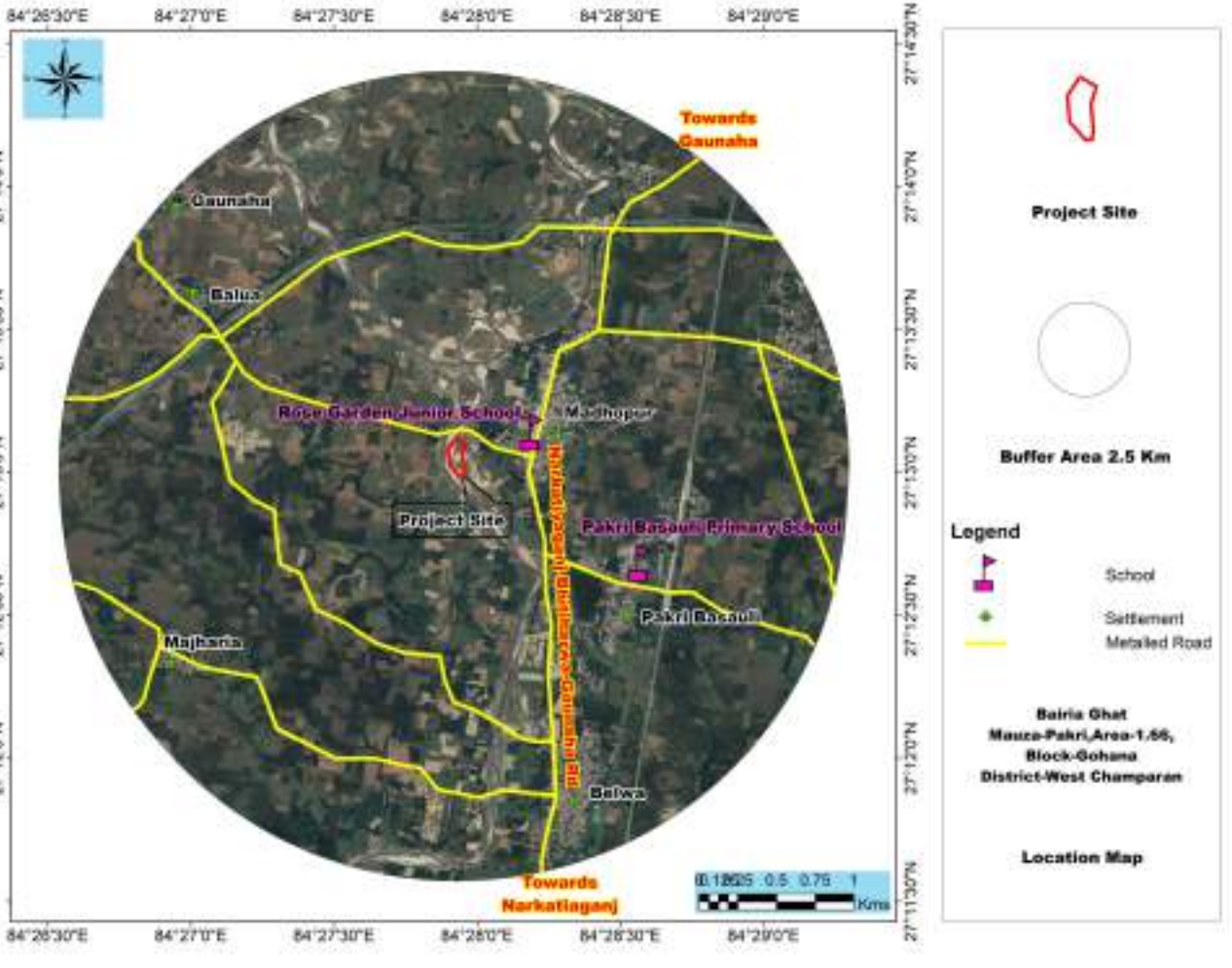
For ENVIRO-TECH SERVICES

AUTHORIZED SIGNATORY

Note:-
1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

Annexure –VIII

(2.5 Km Map showing Public Utility)



Project Site

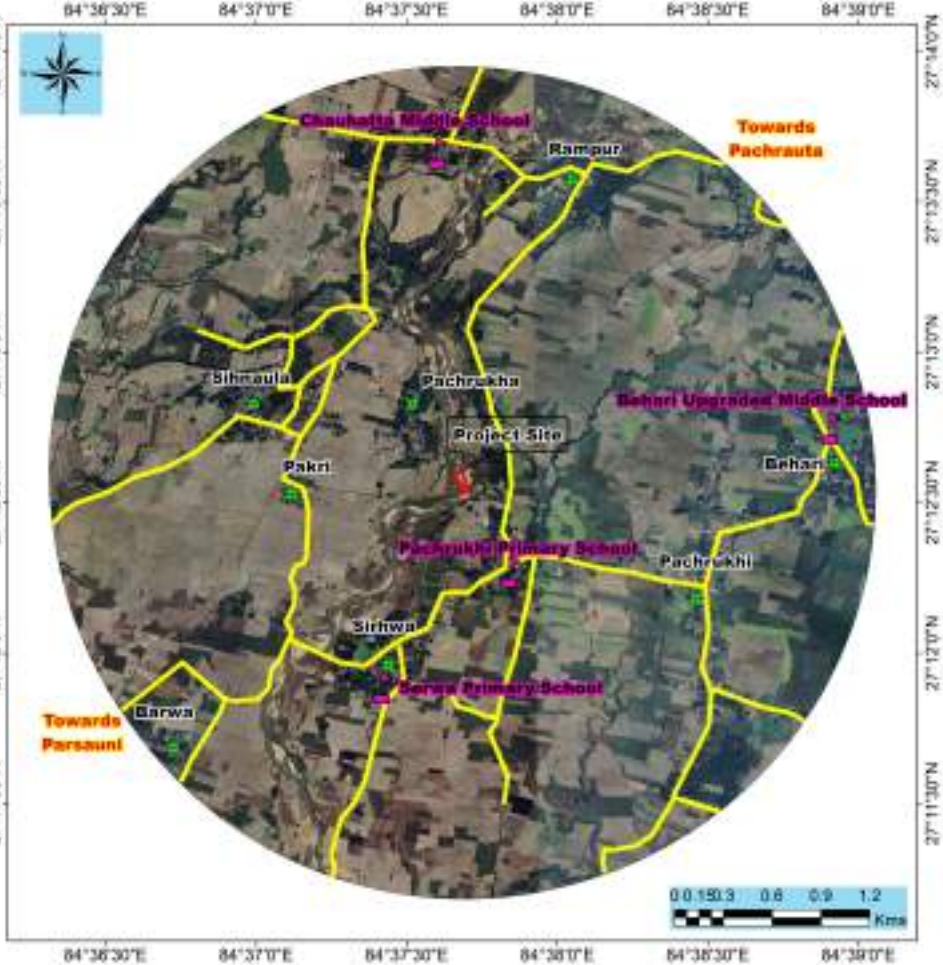
Buffer Area 2.5 Km

Legend

- School
- Settlement
- Metalled Road

Bairia Ghat
Mauza-Pakri,Area-1.66,
Block-Gohana
District-West Champaran

Location Map



Project Site

Buffer Area 2.5 Km

Legend

School

Settlement

Metalled Road

Pakri Ghat
Mauza-Rampur,Area-0.49 Ha,
Block-Mainatand
District-West Champaran

Location Map



Project Site

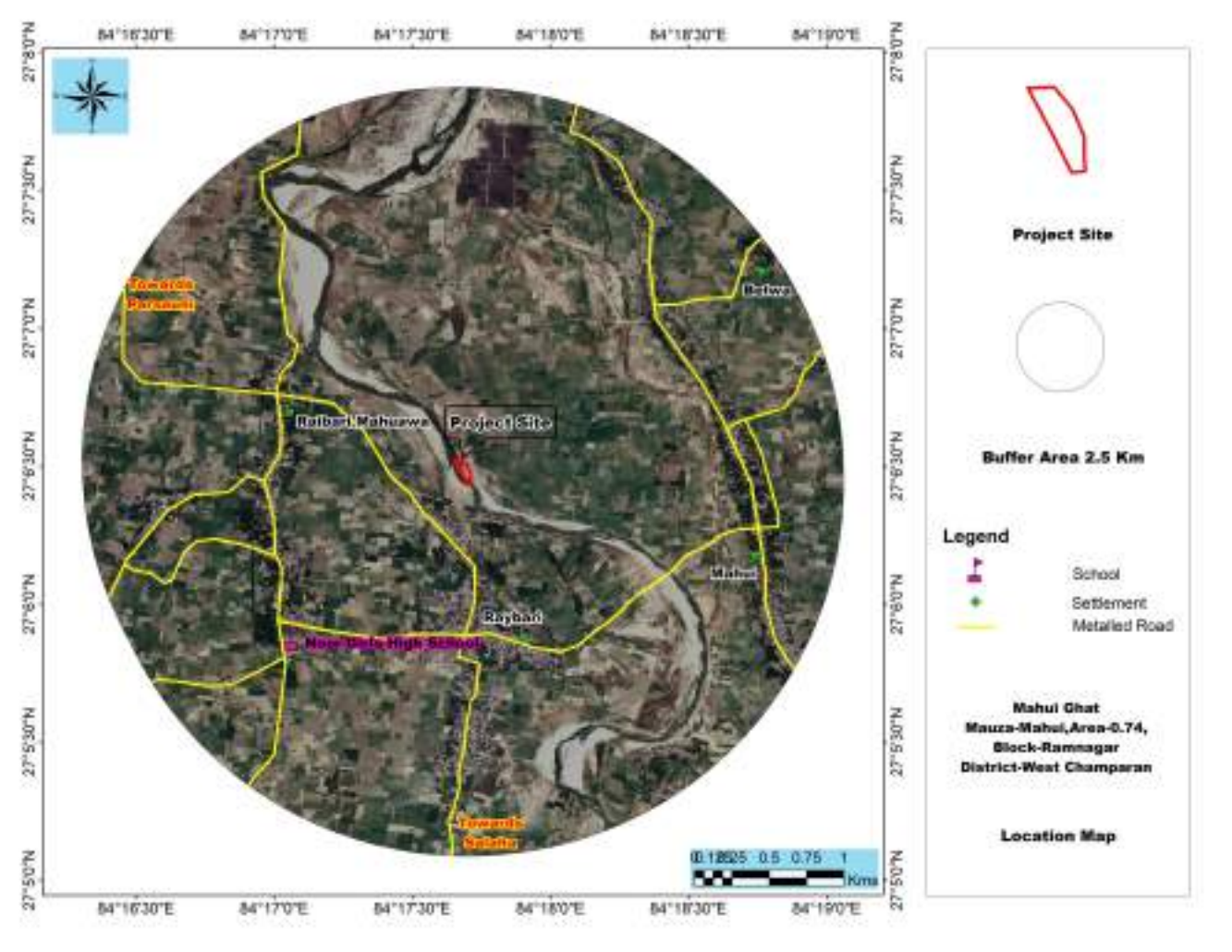
Buffer Area 2.5 Km

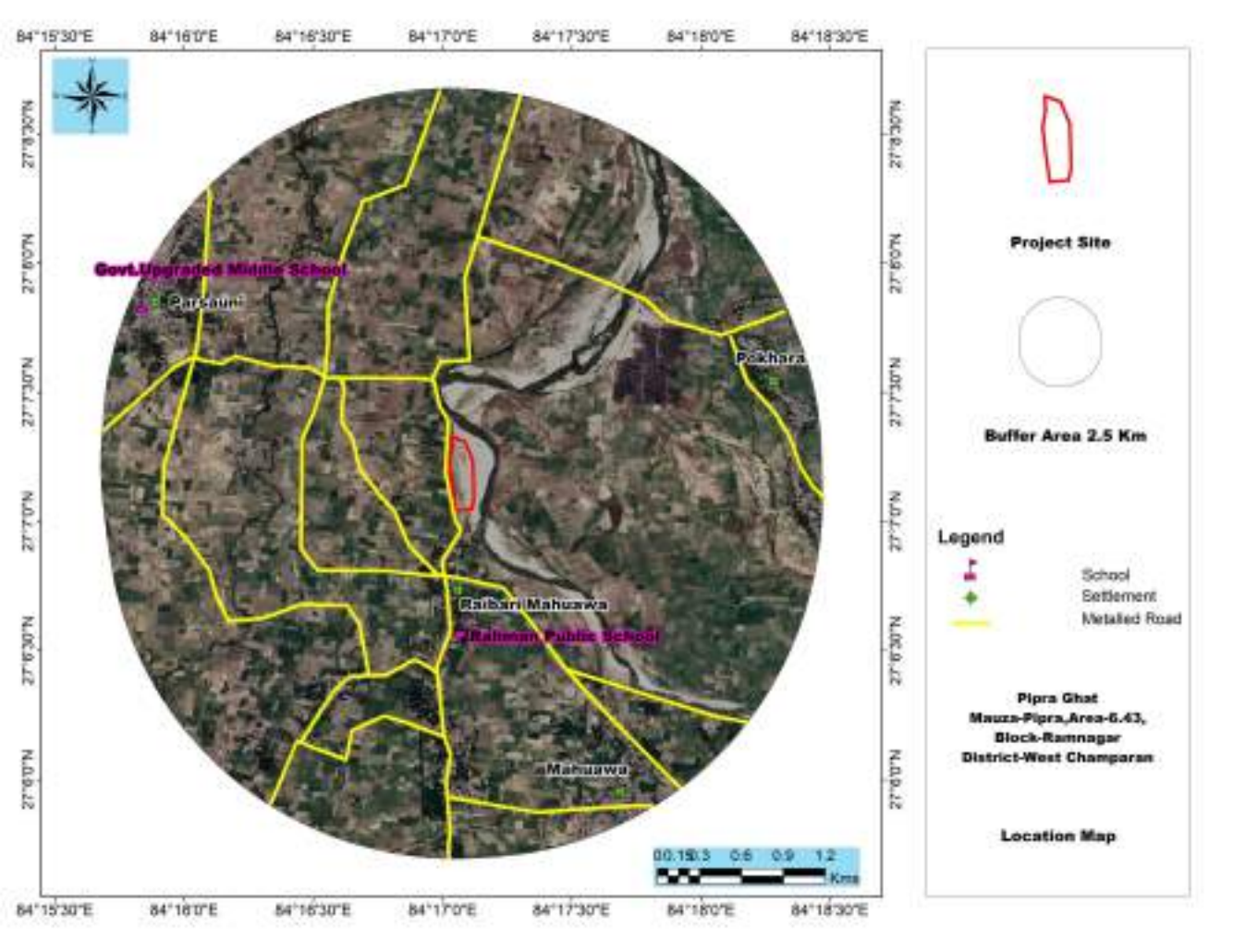
Legend

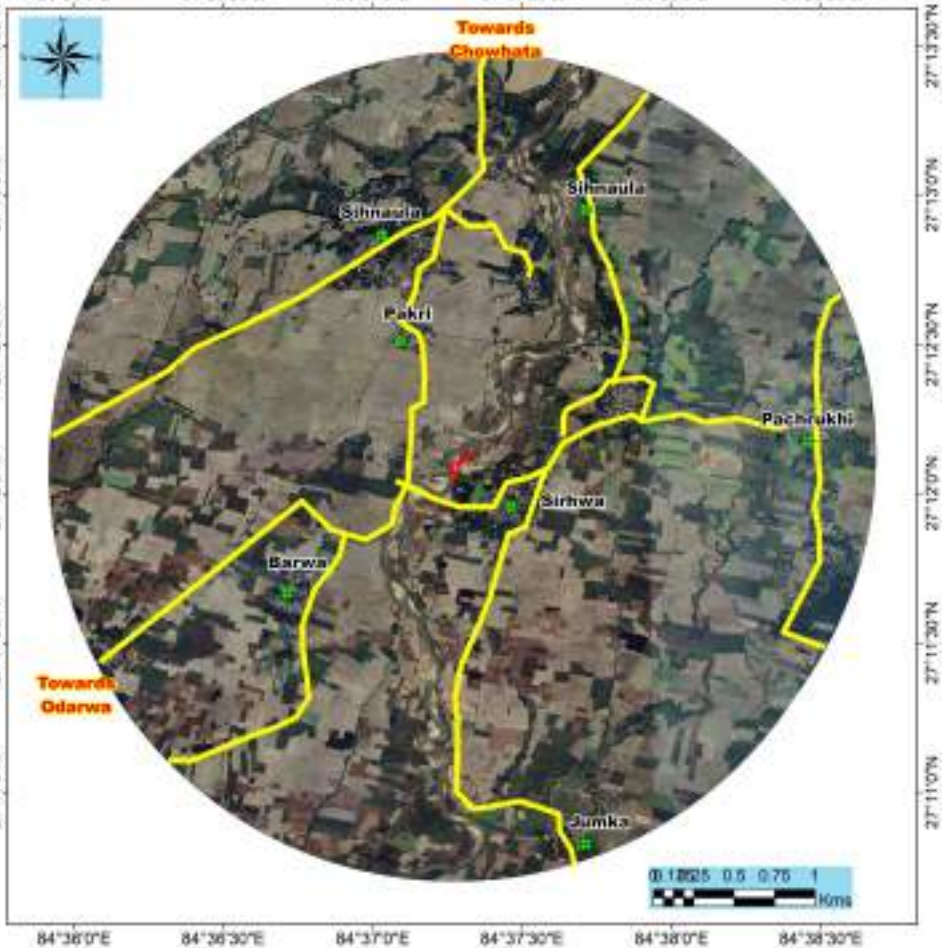
School
Settlement
Metalled Road

Bhaathuhawa Ghat
Mauza-Mahui,Area-1.48,
Block-Mainatand
District-West Champaran

Location Map


84°16'30"E
84°17'0"E
84°17'30"E
84°18'0"E
84°18'30"E
84°19'0"E
27°8'0"N
27°7'30"N
27°7'0"N
27°6'30"N
27°6'0"N
27°5'30"N
27°5'0"N
Towards Parsauni
Raibari Mahuwa
Project Site
Raibari
Mahui
Rayban
New Hira High School
Towards Sidahi
0 0.125 0.25 0.5 0.75 1 Kms
Project Site
Buffer Area 2.5 Km
Legend
School
Settlement
Metalled Road
Mahui Ghat
Mauza-Mahui,Area-0.74,
Block-Ramnagar
District-West Champaran
Location Map


84°15'30"E
84°16'0"E
84°16'30"E
84°17'0"E
84°17'30"E
84°18'0"E
84°18'30"E
27°8'30"N
27°8'0"N
27°7'30"N
27°7'0"N
27°6'30"N
27°6'0"N
Govt.Upgraded Middle School
Parsauni
Pokhara
Raibari Mahuawa
Mahuawa
0 0.15 0.3 0.6 0.9 1.2
Kms
Project Site
Buffer Area 2.5 Km
Legend
School
Settlement
Metalled Road
Pipra Ghat
Mauza-Pipra,Area-6.43,
Block-Ramnagar
District-West Champaran
Location Map



Project Site

Buffer Area 2.5 Km

Legend

Settlement

Metalled Road

Sirhwa Ghat
Mauza-Barwa,Area-0.33 Ha,
Block-Mainatand
District-West Champaran

Location Map

Annexure –IX

(Questionnaire)

PROFORMA FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS

(MINING SECTOR PROJECTS)

Note 1: All information to be given in the form of Annex/s should be properly numbered and form part of reply to this Performa.

Note 2: Please enter √ in appropriate box where answer is Yes / No

Note 3: No abbreviation to be used - **Not available** or **Not applicable** should be clearly mentioned.

Note 4: **Core zone** is the mining lease area.

Buffer zone in case of ML area up to 25 ha is to be considered as **5 km** all around the periphery of the core zone and for ML area above 25 ha an area **10 km** all around the periphery of the core zone.

Note 5: Adopt **Scoping process** in carrying out EIA study.

1. **General Information**

1.	**General information**	
a	Name of the project	Sand Ghat Unit No -11
I	Name of the proponent	Prop. - Sri Navneet Kumar
ii	Mailing Address	N.K Enterprises Sri Navneet Kumar AT-Shanti Nagar, P.O. + Block: - Bettiah District: - West Champaran, State- Bihar
	E-mail	navneetksom@gmail.com
	Telephone	9113472799
	Fax No.	--
b	Objective of the project	Sand Mining
c	**Location of mine**	
	Village	Mauza- Pipra, Mahui, Bhaathuhawa, Pakri, Rampur, Barwa
	Tehsil	Block- Ramnagar, Mainatand, Gonaha
	District	West Champaran (Bettiah)
	State	Bihar

d	Does the proposal relate to	**Yes**	**No**
i	New mine	√	-
ii	Expansion	-	√
iii	Increase in ML area	-	√
iv	Increase in annual production	-	√
v	Renewal of ML	-	√
vi	Modernization	-	√
e	Site Information		
i	Geographical Location		
	Latitude	27°6'26.11"N " to 27°13'3.38"N	
	Longitude	84°17'02.08"E to 84°37'42.37"E	
	Survey of India Topo sheet number	G45A4 & G45A8	
	Elevation above Mean Sea Level	**Mauza** Pipra (112.3 m to 112.1 m) Mahui (111.3 m to 111.1 m) Bhaathuhawa (119.25 m to 119.3 m) Pakri (112.28 m to 112.1 m) Rampur (128.4 m to 128.2 m) Barwa (124.3 m to 124.1 m)	
	Total mining lease area (in ha.)	11.13 Ha.	
ii	Dominant nature of terrain	**Yes**	**No**
	Flat	√	-
	Undulated	-	√
	Hilly	-	√
2.	**Land usage of the mining lease area (in ha.)**		
a	Agricultural	-	
b	Forest (Jungle-jhari)	-	
c	Waste land (G.M.Land)	-	
d	Grazing	--	
e	Surface water bodies	11.13 Ha.	
f	Others (Private Land)	--	
g	Others (Own Land)	--	
	Total	11.13 Ha.	
3.	**Indicate the seismic zone in which ML area falls. In case of zone IV & V, details of earth quakes in last 10 years.**	Seismic Zone– IV	
a	Severity (Richter Scale)		
b	Impact i.e. Damage to	**Yes**	**No**
	Life	-	√
	Property	-	√
	Existing mine	-	√

4. Break-up of mining lease area (in ha.) as per approved conceptual plan:

Purpose		Mining Lease Area				Total	Area acquired				Area to be acquired			
		Government		Private			Government		Private		Government		Private	
		Forest	Others	Agri.	Others		Forest	Others	Agri	Others	Forest	Other	Agri.	Others
1. Area to be excavated		-	11.13 Ha.	-	--	11.13 Ha.	-	11.13 Ha.	-	--	-	-	-	-
2. Storage for top soil		-		-	-	-	-		-	-	-	-	-	-
3. Overburden / Dumps		-		-	--	--	-		-	--	-	-	-	-
4. Mineral storage		-		-	-	-	-		-	-	-	-	-	-
5. Infrastructure (Workshop, Administrative Building)		-		-	--	--	-		-	--	-	-	-	-
6. Roads		-		-	--	--	-		-	--	-	-	-	-
7. Railways		-		-			-		-		-	-	-	-
8. Green Belt		-		-	--	--	-		-	--	-	-	-	-
9.Parapet wall		-	-	-	--	--	-	-	-	--	-	-	-	-
10.Garland Drain		-	-	-	--	--	-	-	-	--	-	-	-	-
11.Coal handling plant / mineral separation plant		-	-	-	--	--	-	-	-	--	-	-	-	-
12. Township area		-	-	--	-	-	-	-	-	-	-	-	-	-
13. Area under Canal			-					-				-		
14. Undisturbed												-		
13.Other	Water reservoir	-	--	-	--	--	--	--		--	--	-	-	-
	Rehab. & Rehabilitation by plantation	-	--		--	--	--	--		-	--	-	-	-
	Undisturbed	-	--		--	--		--		--	--	-	-	-
TOTAL		-	**11.13 Ha.**	-	-	**11.13 Ha.**	--	**11.13 Ha.**	-	-	--		-	-

5	**Township (outside mining lease)**			**Not Applicable**	
a	Total area (in ha)			-	
b	No. of dwelling units			-	
c	Distance from mine site			-	
6	**Distance of water bodies (in km)**				
Distance from		River Bank *		Other Water bodies * Sea / creek / lake / nalla etc. (specify)	
Mining lease boundary		The mine site lies on the dry bed of Masan, Maniyari, Harbora Biraha river.		-	
Ancillary facilities		-		-	
[* From highest flood line / high tide line]					
7	For projects falling within the Coastal Regulation Zone (CRZ)				
	Whether the mineral to be mined is of rare nature and not available outside CRZ?	**Yes**	-	**No**	√

if yes, annex a scaled location map showing low tide line (LTL), high tide line (HTL) duly demarcated by one of the authorized agencies* [*Director, Space Application Centre, Ahmedabad: Centre for Earth Sciences Studies, Thiruvananthapuram: Institute of Remote Sensing, Anna University, Chennai: Institute of Wetland Management & Ecological Designs, Kolkata: Naval Hydrographers' Office, Dehradun: National Institute of Oceanography, Panjim, Goa: and National Institute of Ocean Technology, Chennai], boundary of mining lease area, distance of ML area from LTL and HTL CRZ boundary and CRZ classification of the project area as per the approved Coastal Zone Management Plan, and settlements, sand dunes, mangroves, forest land/patches, turtles breeding and nesting sites etc., if any, in the project area.

8	**Indicate aerial distance from the periphery of core zone / area from the periphery of the buffer zone to the boundary of following (up to 10 km):**			
S. No.	Area	Name	Aerial distance from (in km.)	
			Core Zone	Buffer Zone
1.	National Park / Sanctuary	Nil	-	-
2.	Biosphere Reserve / Tiger Reserve / Elephant Reserve / any other Reserve	Nil	-	-
3.	Forest (RF / PF / unclassified)	Nil	-	-
4.	Habitat for	Nil	-	-

	migratory birds			
5.	Corridor for animals of schedule I & II of the Wildlife (Protection) Act, 1972	Nil	-	-
6.	Archaeological sites * Notified * Others	Nil	-	-
7.	Defense Installation	Nil	-	-
8.	Industries / Thermal Power Plants	Nil	-	-
9.	Other Mines	No	-	-
10.	Airport	Nil	-	-
11.	Railway Lines	Railway Station **Masan River (Pipra & Mahui Ghat)-** Harinagar Railway Station-	-	Pipra- Approx 5.4 Km towards NE. Mahui- Approx.6.0 Km towards NNE.
12.	National / State Highways	**Pipra & Mahui Ghat-** Bansgawn Bhairoganj Road	-	Pipra- Approx 2.7 Km towards West. Mahui-Approx. 3.3 Km towards West.
[* Buffer zone in case of ML area up to 25 ha. is to be considered as **5 km** all around the periphery of the core zone and for ML area above 25 ha. an area **10 km** all around the periphery of the core zone].				

9. Description of flora & fauna separately in the core and buffer zones. *****

[* Consult the Wildlife (Protection) Act, 1972 as amended subsequently and list species with (1) Common name (2) Scientific name and (3) under which schedule of the Wildlife (Protection) Act the identified species fall. Get the list authenticated by an Expert in the field / credible scientific institute / University / Chief Wildlife Warden Office. **Information to be based on field survey.]**

Details are given in Chapter 3 of the EIA report.

10	**Details of mineral reserves (as per approved Mining Plan)**	Quantity (In tons)	
a	Proved		
b	Indicated	--	
c	Inferred	--	
d	Mineable reserves	102480.6 TPA	
11	**Major geological formation / disturbances in the mining lease area**	**Yes**	**No**
a	Geological maps submitted	√	**-**

b	Geological sections submitted	√	-
c	Contour map submitted	√	-
d	Whether the presence, if any, noted of		
I	Faults	-	√
Ii	Dykes	-	√
Iii	Shear Zone	-	√
Iv	Folds	-	√
V	Other weak zones	-	√
e	Source of data (Indicate)	-	
12	**Production of mineral(s) and life of mine**		
a	Rated capacity of mine mineral wise (Tonnes / annum)	102480.6 TPA	
b	Life of mine at proposed capacity (Years)	It is a river bed deposit and mined out area shall be replenished each year	
c	Lease period (Years)	LOI issued letter no-218/Khanan, Bettiah dated 17-04-2023 for the period of Five Years	
d	Date of expiry of lease (D /M /Y)	-	
e	Indicate in case of existing mines	-	
i	Date of opening of mine	-	
ii	Production in the last 5 Years	-	
iii	Projected production for the next 6^{th} to 10^{th} year .	-	
iv	Whether mining was suspended after opening of the mine?	-	
v	If yes, details there of including last production figure and reason for the same.	--	
f	Whether plans & sections provided?	**Yes**	
13	**Type and method of mining operations**		

TYPE		**METHOD**	
Opencast	√	Manual	-
Underground	-	Mechanized	-
Both	-	Semi-mechanized	√

14	**Details of ancillary operations for mineral processing**	
a	Existing	-
b	Additional	-
15	**Mine details**	
a	**Opencast mine**	
i	Stripping ratio (mineral in tonnes to over burden in m^3)	-
ii	Ultimate working depth (in m bgl)	1 m
iii	Indicate present working depth in case of existing mine (in m bgl)	--
iv	Thickness of top soil (in m.)	--
a	Minimum	0.0

b	Maximum	0
c	Average	0
v	Thickness of overburden (in m.)	
a	Minimum	0.0
b	Maximum	0
c	Average	--
vi	Mining Plan	
a	Height and width of the bench in overburden / waste.	0
b	Height & width of the bench in ore body / coal seam.	Height: 1 m Width : 1.5 m
c	Proposed inclination / slope of the sides of the opencast mine (separately for overburden, coal / ore and overall slope of the pit sides) both while operating the mine as well as at the time of closure of the mine.	45º
d	Whether transverse sections across the opencast mine at the end of fifth year and at the end of the life of the mine have been submitted?	--
vii	Type of blasting, if any, to be adopted	--
b	Underground mine-	**Not Applicable**
i	Seam / Ore body	
	Min.Depth (m)	-
	Max. Depth (m)	-
	Avg. thickness (m)	-
	Rate of dip	-
	Direction of dip in degree	-
ii	Mode of entry into the mine	
	Shaft	-
	Adit	-
	Incline	-
iii	Details of machinery	
	On surface	-
	At Face	-
	For transportation	-
	Others	-
iv	Method of stopping	
	Open	-
	Filled	-
	Shrinkage	-
	Caving	-
	Combination of above	-
	Others (Specify)	-
v	Extraction method	
	Caving	-
	Stowing	-

	Partial extraction	-	
vi	Subsidence		
	Predicted max. subsidence (in m)	-	
	Max. value of tensile strain (in mm/m)	-	
	Max. slope change (in mm/m)	-	
	Whether identified possible subsidence area(s) superimposed on Surface Plan has been submitted?	-	
	Major impacts on surface features like natural drainage pattern, houses, buildings, water bodies, roads, forest, etc.	-	
	Salient features of subsidence management (monitoring and control).	-	
16	**Surface drainage pattern at mine site**	**Yes**	**No**
a	Whether the pre-mining surface drainage plan submitted?		√
b	Do you propose any modification / diversion in the existing natural drainage pattern at any stage? If yes, when. Provide location map indicating contours, dimensions of water body to be diverted, direction of flow of water and proposed route / changes, if any i.e. realignment of river / nallah / any other water body falling within core zone and its impact	-	√
17	**Embankment and / or weir construction**		
a	Do you propose, at any stage, construction of		
i	Embankment for protection against flood?	No	
ii	Weir for water storage for the mine?	No	
b	If so, provide details thereof.	-	
c	Impact of embankment on HFL and settlement around.	-	
d	**Impact of weir on downstream users of water**	-	
18	Vehicular traffic density (**outside the ML area**)		
		Type of vehicles	No. of vehicles per day (in PCU)
a	Existing	tractor/trolley	Traffic on Bansgawn Bhairoganj Road **1550.** Mathura- Pakari- Chauhatta Road **1200.** Gokhula- Bairia- Dudhaura Road **1300.** Narkatiaganj- Bhitiharwa- Gunaha Road **1621.**
b	After the proposed activity		Traffic on Bansgawn Bhairoganj Road **1619.** Mathura- Pakari- Chauhatta Road **1215.** Gokhula- Bairia- Dudhaura

			Road **1315.** Narkatiaganj- Bhitiharwa-Gunaha Road **1630**.	
c	Whether the existing road network is adequate?		Yes	
	If no, provide details of alternative proposal?		-	
19	Loading, transportation and unloading of mineral and waste rocks on surface		**Yes**	**No**
a	Manual		√	
b	Tubs, mine cars, etc.		-	√
c	Scraper, shovels, dumpers / trucks		√	-
d	Conveyors (belt, chain, etc.)		-	√
e	Others (specify)		-	√
20	Mineral(s) transportation outside the ML area			
		Qty. (in tonne)	**Percentage (%)**	**Length (in km)**
a	Road	102480.6 TPA	100	1.43
b	Rail	-	-	-
c	Conveyors	-	-	-
d	Rope way	-	-	-
e	Water ways	-	-	-
f	Pipeline	-	-	-
g	Others (Specify)	-	-	-
	Total	**102480.6 TPA**	**100**	**1.43**

21. Baseline Meteorological and Air Quality data

(a) Micro-meteorological data

[Continuous monitoring through autographic instrument for one full season other than monsoon]

(i) Wind rose pattern for one full season (16 points of compass i.e. N, NNE, NE, ---) based on 24-hourly data. For coastal area also furnish day-time and night time data. (Given in Chapter 3 of EIA report)

- Day time
- Night time
- 24 – hours period

(ii) Site specific monitored data (IMD)

(Oct-Dec 2023)

Particulars	**Unit**	**Min**	**Max**	**Avrg**
Temp	C	7.8	35.4	24.5
RH	%	38	69	45
Wind Speed	m/s	0.5	8.8	2.27
Solar Radiation	W/m2	5100	5500	5350
Wind Direction	South West			
Rainfall	23 mm			
No of Rainy Days	08			
Avrg Annual Rainfall	1472.6 mm			

* 24-hours rainfall should be reported from 08:30 hrs. IST of previous day to 08:30 hrs. IST of the day.

* Rainy day is considered when 24 hrs. rainfall is ≥ 2.5 mm.

** Visual observations of cloud cover should be recorded four times a day at regular intervals.

(iii)Indicate name and distance of the nearest IMD meteorological station from which climatological data have been obtained for reporting in the EIA report, if any.

(b) Ambient air quality data* (RPM, SPM, SO_2, and NOx)

[*Monitoring should be carried out covering one full season except monsoon – same season as in 21 (a) (i)]

[*Frequency of sampling: Sampling to be done twice a week for the entire season 24 hourly for SPM & RPM. For gaseous pollutants 24-hourly data be given irrespective of the sampling period.]

(i) Season and period for which monitoring has been carried out in Summer Season **(1st October 2023 to 31st December 2023)**

(ii) No. of samples collected at each monitoring station**: 24**

Ambient Air Quality Monitoring Results (Masan River)

Name of monitoring equipment used			**$PM_{2.5}$(µg/m^3)**			**PM_{10} (µg/m^3)**			**SO_2 (µg/m^3)**			**No_x (µg/m^3)**			**Pb****		
			Envirotech FPS – APM 5.50			**RDS 460 BL**			**APM 411 attachment with RDS 460 BL**			**APM 411 attachment with RDS 460 BL**			-		
Equipment sensitivity			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			-		
Permissible AAQ standard (CPCB) R,I,S			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
Monitoring Location	No. of Samples Drawn	Category* (R, I, S)	Min	Max	98% tile	Min	Max	98% tile	Min.	Max.	98% tile	Min.	Max.	98% tile	Min	Max	98 % tile
AAQ1	24		32.5	49.2	48.9	70.9	88.4	88.0	9.7	16.1	16.0	25.1	31.9	31.3	-	-	-
AAQ2	24		34.3	52.1	51.8	70.4	87.4	87.3	10.2	17.0	16.9	26.6	33.8	33.2	-	-	-
AAQ3	24		28.0	42.5	42.2	61.1	76.2	75.9	8.3	13.9	15.1	21.7	27.6	27.0	-	-	-
AAQ4	24		30.9	46.7	46.4	67.3	83.9	83.5	9.2	15.2	15.1	23.8	30.7	30.6	-	-	-

AAQ5	24		28.7	43.6	43.3	62.6	78.2	77.9	8.5	14.3	14.2	22.2	28.3	27.8	-	-	-
AAQ6	24		30.7	48.3	48.0	69.6	86.8	86.4	9.4	15.9	15.7	24.7	34.8	33.2	-	-	-
AAQ7	24		26.3	39.8	39.6	57.4	71.6	71.2	7.8	13.1	13.0	20.3	25.9	25.4	-	-	-
AAQ8	24		25.5	38.6	38.4	55.7	69.4	69.1	7.6	12.7	12.6	19.7	25.1	24.6	-	-	-
AAQ9	24		24.7	37.5	37.2	54.0	67.3	67.0	7.4	12.3	12.2	19.1	27.4	26.0	-	-	-
AAQ10	24		26.8	40.7	40.5	58.5	73.1	72.7	8.0	13.3	13.2	18.4	26.4	25.9	-	-	-
AAQ11	24		28.9	43.9	43.7	63.2	80.5	79.8	8.6	14.4	14.3	19.9	28.5	28.0	-	-	-

Ambient Air Quality Monitoring Results (Harbora River)

Name of monitoring equipment used			**$PM_{2.5}$($\mu g/m^3$)**			**PM_{10} ($\mu g/m^3$)**			**SO_2 ($\mu g/m^3$)**			**No_x ($\mu g/m^3$)**			**Pb****		
			Envirotech FPS – APM 5.50			**RDS 460 BL**			**APM 411 attachment with RDS 460 BL**			**APM 411 attachment with RDS 460 BL**			-		
Equipment sensitivity			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			-		
Permissible AAQ standard (CPCB) R, I, S			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
Monitoring Location	No. of Samples Drawn	Category* (R, I, S)	Min	Max	98% tile	Min	Max	98% tile	Min.	Max.	98% tile	Min.	Max.	98% tile	Min	Max	98 % tile
AAQ1	24		39.9	50.8	50.7	67.2	90.9	90.2	10.6	18.3	17.7	25.0	35.1	34.6	-	-	-
AAQ2	24		33.1	46.7	45.4	69.7	87.0	86.8	12.6	17.3	16.4	25.0	32.8	32.6	-	-	-
AAQ3	24		32.0	45.1	43.2	71.9	81.4	81.1	8.5	15.0	13.9	23.2	32.6	30.9	-	-	-
AAQ4	24		28.5	39.0	38.7	66.7	78.4	78.0	9.1	13.9	13.6	16.7	22.1	22.0	-	-	-
AAQ5	24		27.3	35.4	35.3	64.7	76.3	74.8	8.1	13.7	13.5	14.2	23.7	22.8	-	-	-
AAQ6	24		32.4	46.1	44.8	58.5	70.6	70.1	10.2	14.5	14.2	19.5	33.2	31.2	-	-	-
AAQ7	24		28.1	38.6	38.2	61.0	72.2	71.9	8.5	12.4	12.2	25.4	35.6	35.4	-	-	-

AAQ8	24		37.0	48.1	47.5	68.7	85.3	84.5	12.4	18.2	17.8	21.4	33.9	33.6	-	-	-

Ambient Air Quality Monitoring Results (Maniyari River)

Name of monitoring equipment used			**$PM_{2.5}$(µg/m^3)**			**PM_{10} (µg/m^3)**			**SO_2 (µg/m^3)**			**No_x (µg/m^3)**			**Pb****		
			Envirotech FPS – APM 5.50			**RDS 460 BL**			**APM 411 attachment with RDS 460 BL**			**APM 411 attachment with RDS 460 BL**			**-**		
Equipment sensitivity			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			-		
Permissible AAQ standard (CPCB) R, I, S			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
Monitoring Location	No. of Samples Drawn	Category* (R, I, S)	Min	Max	98% tile	Min	Max	98% tile	Min.	Max.	98% tile	Min.	Max.	98% tile	Min	Max	98 % tile
AAQ1	24		38.7	49.3	49.2	65.1	88.2	87.5	10.3	17.8	17.2	24.2	34.1	33.5	-	-	-
AAQ2	24		32.1	45.3	44.0	67.6	84.4	84.2	12.2	16.8	15.9	24.3	31.9	31.7	-	-	-
AAQ3	24		31.0	43.7	41.9	69.7	78.9	78.7	8.2	14.5	13.5	22.5	31.6	30.0	-	-	-
AAQ4	24		27.6	37.8	37.6	64.7	76.1	75.7	8.9	13.5	13.2	16.2	21.4	21.3	-	-	-
AAQ5	24		26.4	34.3	34.3	62.8	75.2	74.7	7.9	13.2	13.1	13.7	23.0	22.1	-	-	-
AAQ6	24		31.4	44.7	43.4	56.8	68.5	68.0	9.9	14.1	13.8	18.9	32.2	30.2	-	-	-
AAQ7	24		27.3	37.4	37.0	59.2	70.0	69.8	8.2	12.0	11.8	24.7	34.5	34.4	-	-	-
AAQ8	24		35.9	46.6	46.0	66.7	82.7	81.9	12.0	17.6	17.3	20.7	32.9	32.6	-	-	-

Ambient Air Quality Monitoring Results (Biraha River)

Name of monitoring equipment used			$PM_{2.5}$(µg/m^3)			PM_{10} (µg/m^3)			SO_2 (µg/m^3)			No_x (µg/m^3)			Pb**		
			Envirotech FPS – APM 5.50			RDS 460 BL			APM 411 attachment with RDS 460 BL			APM 411 attachment with RDS 460 BL			-		
Equipment sensitivity			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3			-		
Permissible AAQ standard (CPCB) R, I, S			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
			60 µg/m^3			100 µg/m^3			80 µg/m^3			80 µg/m^3			-		
Monitoring Location	No. of Samples Drawn	Category* (R, I, S)	Min	Max	98% tile	Min	Max	98% tile	Min.	Max.	98% tile	Min.	Max.	98% tile	Min	Max	98 % tile
AAQ1	24		31.5	47.7	47.5	68.7	85.7	85.3	9.4	15.6	15.5	24.4	31.0	30.4	-	-	-
AAQ2	24		35.4	53.7	53.4	72.9	90.0	89.9	10.5	17.6	17.4	27.4	34.8	34.2	-	-	-
AAQ3	24		27.4	41.6	41.3	59.9	74.7	74.4	8.2	13.6	13.5	21.2	27.0	26.5	-	-	-
AAQ4	24		30.2	45.8	45.5	65.9	82.2	81.8	9.0	14.9	14.8	23.4	30.1	30.0	-	-	-
AAQ5	24		28.1	42.7	42.4	61.4	76.7	76.3	8.3	14.0	13.9	21.8	27.8	27.2	-	-	-
AAQ6	24		30.1	47.3	47.0	68.2	85.0	84.6	9.2	15.5	15.4	24.2	34.2	32.6	-	-	-
AAQ7	24		25.8	39.0	38.8	56.3	70.1	69.8	7.6	12.8	12.7	19.9	25.4	24.9	-	-	-
AAQ8	24		25.0	37.8	37.6	54.6	68.0	67.7	7.4	12.4	12.3	19.3	24.6	24.1	-	-	-
AAQ9	24		24.2	36.8	36.5	52.9	66.0	65.6	7.3	12.1	12.0	18.7	26.9	25.5	-	-	-
AAQ10	24		26.3	39.9	39.7	57.3	71.6	71.3	7.8	13.0	12.9	18.0	25.9	25.4	-	-	-

*R = Residential; I = Industrial; S = Sensitive

**Pb for mineral specific sites only.

Annex a location map indicating location of AAQ stations, their direction and distance with respect to project site.

22. Stack and emission details, if any* Not Applicable

S. No.	Process / unit of operation (e.g. DG Set, Boiler)	Height of stack (m)	Internal top dia. (m)	Flue gas exit velocity (m/sec)	Emission rate (kg/hr)				Heat emission rate from top of stack (K.cal/hr)	Exhaust / Flue gas			
					SPM	SO_2	NO_x	CO		Temp ^OC	Density	Specific Heat	Volumetric flow rate (m^3/hr.)
	-	-	-	-	-				-	-	-	-	-

23. Details of fugitive emissions during mining operations*

Given in Chapter 4

24. Air Quality Impact Prediction (AQIP)*Not Applicable

(a) Details of model(s) used for AQIP including grid size, terrain features, and input meteorological data

(b) Maximum incremental GLC values of pollutants based on prediction exercise

(in $\mu g/m^3$)

S. No.	Pollutants	Location	Incremental Value	Ambient Air Quality	Resultant Air Quality
1.	SPM	Pipra Ghat	0.440	88.4	88.84
		Mahui Ghat	0.012	87.4	87.412
		Bhaathuhawa Ghat	0.073	88.2	88.273
		Bairia Ghat	0.071	90.9	90.971
		Pakri Ghat	0.017	85.7	85.717
		Sirhwa Ghat	0.067	90.0	90.067
2**.	SO_2		-	-	-
3**.	NO_X		-	-	-

[* Question Number 22, 23 & 24 need not be filled-in for mines having ML area of **25 ha. or less.**]

[**Information on item no. 2 & 3 to be provided in cases with captive power generation of 500 KVA and above]

25. Water requirement (m^3/day)

Purpose	Avg. Demand	Peak Demand
A. Mine site		
1. Mine operation	-	-
2. Land reclamation	-	-
3. Dust suppression	-	-
4. Drinking & domestic	0.13	0.13
5. Green Belt & Dust Suppression	5.33	5.33
6. Beneficiation	-	-
7. Washeries	-	-
8. Fire Service	-	-
9. Others (Mining and Allied Activities))	-	-
B. <u>Township</u>		
1. Green Belt	-	-
2. Domestic	-	-
C. Other (specify)	-	-
Total	**5.46**	**5.46**

26. Source of water supply*

S. No.	**Source**	m^3/day
1	River (name)	-
2	Ground water	0.13
3	Mine water (sump / pit)	--
4	Other surface water bodies (water will be tapped from plant supply)	5.33

[*Annex a copy of sanction letter / permission from the concerned authority (Central Ground Water Authority in case of ground water abstraction is from notified area / State Ground Water Board in case of non-notified area / State Irrigation Department for surface water pumping) for drawing water.

27	**Lean season flow in case of pumping from river / nalla (cumecs)**	**Not applicable**
28	Ground water potential of the study area	-
28.1	**Ground water availability**	
a	Range of water table (m bgl)	-
i	Pre-monsoon (April/May)	
	Core Zone	-
	Buffer zone	-
ii	Post-monsoon (November)	
	Core Zone	-
	Buffer zone	-
b	Total annual replenish able recharge (million m^3/ year)	
i	By ground water table fluctuation method	-
ii	By rainfall infiltration factor method	-
c	Annual draft excluding estimated draft through mine discharge (million m^3/ year)	-
d	Estimated draft through mine discharge (million m^3/ year)	-
e	Net annual ground water availability (million m^3/ year)	-
f	Stage of ground water development (%)	-

28.2. Water demand - Competing users of the water source

S. No.	Usage	Present Consumption (m^3/day)		Additional proposed as per local plan (m^3/day)		Total (m^3/day)	
		Surface	Ground	Surface	Ground	Surface	Ground
1	Domestic	-	-	-	0.13		0.13
2	Irrigation	-	-		-		-
3	Industry	-	-		-		-
4	Mining	-	-	-	-		-
5	Others (Dust suppression+ Green belt)	-	-	5.33		5.33	-
Total		--	--	5.33	0.13	5.33	0.13

29. Water quality*

(a) Annex physio -chemical analysis of water at intake point **

(Given in chapter 3 of EIA report.).

(b) In case of existing mine, annex report on quality of water discharge
i.e. complete physico - chemical analysis**
[*For non-discharging mines at least four ground water samples to be taken preferably from downstream direction of the mine in pre-monsoon and post-monsoon periods and analysed. For discharging mines six samples are to be analysed]

**All parameters as per BIS 10500. Indicate name of Methodology, Equipment used for analysis, and Detection Level (DL) for each parameter.
*** Wherever any analytical parameter is below detection level, "BDL" (Below Detection Level) should be written instead of 'NIL'.

30.	**Impact on ground water regime / stream / lake / springs due to mine dewatering ***	Not required
a	Radius of influence (in m) [To be estimated based on analysis of pumping test data and application of empirical formula]	-
b	Whether saline water ingress will take place?(applicable to coastal areas)	-
c	Impact on stream / lake / springs	-

[* Provide a comprehensive hydro-geological assessment report if the average mine dewatering is more than 100 m^3/day and or going below water table in non-monsoon period. The report should be based on preferably latest one-year pre-monsoon and post-monsoon baseline data covering information on ground water situation, aquifer characteristics, water level conditions (April – May and November), estimate of ground water resources, predicted impact of the project on ground water regime and detailed remedial / conservation measures such as artificial recharge of ground water etc. The report should be based on actual field inventory out of existing wells, at least 30 observation wells in the buffer zone with supplementary information from secondary sources (mention name). For estimation** of ground water resource (refer question no. 28 above) be designated study area of the buffer zone may be sub-divided into command and non-command areas, watershed-wise (in case of hard rock / consolidated formations) / block-wise / Mandal-wise in case of alluvial / unconsolidated formations)**]**

**For estimating ground water resources in the area follow the Ground Water Estimation Committee recommendations of 1997]

31.	**Waste Water Management**	Not Applicable
a	Daily average discharge (m^3/day) from different sources	-
i	Mine water discharge during	-
	Lean period	-
	Monsoon period	-
ii	Workshop	-
iii	Domestic (mine site)	-
iv	Beneficiation / Washeries	-
v	Coal Handling Plant	-

vi	Tailings pond	-	
vii	Others (Specify)	-	
	Total	-	
b	Waste water treatment plant; flow sheet for treatment process attached.	-	
C	Quantity of water recycled / reused / to be recycled in	-	
i	Percentage	-	
ii	m3 /day	-	
d	Point of final discharge	-	
	Final Point	-	
1	Surface	-	
i	Agricultural land	-	
ii	Waste land	-	
iii	Forest land	-	
iv	Green belt	-	
2	River / nallah	-	
3	Lake	-	
4	Sea	-	
5	Others (specify)	-	
	Total	-	
e	Users of discharge water	**Yes**	**No**
i	Human		
ii	Livestock		
iii	Irrigation		
iv	Industry		
v	Others (specify)		
F	Details of the river / nalla, if final effluent is / will be discharged (cumecs)		
i	Average flow rate		
ii	Lean season flow rate		
iii	Aquatic life		
iv	Analysis of river water 100 meters upstream and 100 meters downstream of discharge point submitted.		
G	Township		
a	Waste water generation from township (m3/day)		
b	Are you planning to provide sewage treatment plant?		
C	Usage of treated water		
32.	**Attach water balance statement in the form of a flow diagram indicating source (s), consumption (Section-wise) and output.** **Given in chapter 2 of EIA report**		
33	**Ambient noise level leq dB(A)**	Details given in Chapter III	
34	**Solid Waste-**	1.95 Kg/day	

a	Top soil and Solid waste quantity and quality			
Name (Lump/fines/slurry/ Sludge/others)		Composition	Quantity (cum)	Method of disposal
Mining activity*				
a. Top Soil			--	--
b. Over burden			--	--
c. Others (20% intercalated waste)			--	--
Effluent Treatment Plant (sludge)			--	--
Total			--	--
[* Annex layout plan indicating the dump sites.]				
b (i)	Does waste (s) contain any hazardous/toxic substance/radioactive materials or heavy metals?		No	
(ii)	If yes, whether details and precautionary measures provided?		NA	
c	Recovery and recycling possibilities.		NA	
d	Possible user(s) of the solid waste.		NA	
e (i)	Is the solid waste suitable for backfilling?		NA	
(ii)	If yes, when do you propose to start backfilling?		NA	
Solid waste (s)	Already accumulated (A)	To be generated (B)	% of A & B to be backfilled	
			A	B
Over burden		--	--	
Others (20% intercalated waste)		--	-	-
	Land reclamation Plan		**Not Applicable**	
f	In case waste is to be dumped on the ground, indicate		--	
i	Associated environmental problems			
ii	Number & type of waste dumps			
	No. of external dumps		Nil	
	Max. projected height of dumps (in m)		--	
	No. of terraces and height of each stage			
	Overall slope of the dump (degree)		--	
	Proposed reclamation measures		NA	
iii	Section of the waste dump in relation to the adjacent ground profile attached		NA	
35	**Fuel / Energy requirements*** [*To be furnished for mines having ML area m than 25 ha. or captive power generation of		**Not Applicable**	

	500KVA and above]				
a	Total power requirement			(in MW)	
S. No.		Mine Site	Township	Others (specify)	Total
1	Present				
2	Proposed / additional				
Total					

b	Source of power		(in MW)	
S. No.		SEB/Grid*	Captive power plant	DG Sets
1	Present			
2	Proposed / additional			
Total				

[* Annex a copy of the sanction letter from the concerned authority]

c	Details of fuels					
S.No.	Fuel	Daily Consumption (TPD)		Calorific value (Kcals/kg)	% Ash	% Sulphur
		Existing	Proposed			
1	HSD					
2	LSHS					
3	Other (specify)					

36	**Storage of inflammable / explosive materials**			**Not Applicable**
S. No.	Name	Number of Storages	Consumption (in TPD)	Maximum Quantity at any point of time
1	Fuels			
2	Explosives			

37	**Human Settlement**	
	Core Zone	Buffer Zone
Population*	-	Details given in Chapter III
No. of villages	-	
Number of households village-wise	-	

[* As per 2001 census record or actual survey]

38.	**Rehabilitation & Resettlement (R&R) Plan*** [*Provide a comprehensive rehabilitation plan, if more than 1000 people are likely to be displaced, other-wise a summary plan]	**Not Applicable**
a	Villages falling within the study area	

	Villages	
	Number	Name
Core zone		
500 m from the blasting site (s)		

Buffer zone						
Township site						
b	Details of village(s) in the core zone					
S. No.	**Village name**	**Population***			**Average Annual Income**	
		Tribal	Others			
1						
[*As per 2001 census / actual survey]						
c	Population to be displaced and / or Land Oustees					
Name of village(s) falling within		Number of oustees				
		Land (only)	Homestead (only)	Land and Homestead (both)		
Mining Lease 1.						
Township Site 1.						
d	Whether R&R package has been finalized? If yes, salient features of R&R plan for oustees.				**Not Applicable**	
i	Site details where the people are proposed to be resettled & facilities existing / to be created.					
ii	Funds earmarked for compensation package					
iii	Agency /Authority responsible for their resettlement.					
iv	Time of commencement of resettlement of Project Affected People (PAP).					
v	Period by which resettlement of PAP will be over.					
39	**Lease -wise plantation details**					
a	Lease area (in ha.)				Existing	Proposed
	i. Area broken up				--	-
	ii. To be broken up				-	11.13 Ha.
	iii. Area not to be broken-up				-	-
b	Township area (in ha.)				-	
c	Area afforested and proposed (in ha.)				-	
		Peripheral	Dumps	Roads	Township	Others
i	Existing					
ii	Proposed					
d	No. and type of trees planted and proposed					
i	Existing				--	
	When plantation was started?				Month / Year	
No. of plant species planted					Number saplings (per ha.)	
Bael, Neem, Aam, Amrud, Ashok, Jamun					10	
Survival rate %					Avg. height	
ii	Proposed					

	No. of plant species to be planted	Number of saplings (per ha.)
	--	--
40	**Environmental health and safety**	
a	What major health and safety hazards are anticipated?	Refer Chapter VII
	What provisions have been made/proposed to be made to conform to health and safety requirements?	As per Mines Act/ Rules
	In case of an existing mine	
i	Comprehensive report on health status of the workers as under the Mines Act annexed	As per Mines Act/ Rules
ii	Mineralogical composition of RPM (dust)	
	• Free silica	Not applicable
	• Chromium* (Total as well as Hexavalent)	Not applicable
	• Lead** [* Only for Chromite mines] [**Only for Base Metal mines]	Not applicable
	Information on radiation protection measures, if applicable	Not applicable

41. Environmental Management Plan

Salient features of environmental protection measures

S. No.	Environmental issues*	Already practiced, if applicable	Proposed
1	Air pollution	-	Regular water sprinkling, plantation □ Plantation will be done on both sides of the road
2	Water pollution	-	--
3.	Water conservation	-	General awareness,
4.	Noise pollution	-	Preventive maintenance of machines,
5.	Solid waste / Tailings	-	Not applicable
6.	Land degradation	-	Reclamation and rehabilitation by afforestation and conversion into water reservoir.
7.	Erosion & Sediment	-	NA
8.	Top soil	-	NA
9.	Ground vibration	-	NA
10.	Wildlife conservation	-	NA
11.	Forest protection	-	NA
12.	Others (specify)	-	Social training and general awareness

[* As applicable]

42	**Compliance with environmental safeguards (**For existing units)	**Yes**	**No**
	Status of the compliance of conditions of Environmental clearance issued by MoEF, if any, enclosed.	-	√
	Status of the compliance of 'Consent to Operate' issued by SPCB, if any, enclosed.	-	√
	Latest 'environmental statement' enclosed.	-	√
43	**Scoping of EIA**		
	Whether environmental impact assessment of the project has been carried out by following scoping process?	Yes	
	If yes, a copy of scoping of EIA annexed.	Details are given in Chapter I	
44	**Mine closure**		
a	Have you planned mine closure?	Yes	
b	Submitted a conceptual mine closure plan.	Yes	
c	If yes, indicate estimated amount for implementing the same (in Rs. lakhs)	-	
45	**Capital cost of the project (in Rs. Lakh) (Based on latest estimate)**	**Rs. 868.4535 lakh -** (including auction cost).	

46. Cost of environmental protection measures (in Lakh)

Sl. No	Description	Capital Cost (lakh)	Recurring Cost (lakh)
1	Pollution Control & Dust Suppression	Nil	4.0
2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Noise Pollution iv) Soil Pollution	--	3.0
3	Plantation and salary for one gardener (part time basis).	2.22	1.0
4.	Haul road Maintenance Cost	1.25	1.44
5.	Occupational Health and Safety of the workers	1.0	3.0
6.	CER Budget (Public Hearing Commitment) A.) Infrastructure development for school campus renovation (7 **lakhs**) B.) Installation of solar lighting in 2 villages namely as Bathuawa, Pakari, (Rs. 25,000 x 40 nos.) (**10 lakhs**)	17	--
Grand Total		**21.47**	**12.44**

47. Amount earmarked for socio-economic welfare measures for the nearby villages other than R&R plans.

SL. No	Area of Concern	Action Plan	Budget Allocated (in Lakh)	Time Period
1.	School Infrastructure	Infrastructure development for school campus renovation	7.0	1st Year
2.	Development activities in the nearest village with CER	Installation of solar lighting in 2 villages namely as Bathuawa, Pakari, (Rs. 25,000 x 40 nos.)	10.0	2nd Year
	Total		**17**	

48. Public Hearing

a	Date of Advertisement	08.02.2024	
b	Newspapers in which the advertisement appeared	Hindustan, Dainik Bhaskar	
c	Date of public hearing (DD/MM/YYYY)	16th of March, 2024	
d	Public Hearing Panel chaired by & members present	➢ ADM- Cum- Public Grievance Redressal Officer, Bettiah– Shree Anil Kumar Sinha (Nominated by District Collector- Bettiah) ➢ Shree S.N Thakur, Regional Officder, BSPCB, Muzaffarpur.	
e	No. of people attended the public hearing meeting and number of people from the lease area.	Around 40.	
f	**Summary/details of public hearing in tabular form Given in chapter 7 of the EIA report.**		
49	**Whether the following approvals* (wherever**	**YES**	**NO**
a	Site clearance from MoEF	-	√
b	Consent for Establishment' from the State Pollution Control Board	-	√
c	NOC from Atomic Mineral Division	-	√
d	Mining plan approval from IBM / Ministry of Coal	√	-

e	In case of existing mines, mining scheme approval from IBM	-	√
f	Forestry clearance under FCA, 1980	-	√
g	NOC from Chief Controller of Explosives	-	√
h	Commitment regarding availability / pumping of water from the concerned Authorities	√	-
i	In case of ML area falling in notified areas of the Central Ground Water Authority, NOC from them.	-	√
[* Annex copies of approvals and number them]			
50	**Was / is there any court case relating to the project or related activities? If so, provide**	No	

****

Annexure –X

(DSR letter, West Champaran)

समाहरणालय, पश्चिम चम्पारण, बेतिया।

(खनन शाखा)

पत्रांक 460 /खनन, बेतिया, दिनांक 14/05/2022

प्रेषक,

समाहर्त्ता,
पश्चिम चम्पारण, बेतिया।

सेवा में,

सदस्य सचिव,
SEIAA बिहार, पटना।

विषयः पश्चिम चम्पारण जिला से संबंधित DSR में वांछित सुधार कर SEIAA बिहार को उपलब्ध कराने के संबंध में।

प्रसंगः SEAC बिहार का पत्रांक 199/पटना, दिनांक 05.05.2022 एवं निदेशक, खान एवं भूतत्व विभाग बिहार पटना का पत्रांक 1796/एम०, पटना, दिनांक 08.04.2022

महाशय,

उपर्युक्त विषयक प्रासंगिक पत्र के संबंध में कहना है कि SEAC बिहार के पत्रांक 199/पटना, दिनांक 05.05.2022 में दिये गए निदेश/दिप्पणी के अलोक में पश्चिम चम्पारण जिला से संबंधित जिला सर्वेक्षण प्रतिवेदन (DSR) प्रारूप में वांछित सुधार कर एवं अनुमंडलीय समिति से अनुमोदनोरान्त अग्रेतर कार्रवाई हेतु भेजी जा रही है।

अनुलग्नक :– यथोक्त।

विश्वासभाजन,

समाहर्त्ता,
पश्चिम चम्पारण, बेतिया।

SEIAA, BIHAR
Amit 489
17 MAY 2022
प्राप्त किया

ख.

अनुमण्डल पदाधिकारी, सदर, बगहा एवं नरकटियागंज, पश्चिम चम्पारण, बेतिया, अनुमण्डलीय समिति की संयुक्त अध्यक्षता में दिनांक 13.05.2022 को सम्पन्न जिला सर्वेक्षण प्रतिवेदन (DSR) से संबंधित बैठक की कार्यवाही:–

उपस्थिति:– पंजी के अनुसार

कार्यवाही:– सर्वप्रथम अनुमंडल पदाधिकारी, सदर, बगहा एवं नरकटियागंज, पश्चिम चम्पारण, बेतिया के द्वारा बैठक में उपस्थित अनुमंडलीय समिति के अन्य सभी सदस्यों का स्वागत करते हुए बैठक की कार्यवाही प्रारंभ की गई। खनिज विकास पदाधिकारी, पश्चिम चम्पारण, बेतिया के द्वारा बैठक में उपस्थित सभी सदस्यों को अवगत कराया गया कि माननीय उच्चतम न्यायालय द्वारा सिविल अपील सं०– 3661–3662/2020 बिहार राज्य एवं अन्य बनाम पवन कुमार एवं अन्य के मामले में दिनांक 10.11.2021 को पारित अंतरिम आदेश के अनुपालन में तथा खान एवं भूतत्व विभाग, बिहार, पटना से प्राप्त निदेशानुसार पश्चिम चम्पारण जिलान्तर्गत गठित अनुमण्डलीय स्तरीय समिति द्वारा तैयार किये गये जिला सर्वेक्षण प्रतिवेदन (DSR) प्रारूप को पूर्व में समाहर्त्ता, पश्चिम चम्पारण, बेतिया के माध्यम से बिहार राज्य स्तरीय आंकलन समिति (SEAC, BIHAR) को आंकलन हेतु उपलब्ध कराया गया था। जिसे बिहार राज्य स्तरीय आंकलन समिति (SEAC, BIHAR) के द्वारा अंकित टिप्पणी/ निदेश के आलोक में खान एवं भूतत्व विभाग, बिहार, पटना के आदेशानुसार SSMMG-2016 एवं EMGSM-2020 के अनुसार संबंधित DSR को सुधार कर सक्षम प्राधिकार को ससमय उपलब्ध कराते हुए जिला सर्वेक्षण प्रतिवेदन (DSR) बिहार राज्य स्तरीय आंकलन समिति (SEAC, BIHAR) द्वारा दिनांक 27.04.2022 को आहूत बैठक की कार्यवृति में अंकित टिप्पणी/निदेश की प्रति अपने पत्रांक 199/दिनांक 05.05.2022 द्वारा उपलब्ध कराया गया है। उपलब्ध कराये गये कार्यवृत के AGENDA ITEM 15 (पन्द्रह) के Query के अनुपालन में समिति द्वारा निम्न निराकरण (Compliance) करने का निर्णय लिया गया है:–

The observation and the recommendation of SEAC-Bihar committee and their compliances done by DSRCommittee are as:-

OBSERVATION OF THE SEAC COMMITTEE

Sr. No.	Conditions	Compliance	Page No.
i	"Gangetic Dolphin Habitation Zone Area/ Other Aquatic Animal Habitation Zone Area" was not shown in the DSR with details map.	Undertaking regarding Aquatic animal & Map of Gangetic Dolphin habitation zone Area is attached as **Enclosure-I**	---
ii	Verify all sand ghats on Gandak river, because it is habitation for various species of turtles, Gharial , mugger and Gangetic Dolphin.	Ghats on Gandak river have been made by considering this point. An undertaking regarding this is attached as **Enclosure-I.**	---
iii	Collect the local information and from the concerned Forest Department for identification of such habitation of wildlife.	Informations have been collected from local persons and forest department regarding habitation of wildlife. All the proposed sand ghats are out of the habitation of the wildlife area. Distance between proposed ghat and and the proposed sand ghats are given in page no-34	**34**

	The DSRs should be placed in the public domain for at least one month from the date of publication of the advertisement for obtaining comments of the general public. The comments so received shall be placed before the concerned sub-divisional committee for active consideration. Only after such consultations, the DSR should be submitted before the SEAC. [As per procedures laid down in EMGSM - 2020 (Page No. 19 (P)]	DSR has been placed on the public portal on and advertised in local newspapers on dated 01/04/2022 to receive comments from public, advertisement regarding this is attached as **Enclosure-VI.**	
v	The Committee observed that sand ghats have been proposed on the confluence/meanders/concavities/active Channels which require to be excluded from the DSR. No mining area should be proposed at any river bank concavities to avoid band erosion and river instability.	No any sand ghats are being proposed on the confluence/ meanders/ concavities/ active Channels in DSR Safety distance have been left from the bank of the river to avoid band erosion and river instability. List of sand ghats with their co-ordinates are present in Page no- 9-15.	9-15
vi	Proposed Sand Ghats to include the certificate from the concerned Forest Department for distance from Wildlife Protected Areas (WPA) or about the location of any sand ghat in the notified Eco-Sensitive Area or Forest area if any.	A request letter has been sent to the concerned department. Very soon the certificates regarding this will be received from the department.	
vii	Average length and width of river and all	Average length & width of all the	9-15 & 34
	the proposed sand ghats not provided. To check the proportion of the total river length/area taken up for sand mining in the light of the provision that only 60% of the river area should be allowed for sand mining in a district.	proposed sand ghats are given in page n0-9-15 Proposed Sand mining area is less than the 60% of the river area of the district., Details is given in page no 34	
viii	The DSR should' justify through figures and map, to prove that only maximum 60% of the total river area in the district is subjected to sand mining (including both the existing and proposed sand ghats).	List of existing and proposed sand ghats area is much smaller than the 60%of the river area in the district. River wise figure is given in page no- 34	34
ix	All the Annexure as prescribed in the EMGSM, 2020 should be duly filled and complete.	All the annexures are attached with this DSR as prescribed in the EMGSM, 2020.	–
x	The District administration Should Display a Board mentoring the eco-sensitive zone of the nearest Wildlife Sanctuary Near (10km) in the Sand Mining Area whenever applicable.	The district administration will display a Board mentoring the eco-sensitive zone of the nearest Wildlife Sanctuary Near (10km) in the Sand Mining Area.	–
xi	Old and new proposed Ghats must be mentioned in all the DSR. (List, Map & KML file). This will form the part of the record submitted.	List of Existing & proposed sand ghats are given in page no-6-15	6-15
xii	District Border line (Bold mark) should be mentioned in the maps/images/KML file in all DSR.	A composite map showing all ghats in the district as well as the District border line is attached as **Enclosure-V.** The KML of the same has been submitted with the soft copy.	—

xiii	Remove Barariha Sand Ghat, which is located on the concavity of the river.	Barariha sand ghat has been removed from the list of proposed sand ghats.	---
xiv	The concerned District Authority, while during presentation (also mentioned in the DSR) mentioned that the replenishment data was calculated based on the level difference (Reduced Level - RL) as construed by the said District Authority based on the information obtained from the google map. The Committee rejected these figures and directed the concerned district Authority to present the data which was exactly collected in the field for each sand ghat with mention about the type of methodology and instruments used for the said exercise.	No any recent replenishment data (In last 2 years) are available for the rivers in the district, therefore not applicable.	---
xv	FMISC (Flood Management Improvement Support Center), a R&D unit under WRD (Water Resource Department) at Anishabad has resolution satellite maps of river systems of Bihar. District Authorities may contact the office of FMISC for procurement of geo-referenced map of the river to support the DSR.	We have approached FMISC (Flood Management Improvement Support Center), for Recent satellite color images. As per their suggestion, we have included recent satellite images of sand ghats in this DSR. Refer **Enclosure II & V.** Maps received from FMISC is attached as **Enclosure-VII.**	---

इसके साथ पूर्व में तैयार किये गये जिला सर्वेक्षण प्रतिवेदन (DSR) प्रारूप में उपर्युक्त के अनुसार Revised Information के साथ मुख्य रूप से अन्य संशोधन किया गया है।

समिति द्वारा जिला सर्वेक्षण प्रतिवेदन (DSR) संशोधन प्रारूप को समाहर्त्ता, पश्चिम चम्पारण, बेतिया के अनुमोदनोपरांत (SEIAA, BIHAR), पटना को उपलब्ध कराने का निर्णय लिया गया है।

अंत में धन्यवाद ज्ञापन के साथ बैठक की कार्यवाही समाप्त की गयी।

13.05.22
13/5/22 DCLR Bettiah
13/5/22 E.E. FCD, Bagaha
13/5/22 DLR Bagaha
13/05 DCLR NKE
13/5/22 S.D.M NKE
13.5.22 SDM Bagaha

ज्ञापांक ...../ खनन, बेतिया, दिनांक.....

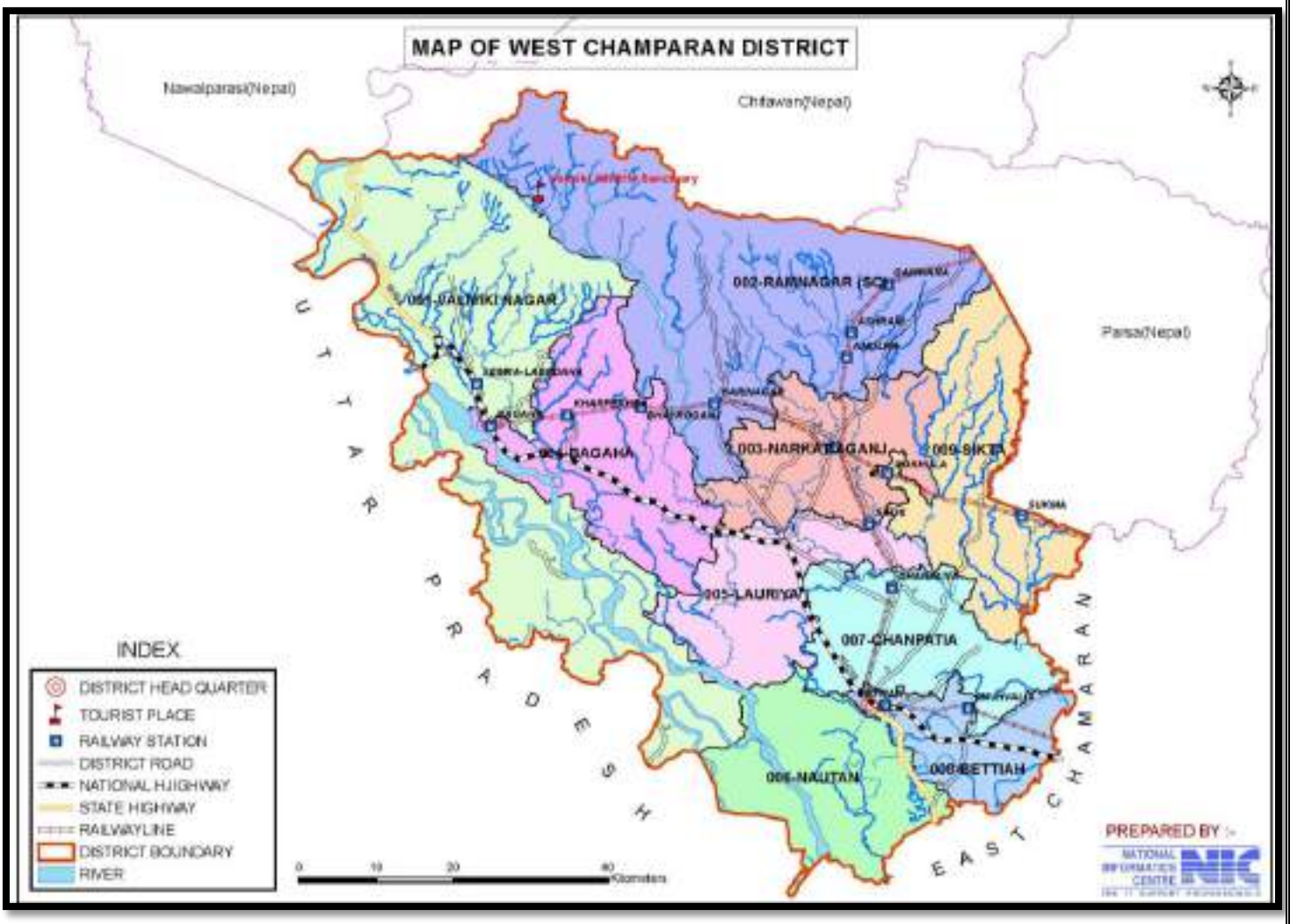
प्रतिलिपि: जिला पदाधिकारी, पश्चिम चम्पारण, बेतिया को सादर सूचनार्थ प्रेषित।
प्रतिलिपि: निदेशक, खान एवं भूतत्व विभाग, बिहार, पटना को सादर सूचनार्थ प्रेषित।
प्रतिलिपि: अध्यक्ष, SEAC, बेल्ट्रॉन भवन, शास्त्रीनगर, बिहार, पटना को सादर सूचनार्थ प्रेषित।

13.05.22
13/5/22 DCLR Bettiah
13/5/22 E.E. FCD, Bagaha
13/5/22 DLR Bagaha
13/05/2022 R.O.F Bettiah
13/05 DCLR NKE
13/5/22 S.D.M NKE
13.5.22 SDM Bagaha

District Survey Report of West Champaran District

For

Sand mining or River bed Mining



Prepared under

A] Appendix –X of MoEFCC, GoI notification S.O. 141(E) dated 15.1.2016
B] Sustainable Sand Mining Guidelines, 2016
C] MoEFCC, GoI notification S.O. 3611(E) dated 25.07.2018
D] Enforcement and Monitoring Guidelines For Sand Mining - January 2020

12.Additional Information

Drainage system with description of main river			
S.No	**River names**	**Area drained in District (sq. km)**	**Total Length of the River**
1	**Gandak**	362	814
2	**Masan**	68	90
3	**Maniyari**	2.8	40
4	**Harbora**	10.75	49
5	**Biraha**	4.5	38

Salient Features of Important River and Streams				
S.no	**Name of the River Stream**	**Total Length in the District (in km)**	**Place of Origin**	**Altitude at Origin**
1	**Gandak**	90	Tibet near Nepal border	6268
2	**Masan**	62	Someshwar hills	167
3	**Maniyari**	32	Hilly area of Balmiki tiger reserve	175
4	**Harbora**	43	Someshwar hills	143
5	**Biraha**	30	Hilly area of West Champaran	152

Name Of the River	Portion of the river stream recommended for mineral concession	Length of area recommended for mineral concession (in KM)	Length of area recommended for mineral concession (in meter)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in square meters)	Volume recommended for mineral concession (in cum)	Mineable Mineral Potential (in metric tonne) 60% of total mineral potential
Gandak	Only commercial viable zones are recommended for mineral concession to get economic feasibility	10.644	10644	370	3938280	3938280	5671123.2
Masan		1.677	1677	129	216333	216333	312817.518
Maniyari		0.646	646	69	44574	44574	64721.448
Harbora		0.278	278	77	21406	21406	31466.82
Biraha		0.343	343	35	12005	12005	17359.23

Note:- Specific gravity of sand are as: Gandak= 2.40, Masan = 2.41, Maniyari=2.42, Harbora= 2.45, Biraha= 2.41

(Source : - Report, NABL approved Laboratories)

Compare between Area proposed for mining & total river area of the district:-

River Name	Existing ghats area in Ha	Proposed sand ghat in Ha	Total area (Existing +Proposed)	Area of the river in the district in Ha	Percentage of the area compare to river area
Gandak	11.58	454.23	465.81	36200	1.28 %
Harbora	3.27	1.66	4.93	6800	0.07%
Masan	7.79	22.77	30.56	280	10.91%
Biraha	Not present	0.82	0.82	1075	0.07%
Maniyari	Not present	1.82	1.82	182	1%

Methodology Adopted For Calculation Of Mineral Potential

The mineral potential is calculated based on field investigation and geology of the catchment area of the river or streams. As per the site conditions and location, depth of minable mineral is defined. The area for removal of the mineral in river or stream can be decided depending on geo-morphology and other factors.

The specific gravity of sand are Gandak= 2.40, Masan = 2.41, Maniyari=2.42, Harbora= 2.45, Biraha= 2.41. The quantum of deposition varies from stream to stream depending upon factors like catchment lithology, discharge, river profile and geomorphology of the river course. There are certain geomorphological features developed in the river beds such as channel bar, point bar etc.

ANNEXURE-I

Compliance to Enforcement and Monitoring Guidelines for Sand Mining- 2020

Details of Sand/M-Sand Sources

a) Rivers:-

River Name/M-Sand Plant	Total Stretch of River (in KM)	Type of River (Perennial or Non-Perennial)
Gandak	814	**Perinnial**
Masan	90	**Non-Perennial**
Maniyari	40	**Non-Perennial**
Harbora	49	**Non-Perennial**
Biraha	38	**Non-Perennial**

b) De-Siltataion Location: (Lakes/Ponds/Dams etc.)

Name of Reservoir/Dams	Maintain/ Controlled by State Govt. / PSU etc.	Location	District	Tehsil	Village	Size(Ha
No any de-siltation location is present						

c) Patta Lands/Khatedari Land:

Owner	Sy. No	Area (Ha)	District	Tehsil	Village	Agricultural Land (Yes/No)
No any Patta Lands/Khatedari Land is present						

d) M-Sand Plants:

Plant Name	Owner	District	Tehsil	Village	Geo-location	Quantity Tonnes/Annum
No any M-Sand Plants is present						

ANNEXURE-II

List of Potential Mining Leases (existing & proposed)

Rivers

River Details	Lease Details	Area (in Ha)	Distance (in KM) from PA/BR/ WC/	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in Tonnes /Annum considering digging depth max as 3 meters	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing / Proposed
Gandak	Jarar Sand Ghat	24.80	NA	9.6	NA	595200	Sand	Proposed
Gandak	Saurah Sand Ghat	4.73	NA	More than 10 km	NA	113520	Sand	Proposed
Gandak	Ranglalahi Ghat	97.3	NA	More than 10 km	NA	2335200	Sand	Proposed
Gandak	Semrbari Parsauni Ghat	13.7	NA	More than 10 km	NA	328800	Sand	Proposed
Gandak	Chiwahiniya Ghat	64.3	NA	More than 10 km	NA	1543200	Sand	Proposed
Gandak	Jagiraha Ghat	22.7	NA	More than 10 km	NA	544800	Sand	Proposed
Gandak	Nautan Guruhlaliya Tharaha Ghat	88.8	NA	9.7	NA	2131200	Sand	Proposed
Gandak	Singahi Sand Ghat	41.0	NA	5.3	NA	984000	Sand	Proposed
Gandak	Damodarpur	70.9	NA	7.8	NA	1701600	Sand	Proposed

River Details	Lease Details	Area (in Ha)	Distance (in KM) from PA/BR/ WC/	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in Tonnes /Annum considering digging depth max as 3 meters	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing / Proposed
	Sand Ghat							
Gandak	Dih Bharahua Ghat	26.0	NA	9.4	NA	624000	Sand	Proposed
Masan	Murera Ghat	15.6	NA	More than 10 km	NA	375960	Sand	Proposed
Masan	Pipra Ghat	6.43	NA	More than 10 km	NA	154963	Sand	Proposed
Masan	Mahui Ghat	0.74	NA	More than 10 km	NA	17834	Sand	Proposed
Maniyari	Bhaathuhawa Ghat	1.48	NA	7.8 km from WLS & 1.25 from PF	NA	35816	Sand	Proposed
Harbora	Bairia	1.66	NA	9.1 km from WLS	NA	40670	Sand	Proposed
Biraha	Pakri Ghat	0.49	NA	6.1 km from WLS & 3.0 KM from PA	NA	11809	Sand	Proposed
Biraha	Sirhwa Ghat	0.33	NA	7.0 KM from WLS & 3.5 km from PA	NA	7953	Sand	Proposed

Note:- Proposed minable mineral quantity have been calculated as per SEAC- Minutes of Meeting dated 18-01-2022 by considering 1 meter depth because Replenishment study is not done properly for the above mentioned rivers.

Patta Lands/Khatedari Land: (existing & proposed)

Owner	Sy. No	Area	District	Tehsil	Village	Total reserve (MT)	Total mineral to be mined (MT)	Existing / Proposed
No any Patta Lands/Khatedari Land: (existing & proposed) is present								

De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed)

Name of Reservoir/Dams	Maintain/Controlled by state Govt./PSU etc	Location	District	Tehsil	Village	Size (Ha)	Quantity MT/Year	Existing / Proposed
No any De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed) is present								

M-Sand Plants :(existing & proposed)

Plant Name	Owner	District	Tehsil	Village	Geo-location	Quantity Tonnes/Annum	Existing/Proposed
No any M-Sand Plants :(existing & proposed)is present							

ANNEXURE-III

Cluster & Contiguous Cluster details

Clusters:

River Name	Cluster No.	Lease No	Location (Riverbed / Patta Land)	Village	Area (in Ha)	Total Excavation (Ton)	Total Mineral Excavation (Ton)
No any cluster is present							

Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed / Patta Land)	Distance between clusters	Village	Area of Cluster (Ha)	Total Mineral Excavation (Ton)
No any Contiguous Clusters are present								

ANNEXURE-IV

Transportation Routes for individual leases and leases in Cluster

Lease No	Transportation Route No	Number of tippers /day of lease	Number of tippers /day of all the lease on route	Length of Route in KM	Type of Road (Black Topped/ unpaved)	Recommendation for road(Black Topped/ unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
Once the lease will be finalized, the transportation routes will be finalized accordingly before the starting of mining operation.								

Cluster No	Transportation Route No	Number of tippers /day of cluster	Number of tippers /day of all the cluster on route	Length of Route in KM	Type of Road (Black Topped/ unpaved)	Recommendation for road (Black Topped/ unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
No any cluster is present, so not applicable								

ANNEXURE-V

Final List of Potential Mining Leases (existing & proposed) Rivers

River Details	Lease Details	Area (in Ha)	Distance (in KM) from PA/BR/ WC/	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in Tonnes /Annum considering digging depth max as 3 meters	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing / Proposed
Gandak	Jarar Sand Ghat	24.80	NA	9.6	NA	595200	Sand	Proposed
Gandak	Saurah Sand Ghat	4.73	NA	More than 10 km	NA	113520	Sand	Proposed
Gandak	Ranglalahi Ghat	97.3	NA	More than 10 km	NA	2335200	Sand	Proposed
Gandak	Semrbari Parsauni Ghat	13.7	NA	More than 10 km	NA	328800	Sand	Proposed
Gandak	Chiwahiniya Ghat	64.3	NA	More than 10 km	NA	1543200	Sand	Proposed
Gandak	Jagiraha Ghat	22.7	NA	More than 10 km	NA	544800	Sand	Proposed
Gandak	Nautan Guruhlaliya Tharaha Ghat	88.8	NA	9.7	NA	2131200	Sand	Proposed
Gandak	Singahi Sand Ghat	41.0	NA	5.3	NA	984000	Sand	Proposed
Gandak	Damodarpur Sand Ghat	70.9	NA	7.8	NA	1701600	Sand	Proposed

River Details	Lease Details	Area (in Ha)	Distance (in KM) from PA/BR/ WC/	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in Tonnes /Annum considering digging depth max as 3 meters	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing / Proposed
Gandak	Dih Bharahua Ghat	26.0	NA	9.4	NA	624000	Sand	Proposed
Masan	Murera Ghat	15.6	NA	More than 10 km	NA	375960	Sand	Proposed
Masan	Pipra Ghat	6.43	NA	More than 10 km	NA	154963	Sand	Proposed
Masan	Mahui Ghat	0.74	NA	More than 10 km	NA	17834	Sand	Proposed
Maniyari	Bhaathuhawa Ghat	1.48	NA	7.8 km from WLS & 1.25 from PF	NA	35816	Sand	Proposed
Harbora	Bairia	1.66	NA	9.1 km from WLS	NA	40670	Sand	Proposed
Biraha	Pakri Ghat	0.49	NA	6.1 km from WLS & 3.0 KM from PA	NA	11809	Sand	Proposed
Biraha	Sirhwa Ghat	0.33	NA	7.0 KM from WLS & 3.5 km from PA	NA	7953	Sand	Proposed

Note:- Proposed minable mineral quantity have been calculated as per SEAC- Minutes of Meeting dated 18-01-2022 by considering 1 meter depth because Replenishment study is not done properly for the above mentioned rivers.

Patta Lands/Khatedari Land: (existing & proposed)

Owner	Sy. No	Area	District	Tehsil	Village	Total Reserve (MT)	Total Mineral to be mined (MT)	Existing /Proposed
No any Patta Lands/Khatedari Land: (existing & proposed) is present								

De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed)

Name of Reservoir/ Dams	Maintain/ Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size(Ha)	Quantity MT/Year	Existing/ Proposed
No any De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed) is present								

M-Sand Plants :(existing & proposed)

Plant Name	Owner	District	Tehsil	Village	Geo-Location	Quantity MT/Annum	Existing/Proposed
No any M-Sand Plants :(existing & proposed) are present							

ANNEXURE-VI

Final List of Cluster & Contiguous Clusters

Clusters:-

River Name	Cluster No.	Lease No	Location (Riverbed / Patta Land)	Village	Area (in Ha)	Total Excavation (Ton)	Total Mineral Excavation (Ton)
No any cluster is present							

Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed /Patta Land)	Distance between clusters	Village	Area of Cluster (in Ha)	Total Mineral Excavation (Ton)
No any Contiguous Clusters are present								

ANNEXURE-VII

Final Transportation Routes for individual leases and leases in Cluster

Lease No	Transportation Route No	Number of tippers /day of lease	Number of tippers /day of all the lease on route	Length of Route in KM	Type of Road (Black Topped/ unpaved)	Recommendation for road(Black Topped/ unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
Once the lease will be finalized, the transportation routes will be finalized accordingly before the starting of mining operation.								

Cluster No	Transportation Route No	Number of tippers /day of cluster	Number of tippers /day of all the cluster on route	Length of Route in KM	Type of Road (Black Topped/ unpaved)	Recommendation for road(Black Topped/ unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
No any cluster is present, so not applicable								