Annexure –I

Letter of Intent (LOI)

सगाहरणालय, नालन्दा
(खनन शाखा)

पत्रांक 1985 /खनन, नालन्दा दिनांक: 23 / 12 / 2022	फोन नं० :– 06112–235203(O), 06112–235204, 235205(R) ई–मेल :– dm-nalanda.bih@nic.in

प्रेषित,

श्री विमल कुमार,
पिता– श्याम सुन्दर यादव,
मोहल्ला– कुर्जी, पो०– कुर्जी मोड,
थाना– दीघा, जिला– पटना पिन– 800010
ई–मेल– vimal9334575@gmail.com
मो०– 9334575112

विषयः– **नालन्दा जिलान्तर्गत लोकाईन 5 बालूघाट (नदी का नाम– लोकाईन नदी, बालूघाट संख्या–08) की आगामी पाँच वर्षों के लिए बन्दोबस्ती हेतु दिनांक–25.11.2022 को सम्पन्न ई–नीलामी में उच्चतम डाकवक्ता घोषित होने के फलस्वरूप सैद्धांतिक स्वीकृत्यादेश के संबंध में।**

महाशय,

उपर्युक्त विषयक नालन्दा जिलान्तर्गत **लोकाईन 5 बालूघाट (नदी का नाम– लोकाईन नदी, बालूघाट संख्या–08), रकवा–8.25 हेक्टेयर** की आगामी पाँच वर्षों के लिए बन्दोबस्ती हेतु दिनांक–25.11.2022 को सम्पन्न ई–नीलामी में आपके द्वारा रू0– 37,12,500/– (सैंतीस लाख बारह हजार पाँच सौ रू0 मात्र) की सुरक्षित जमा राशि के विरूद्ध **उच्चतम डाक की राशि रू0– 44,55,000/– (चौवालिस लाख पचपन हजार रू0 मात्र)** की बोली लगाये जाने के फलस्वरूप आप उच्चतम डाकवक्ता घोषित हुए हैं। 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– 11,13,750/– (ग्यारह लाख तेरह हजार सात सौ पचास रू0 मात्र)** के भुगतान का साक्ष्य दिनांक–29.11.2022 को कार्यालय में प्रस्तुत किया गया है।

निविदा दस्तावेज की कंडिका 20(i) (ii) (iii) (iv) (v) के आलोक में जिलान्तर्गत लोकाईन 5 बालूघाट (नदी का नाम– लोकाईन नदी, बालूघाट संख्या–08) का सैद्धांतिक स्वीकृति के शर्त्त एवं बंधेज निम्नवत् हैः–

1. बालूघाट संख्या–08 से संबंधित विवरणी निम्नवत् हैः–

क्र0 संख्या	नदी का नाम	रकवा (हेक्टेयर में)	Geo Coordinates	
			Latitude	Longitude
1	लोकाईन (Lokain)	8.25	25°13'49.76"N	85°9'37.28"E
			25°13'49.22"N	85° 9'43.54"E
			25°14'8.51"N	85° 9'42.66"E
			25°14'8.52"N	85° 9'39.05"E
2	वन क्षेत्र से दूरी		लागू नहीं	
3	सुरक्षित क्षेत्र/वन अभ्यारण्य क्षेत्र/पक्षी अभ्यारण्य/वन्य जीव आश्रयण क्षेत्र से दूरी		लागू नहीं	
4	बालूघाट/बालूखण्ड से 500 मीटर के अन्दर खनन पट्टा क्षेत्र की स्थिति		लागू नहीं	
5	पुरातात्विक स्थल से दूरी		लागू नहीं	
6	खनन योग्य मात्रा		102960 MT	

2. भुगतान की शर्त्तेः–

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

(ii) प्रतिभूति जगा के अतिरिक्त आपको निम्नलिखित समय सारणी/भुगतान अनुसूची के अनुसार बन्दोबस्ती की राशि का भुगतान करना होगाः–

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 06 महीना पूरा होने से पहले।

3. **GST का भुगतानः–** जी0एस0टी0 के रूप में प्रचलित दर के अनुसार राशि वाणिज्य कर विभाग को भुगतान करना होगा। जिला खनन कार्यालय, नालन्दा में जी0एस0टी0 भुगतान का प्रमाण प्रत्येक किस्त के साथ देना होगा।
4. **आयकर/अन्य करों का भुगतानः–** 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, नालन्दा 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, नालन्दा के नाम भुगतेय बैंक ड्राफ्ट के माध्यम से करना होगा।
6. **वैधानिक अनापत्ति :–**बालूघाट संचालन हेतु आवश्यक समस्त वैधानिक अनापत्ति/अनुमति यथाः– खनन योजना, पर्यावरणीय स्वीकृति, जल एवं वायु सहमति आदि निर्धारित अवधि के अन्दर आपके द्वारा प्राप्त करना होगा। वैधानिक अनापत्ति/अनुमति प्राप्त करने के पश्चात् ही बालू खनन प्रारंभ किये जाने हेतु कार्यादेश निर्गत किया जा सकेगा।
–वैधानिक अनापत्ति/अनुमति निम्नानुसार हैः–

i. **खनन योजनाः–** खनन योजना प्रभावी नियमों में उल्लेखित प्रावधानों के अनुसार सफल डाकवक्ता/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 डाकवक्ता/बन्दोबस्तधारी द्वारा किया जायेगा। साथ ही खनन योजना की जाँच हेतु समाहर्त्ता/विभाग अन्य एजेंसी चयनित कर सकेगा, जिसका निर्धारित फीस/खर्च भी बंदोबस्तधारी को ही वहन करना होगा। सफल डाकवक्ता/बन्दोबस्तधारी खनन योजना के अनुसार खनन करना सुनिश्चित करेंगे।

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

iii. **जल एवं वायु सहमतिः–** पर्यावरणीय स्वीकृति प्राप्त करने के पश्चात् सफल डाकवक्ता 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 मात्राः–** खनन योजना, पर्यावरणीय स्वीकृति तथा जल (प्रदूषण निवारण एवं नियंत्रण) अधिनियम 1974 तथा वायु (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1981 के तहत् 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 हैं या प्राप्त करने में रूचि नहीं लेते हैं तो, समाहर्त्ता द्वारा अग्रधन की राशि को जप्त कर लिया जायेगा।

7. <u>बन्दोबस्ती विलेख/पटटा संविदा (डीड) निष्पादन करना:–</u>

i. सफल डाकवक्ता द्वारा सभी वैधानिक अनापत्ति प्राप्त करने के उपरान्त 5 वर्षों की अवधि के लिए बालू खनन करने हेतु समानुदान/बन्दोबस्ती स्वीकृत किया जाएगा। सफल डाकवक्ता 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 डाकवक्ता/बन्दोबस्तधारी द्वारा बन्दोबस्ती प्रत्यर्पण/कारोबार छोड़ने का विकल्प बिहार खनिज (समानुदान, अवैध खनन, परिवहन एवं भण्डारण निवारण) नियमावली, 2019 के नियम–50 के अनुरूप किया जा सकेगा।

9. <u>सामान्य शर्त्तें:–</u>

(i) निविदादाता/सफल डाकवक्ता/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 समाहर्त्ता को उपलब्ध कराना एवं पोर्टल पर अपलोड/उपलब्ध करायेंगे।

(iii) बन्दोबस्तधारी नदी तट से बालू प्रेषण 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 डाकवक्ता/बन्दोबस्तधारी द्वारा स्वयं अपने खर्च से किया जाएगा।

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

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

(viii) सफल डाकवक्ता/बन्दोबस्तधारी समाहर्त्ता द्वारा बालूघाटों के संचालन के संबंध में लोकहित में जारी निबंधनों और शर्त्तों तथा निदेशों का पालन करेगा।

(ix) यथोक्त शर्त्तों, 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, नालन्दा 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 RQP/ अंचलाधिकारी की उपस्थिति में प्रमाणित कर बालूघाटों के निर्धारित क्षेत्र का Reduced Level (RL)/Pre-Level (PL) एवं Satelite images खनन कार्य प्रारंभ करने के पहले जिला खनन कार्यालय, नालन्दा 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 मुआवजा/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 ईलेक्ट्रॉनिक माध्यम से भेजी गयी कोई भी सूचना/निदेश/आदेश इत्यादि IT-Act के तहत् स्वीकार्य साक्ष्य के रूप में माना जाएगा।

समाहर्त्ता
नालन्दा।

Annexure –II

(Mine Plan Approval Letter)

(12)

बिहार सरकार
खान एवं भूतत्व विभाग।

पत्रांक– 2133 /एम0, पटना, दिनांक– 19/05/2023

प्रेषक,

सुरेश प्रसाद,
विशेष कार्य पदाधिकारी।

सेवा में,

Email

श्री विमल कुमार,
पिता– श्याम सुन्दर यादव,
मोहल्ला– कुर्जी, पो0– कुर्जी मोड,
थाना– दीघा, जिला– पटना पिन– 800010
ई–मेल– vimal9334575@gmail.com

विषयः– **नालन्दा जिलान्तर्गत लोकाईन 5 बालूघाट (नदी का नाम– लोकाईन नदी, बालूघाट संख्या–08) 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 संशांधित 2021) के नियम–17 में वर्णित प्रावधानों के तहत् **नालन्दा जिलान्तर्गत लोकाईन 5 बालूघाट (नदी का नाम– लोकाईन नदी, बालूघाट संख्या–08)** से संबंधित समर्पित खनन योजना के अनुमोदन पर प्राधिकृत समिति द्वारा समीक्षा की गई। समीक्षोपरांत निम्न शर्त्तों एवं बंधेजों के तहत् खनन योजना अनुमोदित की जाती 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, EMGSM 2020 तथा अन्य सभी सुसंगत अधिनियम/ नियमावली तथा उनमें वर्णित प्रावधानों के प्रतिकूल नही होगा। लीज के रकवा 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 खनन् कार्यों से संबंधित सम्पूर्ण जबाबदेही बालूघाट संचालनकर्त्ता 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 ऑकड़ों की सत्यता / वैधता की जिम्मेवारी RQP/बंदोबस्तधारी की होगी तथा भविष्य में उपर्युक्त के संबंध में किसी प्रकार की भिन्नता/अनियमितता की पूरी जबावदेही RQP/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 हों।

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 होगें 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 क्रम में संधारित कराना सफल डाकवक्ता/बंदोबस्तधारी की जवाबदेही होगी, जिसे RQP/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 खनन् 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 RQP द्वारा प्रत्येक पृष्ठ पर हस्ताक्षरित होगी, निदेशक, खान एवं भूतत्व विभाग के कार्यालय के अतिरिक्त समाहर्त्ता, नालंदा के गोपनीय कोषांग, उपनिदेशक, पटना अंचल 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 शर्त्तों के साथ **नालन्दा जिलान्तर्गत लोकाईन 5 बालूघाट (नदी का नाम– लोकाईन नदी, बालूघाट संख्या–08)** से संबंधित समर्पित खनन योजना के अन्तर्गत ही बालू उत्खनन् कार्य सुनिश्चित कराया जायेगा।

विश्वासभाजन

19.5.2023

(सुरेश प्रसाद)
विशेष कार्य पदाधिकारी

Annexure –III

(Public Hearing Proceedings)

थाना–गड़हनी,

लोक सुनवाई का वृत।

श्री दीनानाथ सिंह, पिता–श्री सत्यनारायण सिंह, ग्राम–लसारही, पो0–अगिआंव, थाना–गड़हनी, जिला–भोजपुर द्वारा नालंदा लोकाईन–03 एवं 06 बालूघाट, ग्राम+पी.ओ.–दनियावां, ब्लॉक– एकंगरसराय जिला–नालंदा के अन्तर्गत परियोजना से संबंधित पर्यावरणीय स्वीकृति के वास्ते पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के अधिसूचना सं0–एस.ओ.1533, दिनांक 14 सितम्बर, 2006 के तहत् दिनांक 02.09.2023 को पूर्वाह्न 11:30 बजे नालंदा जिला के अंचल कार्यालय, एकंगरसराय, जिला–नालंदा में लोक सुनवाई की गयी।

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार अधिसूचना सं0–एस.ओ. 1533, दिनांक 14 सिम्बर 2006 एवं यथा संशोधित के तहत् राज्य स्तरीय पर्यावरणीय समाघात निर्धारण प्राधिकरण, बिहार के द्वारा निर्गत TOR File.No.SIA/1(a)/2434/2023, dated 09.06.2023 के आलोक में श्री मंजीत कुमार, अपर समाहर्त्ता, नालंदा (जिला पदाधिकारी, नालंदा के प्रतिनिधि) की अध्यक्षता में बिहार राज्य प्रदूषण नियंत्रण पर्षद, द्वारा दिनांक 02.09.2023 को पूर्वाह्न 11:30 बजे अंचल कार्यालय, एकंगरसराय, जिला–नालंदा में लोक–सुनवाई आयोजित की गयी। अपर समाहर्त्ता, नालंदा V.C. के माध्यम से उपस्थित हुए। उपस्थिति पंजी संलग्न (**अनुलग्नक–1**)

इस लोक–सुनवाई की सूचना बिहार राज्य प्रदूषण नियंत्रण पर्षद् द्वारा दैनिक समाचार पत्रों यथा हिन्दुस्तान एवं प्रभात खबर के माध्यम से दिनांक 29.07.2023 को प्रकाशित की गयी थी (**प्रतिलिपि संलग्न**)। लोक–सुनवाई के दौरान श्री आशीष कुमार गुप्ता, क्षेत्रीय पदाधिकारी, बिहार राज्य प्रदूषण नियंत्रण पर्षद्, पटना द्वारा लोक–सुनवाई में उपस्थित जन–समुदाय एवं सभी संबंधित पदाधिकारियों का स्वागत करते हुए पर्यावरण, वन एवं जलवायु परिवर्त्तन मंत्रालय, भारत सरकार द्वारा अधिसूचित पर्यावरण प्रभाव मूल्यांकन अधिसूचना सं0–एस.ओ.1533, दिनांक 14 सितम्बर 2006 एवं यथा संशोधित के तहत् इकाई के पर्यावरणीय स्वीकृति हेतु लोक–सुनवाई की पृष्ठ–भूमि पर प्रकाश डाला गया। लोक हित में कार्य योजना से संबंधित सुनवाई के उद्देश्य से उपस्थित लोगों को अवगत कराया गया। साथ ही स्थानीय लोगों से पर्यावरण संरक्षण एवं लोक हित के संबंध में सुझाव/विचार/मंतव्य माँगा गया।

लोक सुनवाई कार्यक्रम के अध्यक्ष के अनुमति से परियोजना के पर्यावरणीय सलाहकार मो0 रासिद अफताब ने इकाई की खनन कार्य परियोजना, प्रदूषण नियंत्रण व्यवस्था एवं कॉरपोरेट पर्यावरण जिम्मेदारी (Corporate Environmental Responsibility) आदि के संबंध में आमजनों को विस्तृत रूप से अवगत कराया। इनके द्वारा सूचित किया गया कि खनन कार्य के उपरान्त परिवहन के दौरान उत्सर्जित होने वाले धूल–कण की रोक–थाम हेतु सड़को पर नियमति रूप से जल छिड़काव किया जायेगा । वाहनों पर ओवरलोडिंग नही की जायेगी। वाहनों को तिरपाल से ढ़क कर ले जाया जायेगा। खनन कार्य सतह से 01 मीटर की गहराई तक या भू–जल स्तर से ऊपर तक किया जायेगा। ध्वनि प्रदूषण को नियंत्रित करने हेतु ध्वनि यंत्र (हार्न) का न्यूनतम उपयोग किया जायेगा। पुराने एवं खराब वाहनों का इस्तेमाल नहीं किया जायेगा। सड़क के किनारे एवं खनन

पट्टा क्षेत्र में वृक्षारोपण (120 नं0)का कार्य किया जायेगा। बालू खनन के दौरान पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के Sustainable Sand Mining Management

Guidelines 2016 (SSMG-2016) एवं Enforcement & Monitoring Guidelines for Sand Mining-2020 (EMGSM-2020) के प्रावधानों का अनुपालन किया जायेगा।

परियोजना प्रस्तुततिकरण के पश्चात् उपस्थित महानुभावों द्वारा दिए गए सुझाव/ मंतव्य निम्नवतः हैः–

कमांक	नाम एवं पता	प्रतिकिया/सुझाव
1.	श्री रवीश कुमार, ग्राम–दनियावां, जिला–नालंदा।	इनके द्वारा पूछा गया कि बालू खनन परियोजना से स्थानीय लोग को क्या लाभ मिलेगा। पर्यावरणीय सलाहकार द्वारा बताया गया कि प्राथमिकता के आधार पर स्थानीय लोग को रोजगार प्रदान किया जायेगा। प्रत्यक्ष एवं अप्रत्यक्ष रूप से रोजगार का सृजन होगा। स्थानीय क्षेत्र के आस–पास ग्रीनवेल्ट विकास किया जायेगा, क्षेत्र में सामाजिक, आर्थिक वातावरण पर सकरात्मक प्रभाव पड़ेगा।
2.	श्री सुनील कुमार, ग्राम–दनियावां, जिला–नालंदा।	इनके द्वारा बताया गया कि बालू खनन परियोजना के दौरान परिवहन से सड़क को क्षति पहूँचती है। उसका रख–रखाव कौन करेगा। पर्यावरण सलाहकार द्वारा बताया गया कि बालू खनन परियोजना में बालू घाट से लेकर मुख्य सड़क तक का रख–रखाव संवेदक द्वारा किया जायेगा।
3.	श्री धीर गोप, ग्राम– दनियावां, जिला–नालंदा।	इनके द्वारा बताया गया कि बालू खनन परियोजना के दौरान परिवहन ट्रैक्टर द्वारा किया जाता है, धूल–कण उड़ने से समस्या होती है। पर्यावरण सलाहकार द्वारा बताया गया कि बालू खनन का परिवहन वाहन को तिरपाल से ढ़ककर किया जायेगा, जल–छिड़काव नियमित रूप से किया जायेगा एवं वृक्षारोपण की जायेगी। जिससे धूल–कण की समस्या को कम किया जायेगा।

अध्यक्ष द्वारा बताया गया कि बालू का उपयोग निर्माण कार्य में किया जाता है एवं राज्य का विकास होता है। विकास के साथ पर्यावरण पर भी ध्यान देना आवश्यक है।

अध्यक्ष द्वारा बताया गया कि वाहनों से बालू ले जाने के क्रम में नियमित रूप से परिवहन मार्ग पर जल छिड़काव करेगें एवं बालू से लदे वाहनों को तिरपाल से ढ़क कर ही ले जायेगें। बालू की खुदाई 1 मीटर ही करेगें। उन्होने उम्मीद जताया कि इकाई प्रबंधन द्वारा इन उपरोक्त बिन्दुओं पर गम्भीरता से ध्यान रखा जायेगा। साथ ही वैज्ञानिक तरीके से बालू खनन का कार्य एवं विभागीय निर्देश का अनुपालन किया जायेगा।

पौधों का रख–रखाव स्थानीय ग्रामीण के द्वारा ही सुनिश्चित कराया जाय।

उनके द्वारा बताया गया कि अगर काम प्रारंभ होगा तो सरकार को राजस्व की प्राप्ति होगी। स्थानीये लोगों को रोजगार प्राप्त होगा। गाँव की अर्थ–व्यवस्था में एवं प्रभावित क्षेत्र का विकास में तेजी आयेगी।

जन–सुनवाई के अंत में उपस्थित जनता के सुझाव को संग्रहित करते हुए सक्षम प्राधिकार को अग्रसारित करने का निर्णय लिया गया। तत्पश्चात् लोक सुनवाई सधन्यवाद समाप्त करने की घोषणा की गयी।

क्षेत्रीय पदाधिकारी
बि.रा.प्र.नि.पर्षद्,पटना

अपर समाहर्त्ता,
नालंदा

उपस्थिति सूचि

श्री दीनानाथ सिंह, द्वारा नालंदा लोकाईन–03 एवं 06 बालू घाट, ग्राम+पोस्ट–दनियावां, ब्लॉक–एकंगरसराय, जिला–नालंदा में आयोजित लोक–सुनवाई के दौरान उपस्थित व्यक्तियों की सूचीः

स्थान–अंचल कार्यालय ,एकंगरसराय दिनांक 02.09.2023 समय–11:30 A.M.

क्र.सं.	नाम	पता	हस्ताक्षर
1.	श्री संजीत कुमार	अपर समाहर्ता, नालन्दा	V.C. के माध्यम से उपस्थित
2.	आशीष कुमार गुप्ता	सेमरी-पहाड़पुरी कि० रा०ग० नि० पर्वत पटना	[illegible] 2-9-23
3.	[illegible] कुमार	कि० रा० ग० नि० पर्वत पटना	[illegible] 2/9/2023
4.	Alka Kumari	Mining Inspector, o/o Mogal Tower Hasjhl, Bihar	[illegible] 02/09/23
5.	दीनानाथ सिंह	दनियावां	दीनानाथ सिंह
6.	Quish Kumar	Rian Enviro Pvt Limited	MQuish
7.	Md Rashid Ahleb	Rean Enviro Pvt Ltd	Rashid
8.	अनिल कुमार	दनियावां	अनिल कुमार
9.	धनुषधारी यादव	दनियावां	Dhanush Ku.
10	नीरज कुमार	दनियावां	नीरज कुमार
11	रणवीर कुमार	दनियावां	रणवीर कुमार
12	Ranjit Kumar	दनियावां	[illegible]
13	अमरेन्द्र कुमार	दनियावां	अमरेन्द्र कुमार
14	Kaushal Kanjan	दनियावां	Kaushal Kanjan
15	मुन्ना कुमार	दनियावां	मुन्ना कुमार

16	महेश पंडित	धनियावाँ	महेश पंडित
17	संजय पासवान	धनियावाँ	संजय पासवान
18	सुनिल कुमार	धनियावाँ	सुनिल कुमार
19	पंकज कुमार	धनियावाँ	पंकज कुमार
20	गौतम कुमार	धनियावाँ	गौतम कुमार
21	कांशल कुमार	धनियावाँ	कांशल कुमार
22	प्रमेश यादव	धनियावाँ	प्रमेश यादव
23	MUKADHESH PD	SONIJAWAN	Mukesh Pandit
24	अशोक कुमार	सोनीजवा	अशोक कुमार
25	धर्मेन्द्र प्रसाद	धनियावाँ	धर्मेन्द्र प्रसाद
26	अरुण कुमार	धनियावाँ	अरुण कुमार
27	अजय कुमार	धनियावाँ	अजय कुमार
28	श्रीकान्त प्रसाद	धनियावाँ	श्रीकान्त प्रसाद
29	नन्द प्रसाद	धनियावाँ	नन्द प्रसाद
30	धीरगोप	धनियावाँ	धीरगोप
31	ओम प्रकाश	धनियावाँ	ओम प्रकाश
32	नवीन कुमार	धनियावाँ	Naveen Kr
33	अभिनाश कुमार	धनियावाँ	Abhinash Kumar
34	मनोज प्रसाद	धनियावाँ	मनोज प्रसाद

35	सुधीर गोप	धनियावाँ	सुधीर गोप
36	रामलाल कुमार	धनियावाँ	रामलाल कुमार
37	राजीव कुमार	धनियावाँ	राजीव कुमार
38	सुमन कुमार	धनियावाँ	सुमन कुमार
39	रोहित सिंह	धनियावाँ	रोहित सिंह
40	विजेन्द्र प्रसाद	धनियावाँ	विजेन्द्र प्रसाद
41			

Annexure –IV

Terms of Reference (ToR)

File No.SIA/1(a)/2431/2023

Goverment of India

State Level Environment Impact Assessment Authority

Bihar

***

To,

M/s BIMAL KUMAR
C/O Shyam Yadav, Kurji More, Sadaquat Ashram, Patna,
Patna-800010
Bihar

Tel.No.-; Email:vimalbhojpur40@gmail.com

Sub. Terms of Reference to the Proposed Sand Mining Project of Area 8.25 Ha at Nalanda Lokain – 05, Lokain Sand Ghat No -08 on Lokain River of District- Nalanda, State-Bihar., C/O Shyam Yadav, Kurji More, Sadaquat Ashram, Patna

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/430921/2023
2. Name of the Proposal:	Proposed Sand Mining Project of Area 8.25 Ha at Nalanda Lokain – 05, Lokain Sand Ghat No - 08 on Lokain River of District- Nalanda, 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:	01 Jun 2023

Date : 09-06-2023

Mr. Sudhir Kumar
(Member Secretary)

Office : **2nd Floor, Beltron B**
Phone No : Mobile : **9334575112**
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.

****

Annexure –V

(Satellite Imaginary Last 3 Years)


Nalanda Lokain – 05, Lokain Sand Ghat No -08
Imaginary Date:03/2020
Legend
Rajeev kumar
Google Earth
200 m
N


Nalanda Lokain – 05, Lokain Sand Ghat No -08
Imaginary Date:04/2019
Legend
Rajgir
Rajgir Rly Stn
Rajeev kumar
Google Earth
Image © 2019 Maxar Technologies
200 m
N


Nalanda Lokain – 05, Lokain Sand Ghat No -08
Imaginary Date:05/2022
Legend
House of Jagriti yadav
Rajeev kumar
Google Earth
200 m
N


Nalanda Lokain – 05, Lokain Sand Ghat No -08
Imaginary Date:07/2023
Legend
House of Jagriti yadav
Rajeev kumar
Google Earth
200 m
N


Nalanda Lokain – 05, Lokain Sand Ghat No -08
Imaginary Date:09/2021
Legend
Rajeev kumar
Google Earth
200 m
N


Nalanda Lokain – 05, Lokain Sand Ghat No -08
Imaginary Date: 12/2020
Legend
Rajeev kumar
200 m
N
Google Earth
Image © 2023 Maxar Technologies


Nalanda Lokain – 05, Lokain Sand Ghat No -08
Imaginary Date: 12/2021
Legend
its apron boy
House of Jagriti yadav
Rajeev kumar
Google Earth
200 m
N


Nalanda Lokain – 05, Lokain Sand Ghat No -08
Imaginary Date:12/2022
Legend
its apron boy
House of nagriti yadav
Rajeev kumar
Google Earth
image © 2023 Airbus
image © 2023 Maxar Technologies
N
200 m

Annexure –VI

(Letter from DMO, Nalanda)

जिला खनन कार्यालय, नालन्दा, (बिहारशरीफ)

पत्रांक 1233 /एम0, नालन्दा दिनांक 22/03/2023

प्रेषित,

श्री विमल कुमार,
पिता– श्याम सुन्दर यादव,
मोहल्ला– कुर्जी, पो0– कुर्जी मोड़,
थाना– दीघा, जिला– पटना पिन– 800010
ई–मेल– vimal9334575@gmail.com
मो0– 9334575112

विषय– नालन्दा जिलान्तर्गत बालूघाट सं0– 08 (लोकाईन 5), मौजा– कोरथू एवं पिरोधा, अंचल– एकंगरसराय, जिला– नालन्दा रकवा– 8.25 हेक्टेयर के क्षेत्र में पूर्व से खनन/प्रेषण से संबंधित प्रतिवेदन उपलब्ध कराने के संबंध में।

उपर्युक्त विषयक आपके द्वारा वांछित प्रतिवेदन एवं राज्य पर्यावरण समाघात निर्धारण प्राधिकार (SEIAA Bihar) द्वारा निर्गत TOR के Additional Specific Condition no. 2 के क्रम में सूचित किया जाता है कि नालन्दा जिलान्तर्गत सम्पूर्ण बालूघाट पंचांग वर्ष 2020 से संचालित नहीं है, इसलिए विषयांकित बालूघाट/बालूखण्ड में दिनांक– 01.01.2020 से वर्तमान तक किसी प्रकार का खनन/प्रेषण नहीं हुआ है।

23/03/23

खनिज विकास पदाधिकारी,
नालन्दा।

Annexure –VII

(Monitoring reports)

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED 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/1289/05/2023

DATE OF REPORT :10-06-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Date of Sampling : 10-05-2023

Analysis Start Date : 13-05-2023

Analysis End Date : 16-05-2023

Sample ID No : ETS/SL-1289

Sampling Done By : ETS STAFF

Sampling& Testing Method : ETS/LAB/SOIL-01

Sampling Location : NEAR PROJECT SITE LOKAIN 05

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	%	21.2	IS:2720 (Pt-4)
4.	Clay	%	13.1	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	8.03	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100	29.1	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	336.0	IS:14767
8.	Water Holding Capacity(WHC)	%	48.7	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	184.7	APHA-3055B
10.	Calcium (Ca)	mg/kg	1166.6	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	446.8	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.40	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	189.8	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	65.9	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	354.1	APHA-3055B
16.	Organic Matter	%	0.97	IS : 2720 (P-22)
17.	Organic Carbon	%	1.80	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.62	IS:3025(P-24)
19.	Porosity	%	15.63	IS 13030

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

Page 1 of 1

For Enviro-Tech Services

-Pushkar Mittal
AUTHORIZED SIGNATORY
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

Note:-
1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated in this report are for 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.

ENVIRO-TECH SERVICES

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ISO 45001

ETS-LAB

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

TEST REPORT

TEST REPORT NO : ETS/6011/05/2023

DATE OF REPORT : 10-06-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Sampling	:	20-05-2023
Analysis Start Date	:	23-05-2023
Analysis End Date	:	25-05-2023
Sample ID No	:	ETS/SL-6011
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	PROJECT SITE LOKAIN 05
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	%	71.3	IS:2720 (Pt-4)
3.	Silt	%	16.6	IS:2720 (Pt-4)
4.	Clay	%	12.0	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	8.15	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100	36.3	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	385.1	IS:14767
8.	Water Holding Capacity(WHC)	%	43.7	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	143.6	APHA-3055B
10.	Calcium (Ca)	mg/kg	978.2	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	427.2	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.76	IS 2386 (Part-4)
13.	Total Nitrogen (PO4)	mg/kg	246.2	APHA,Pt 4500:(N)
14.	Phosphorus (P)	mg/kg	63.2	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	321.5	APHA-3055B
16.	Organic Matter	%	1.26	IS : 2720 (P-22)
17.	Organic Carbon	%	2.57	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.08	IS:3025(P-24)
19.	Porosity	%	26.0	IS 13030

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

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

Note:
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ISO 45001

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

TEST REPORT

TEST REPORT NO : ETS/1290/05/2023 DATE OF REPORT :10-06-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Sampling	:	10-05-2023
Analysis Start Date	:	13-05-2023
Analysis End Date	:	16-05-2023
Sample ID No	:	ETS/SL-1290
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	PEWTA
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	%	58.0	IS:2720 (Pt-4)
3.	Silt	%	25.6	IS:2720 (Pt-4)
4.	Clay	%	16.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.80	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100	33.9	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	369.4	IS:14767
8.	Water Holding Capacity(WHC)	%	41.3	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	164.4	APHA-3055B
10.	Calcium (Ca)	mg/kg	1111.2	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	584.7	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.90	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	109.4	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	48.6	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	246.3	APHA-3055B
16.	Organic Matter	%	1.19	IS : 2720 (P-22)
17.	Organic Carbon	%	1.77	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.10	IS:3025(P-24)
19.	Porosity	%	21.86	IS 13030

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
Lab In Charge

AUTHORIZED SIGNATORY

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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/1291/05/2023 DATE OF REPORT :10-06-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Sampling	:	15-05-2023
Analysis Start Date	:	18-05-2023
Analysis End Date	:	21-05-2023
Sample ID No	:	ETS/SL-1291
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	CHUNUKPUR
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	%	68.3	IS:2720 (Pt-4)
3.	Silt	%	20.2	IS:2720 (Pt-4)
4.	Clay	%	11.5	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.02	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100	21.5	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	317.4	IS:14767
8.	Water Holding Capacity(WHC)	%	36.2	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	137.1	APHA-3055B
10.	Calcium (Ca)	mg/kg	1038.7	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	521.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	2.10	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	145.1	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	42.3	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	252.8	APHA-3055B
16.	Organic Matter	%	1.10	IS : 2720 (P-22)
17.	Organic Carbon	%	1.73	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.04	IS:3025(P-24)
19.	Porosity	%	14.18	IS 13030

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO : ETS/6007/05/2023

DATE OF REPORT : 10-06-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Sampling	:	18-05-2023
Analysis Start Date	:	20-05-2023
Analysis End Date	:	23-05-2023
Sample ID No	:	ETS/SL-6007
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	BARKI AKAUNA
Sampling Quantity	:	2.0 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
20.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
21.	Sand	%	67.2	IS:2720 (Pt-4)
22.	Silt	%	20.6	IS:2720 (Pt-4)
23.	Clay	%	11.2	IS:2720 (Pt-4)
24.	pH (1:2 Suspension)	..	7.11	IS:2720 (Pt-26)
25.	Cation Exchange Capacity(CEC)	meq/100	34.4	IS:2720 (Pt-24)
26.	Electrical Conductivity (1:2)	µmho/cm	329.2	IS:14767
27.	Water Holding Capacity(WHC)	%	40.6	IS 2720 (Part-2)
28.	Sodium (Na)	mg/kg	141.0	APHA-3055B
29.	Calcium (Ca)	mg/kg	1074.6	IS 2720 (Part-23)
30.	Magnesium (Mg)	mg/kg	547.8	ETS/STP/SOIL-08
31.	Bulk Density	g/cm^3	1.28	IS 2386 (Part-4)
32.	Total Nitrogen (PO4)	mg/kg	164.9	APHA,Pt 4500:(N)
33.	Phosphorus (P)	mg/kg	43.4	ETS/STP/SOIL-19
34.	Potassium (K)	mg/kg	258.0	APHA-3055B
35.	Organic Matter	%	1.02	IS : 2720 (P-22)
36.	Organic Carbon	%	2.01	BS 1377 -3)
37.	Sulphate as (SO_4)	mg/kg	2.23	IS:3025(P-24)
38.	Porosity	%	25.7	IS 13030

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

ENVIRO-TECH SERVICE ETS-LAB

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO : ETS/6008/05/2023 DATE OF REPORT : 10-06-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Sampling	:	18-05-2023
Analysis Start Date	:	20-05-2023
Analysis End Date	:	23-05-2023
Sample ID No	:	ETS/SL-6008
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	KESHOPUR
Sampling Quantity	:	2.0 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
39.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
40.	Sand	%	58.3	IS:2720 (Pt-4)
41.	Silt	%	23.5	IS:2720 (Pt-4)
42.	Clay	%	18.2	IS:2720 (Pt-4)
43.	pH (1:2 Suspension)	--	7.32	IS:2720 (Pt-26)
44.	Cation Exchange Capacity(CEC)	meq/100	35.4	IS:2720 (Pt-24)
45.	Electrical Conductivity (1:2)	µmho/cm	339.1	IS:14767
46.	Water Holding Capacity(WHC)	%	41.8	IS 2720 (Part-2)
47.	Sodium (Na)	mg/kg	145.3	APHA-3055B
48.	Calcium (Ca)	mg/kg	1106.8	IS 2720 (Part-23)
49.	Magnesium (Mg)	mg/kg	564.2	ETS/STP/SOIL-08
50.	Bulk Density	g/cm^3	1.32	IS 2386 (Part-4)
51.	Total Nitrogen (PO4)	mg/kg	169.9	APHA,Pt 4500:(N)
52.	Phosphorus (P)	mg/kg	44.7	ETS/STP/SOIL-19
53.	Potassium (K)	mg/kg	265.7	APHA-3055B
54.	Organic Matter	%	1.05	IS : 2720 (P-22)
55.	Organic Carbon	%	2.07	BS 1377 -3)
56.	Sulphate as (SO_4)	mg/kg	2.30	IS:3025(P-24)
57.	Porosity	%	26.4	IS 13030

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

ENVIRO-TECH SERVICES

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO : ETS/1266/05/2023

DATE OF REPORT : 10.06.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Date of Sampling : 15.05.2023
Analysis Start Date : 17.05.2023
Analysis End Date : 20.05.2023
Sample ID No : 1266
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : NEAR PROJECT SITE LOKAIN 05
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	306.9	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	137.5	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	143.9	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	83.5	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	68.0	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	34.9	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.78	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.36	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	<0.01	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	0.07	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	22.4	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	0.08	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	542.8	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
33.	Temperature	°C	24.9	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	55.3	Not Specified	Not Specified	APHA-3500 (Na)
35.	FecalColiform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

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

For Enviro-Tech Services

Prashkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

CHECKED BY
SHRADDHA GUPTA

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TEST REPORT

TEST REPORT NO : ETS/1267/05/2023

DATE OF REPORT : 10.06.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Date of Sampling : 18.05.2023
Analysis Start Date : 20.05.2023
Analysis End Date : 23.05.2023
Sample ID No : 1267
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : PEWTA
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	545.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	254.8	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	288.1	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	135.7	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	92.9	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	37.56	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	0.92	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.31	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	<0.01	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	0.12	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	29.01	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	0.684	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	753.84	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
33.	Temperature	°C	26.3	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	49.8	Not Specified	Not Specified	APHA-3500 (Na)
35.	FecalColiform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
AUTHORIZED SIGNATORY
Lab In-charge

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TEST REPORT

TEST REPORT NO : ETS/1268/05/2023

DATE OF REPORT : 10.06.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Date of Sampling : 20.05.2023
Analysis Start Date : 22.05.2023
Analysis End Date : 25.05.2023
Sample ID No : 1268
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : CHUNUKPUR
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	---	7.58	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	575.9	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	249.5	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	336.6	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	114.6	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	48.51	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	40.74	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.34	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.31	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.44	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	<0.01	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	0.03	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	36.86	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	0.47	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	826.5	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
33.	Temperature	°C	25.8	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	65.1	Not Specified	Not Specified	APHA-3500 (Na)
35.	FecalColiform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Prishkar Mittal
AUTHORIZED SIGNATORY
Lab In-charge

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TEST REPORT

TEST REPORT NO : ETS/5585/05/2023

DATE OF REPORT : 10.06.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Date of Sampling : 22.05.2023
Analysis Start Date : 24.05.2023
Analysis End Date : 26.05.2023
Sample ID No : 5585
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : BARKI AKAUNA
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	---	7.04	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	457.1	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	206.7	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	233.9	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	125.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	76.4	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	37.76	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.44	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.33	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.11	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	<0.01	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	0.14	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	39.9	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	0.67	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	653.3	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
33.	Temperature	°C	18.72	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	45.5	Not Specified	Not Specified	APHA-3500 (Na)
35.	FecalColiform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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2. **The results indicated only refer to the tested samples and listed applicable parameters.**
3. **No objection will be entertained if received after 7 days of issue of test report.**
4. **Our liability is limited to invoice value only.** Format no ETS /LAB/TR-09 Issue No 04 dt 01/06/2019 Rev No 03 dt 01/06/2019
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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ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

(A GOVERNMENT APPROVED 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/5586/05/2023

DATE OF REPORT : 10.06.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Date of Sampling : 24.05.2023
Analysis Start Date : 26.05.2023
Analysis End Date : 30.05.2023
Sample ID No : 5586
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : KESHOPUR
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	354.5	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	130.2	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	223.6	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	114.5	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	42.7	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	38.47	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.37	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	0.86	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	<0.01	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	0.11	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	40.8	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	0.52	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	514.0	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
33.	Temperature	°C	17.40	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	50.1	Not Specified	Not Specified	APHA-3500 (Na)
35.	FecalColiform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

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

CHECKED BY
SHRADDHA GUPTA

For Enviro Tech Services
Pushkar Mittal
Lab In-charge
AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO : ET/2426-5/05/2023

DATE OF REPORT : 10.06.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Sampling	:	15.05.2023
Analysis Start Date	:	17.05.2023
Analysis End Date	:	20.05.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	POND, CHARUI
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	---	8.04	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.81	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	346.8	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	160.3	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	185.3	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	94.2	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	54.2	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	41.21	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	1.92	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.13	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.24	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	18.67	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.80	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	544.88	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	19.20	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^0C for 3 day)	mg/L	3.29	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	6.32	APHA-5210
34.	E. Coli	MPN/100ml	250	IS:1622-1981
35.	Total Coliform	MPN/100ml	870	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	430	APHA-9221

For Enviro-Tech Services

Pushkar Mittal
Incharge

AUTHORIZED SIGNATORY

CHECKED BY
SHRADDHA GUPTA

Note:-

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

TEST REPORT

TEST REPORT NO : ETS/2426-6/05/2023 DATE OF REPORT : 10.06.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Date of Sampling : 14.05.2023
Analysis Start Date : 16.05.2023
Analysis End Date : 19.05.2023
Sampling Done By : ETS STAFF
Sampling Description : SURFACE WATER
Sampling Location : POND, PETWA
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	---	7.60	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.32	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	371.2	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	136.9	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	177.2	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	116.4	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	59.2	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	35.90	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	1.26	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.31	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.17	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	23.05	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	578.8	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	26.2	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at $27^{O}C$ for 3 day)	mg/L	4.72	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.89	APHA-5210
34.	E. Coli	MPN/100ml	220	IS:1622-1981
35.	Total Coliform	MPN/100ml	790	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	380	APHA-9221

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

For Enviro-Tech Services

Rushkar Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

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Format no ETS-LAB/FR-09 dated No 01 of 01/06/2016 Revised on 01 of 01/06/2019

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TEST REPORT

TEST REPORT NO :ETS/2426-7/05/2023

DATE OF REPORT : 20.06.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Sampling	:	15.05.2023
Analysis Start Date	:	17.05.2023
Analysis End Date	:	20.05.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	FALGU,DOWNSTREAM
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	---	7.82	IS:3025 (Pt-11)
4.	Turbidity	NTU	12.6	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	443.3	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	182.0	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	214.0	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	132.4	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	85.9	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	57.6	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	3.74	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.47	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	21.9	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.55	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	662.5	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	25.0	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^0C for 3 day)	mg/L	3.40	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.08	APHA-5210
34.	E. Coli	MPN/100ml	310	IS:1622-1981
35.	Total Coliform	MPN/100ml	1010	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	510	APHA-9221

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

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/2426-8/05/2023 DATE OF REPORT : 10.06.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Sampling	:	20.05.2023
Analysis Start Date	:	22.05.2023
Analysis End Date	:	25.05.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	FALGU, UPSTREAM
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	---	7.33	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.0	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	455.9	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	190.8	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	221.7	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	113.1	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	80.4	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	30.7	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	3.26	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.37	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.14	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	15.01	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	689.4	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	24.6	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^0C for 3 day)	mg/L	4.52	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.63	APHA-5210
34.	E. Coli	MPN/100ml	370	IS:1622-1981
35.	Total Coliform	MPN/100ml	1180	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	620	APHA-9221

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

For Enviro-Tech Services

Pushpal Mittal
Lab In Charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

Note:
1. The ETS-LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and tested as per 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.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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/1113/03/2023

DATE OF REPORT :10-06-2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Analysis Start Date : 07-03-2023
Analysis End Date : 30-05-2023
Sampling Done By : ETS STAFF
Sampling Location : NEAR PROJECT SITE LOKAIN 05
Sampling Method : AS PER CPCB GUIDELINES
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(Pt-23)	Grav.Method	IS:5182(Pt-2)	IS:5182(Pt-6)	IS:5182(Pt-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.03.2023	ETS/SL-002	54.9	32.0	11.8	32.7	0.39
2	06.03.2023	ETS/SL-009	57.5	33.5	15.1	28.1	0.55
3	10.03.2023	ETS/SL-016	56.0	36.4	12.6	23.8	0.61
4	13.03.2023	ETS/SL-023	56.5	31.8	11.3	24.9	0.39
5	17.03.2023	ETS/SL-030	54.1	32.0	16.0	28.2	0.35
6	20.03.2023	ETS/SL-037	53.5	32.2	14.0	27.5	0.70
7	24.03.2023	ETS/SL-044	53.9	32.7	11.6	25.0	0.61
8	27.03.2023	ETS/SL-051	55.3	32.3	16.3	28.0	0.45
9	03.04.2023	ETS/SL-058	55.5	32.6	14.7	27.8	0.66
10	06.04.2023	ETS/SL-065	55.8	31.8	13.7	27.4	0.68
11	10.04.2023	ETS/SL-072	67.7	31.9	15.0	25.6	0.54
12	13.04.2023	ETS/SL-079	69.4	38.9	12.3	26.1	0.53
13	17.04.2023	ETS/SL-086	64.5	42.0	13.3	25.3	0.49
14	20.04.2023	ETS/SL-093	61.2	38.4	14.3	27.6	0.35
15	24.04.2023	ETS/SL-100	59.1	34.8	15.5	25.0	0.57
16	27.04.2023	ETS/SL-107	67.8	36.4	16.6	25.4	0.64
17	03.05.2023	ETS/SL-114	70.2	42.5	11.5	24.5	0.61
18	06.05.2023	ETS/SL-121	57.6	41.2	12.5	27.1	0.57
19	10.05.2023	ETS/SL-128	63.4	36.7	15.5	25.8	0.61
20	13.05.2023	ETS/SL-135	62.2	38.4	12.0	27.2	0.32
21	17.05.2023	ETS/SL-142	55.3	35.6	11.2	29.3	0.61
22	20.05.2023	ETS/SL-149	69.7	33.0	13.7	30.4	0.66
23	24.05.2023	ETS/SL-156	64.4	39.5	12.8	24.6	0.66
24	27.05.2023	ETS/SL-163	55.5	38.0	15.8	24.8	0.36
Minimum			53.5	31.8	11.2	23.8	0.32
Maximum			70.2	42.5	16.6	32.7	0.70
Average			60.0	35.6	13.7	26.8	0.54
98 Percentile			70.0	42.2	16.5	31.6	0.69

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

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

Note:-

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TEST REPORT

TEST REPORT NO :ETS/1114/03/2023

DATE OF REPORT :10-06-2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Analysis Start Date : 10-03-2023
Analysis End Date : 05-06-2023
Sampling Done By : ETS STAFF
Sampling Location : PEWTA
Sampling Method : AS PER CPCB GUIDELINES
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(Pt-23)	Grav.Method	IS:5182(Pt-2)	IS:5182(Pt-6)	IS:5182(Pt-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	05.03.2023	ETS/SL-003	59.8	35.5	13.4	26.9	0.25
2	09.03.2023	ETS/SL-010	60.0	40.4	17.2	28.7	0.38
3	12.03.2023	ETS/SL-017	60.9	39.7	14.4	24.4	0.44
4	16.03.2023	ETS/SL-024	61.5	42.5	12.8	25.4	0.32
5	19.03.2023	ETS/SL-031	58.9	37.0	18.1	28.8	0.32
6	23.03.2023	ETS/SL-038	58.2	32.4	15.7	28.0	0.51
7	26.03.2023	ETS/SL-045	58.7	46.6	13.2	25.6	0.42
8	29.03.2023	ETS/SL-052	60.2	44.6	18.5	28.6	0.62
9	03.04.2023	ETS/SL-059	60.4	47.2	16.7	28.4	0.49
10	06.04.2023	ETS/SL-066	60.8	34.9	15.6	28.0	0.69
11	09.04.2023	ETS/SL-073	66.7	40.6	17.2	26.1	0.29
12	13.04.2023	ETS/SL-080	71.1	36.5	14.0	26.6	0.36
13	16.04.2023	ETS/SL-087	68.2	39.1	15.0	25.9	0.58
14	20.04.2023	ETS/SL-094	71.9	37.1	16.1	28.2	0.29
15	23.04.2023	ETS/SL-101	61.7	32.8	17.5	25.5	0.47
16	27.04.2023	ETS/SL-108	62.1	34.3	18.8	25.9	0.66
17	04.05.2023	ETS/SL-115	74.7	31.1	13.1	25.0	0.36
18	08.05.2023	ETS/SL-122	72.6	31.4	14.2	27.7	0.40
19	11.05.2023	ETS/SL-129	76.5	31.5	14.4	26.4	0.44
20	15.05.2023	ETS/SL-136	69.0	32.1	11.3	27.8	0.62
21	18.05.2023	ETS/SL-143	64.4	31.7	12.6	29.9	0.44
22	22.05.2023	ETS/SL-150	62.3	31.9	15.6	31.1	0.23
23	25.05.2023	ETS/SL-157	67.3	31.2	14.6	25.1	0.47
24	31.05.2023	ETS/SL-164	66.9	31.2	17.9	25.3	0.41
Minimum			58.2	31.1	11.3	24.4	0.23
Maximum			76.5	47.2	18.8	31.1	0.69
Average			64.8	36.4	15.3	27.1	0.44
98 Percentile			75.7	46.9	18.7	30.5	0.67

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

For Enviro-Tech Services

Pushkar Mittal

Lab Manager

AUTHORIZED SIGNATORY

CHECKED BY

SHRADDHA GUPTA

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TEST REPORT

TEST REPORT NO :ETS/1115/03/2023 DATE OF REPORT :10-06-2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Analysis Start Date : 05-03-2023
Analysis End Date : 30-05-2023
Sampling Done By : ETS STAFF
Sampling Location : CHUNUKPUR
Sampling Method : AS PER CPCB GUIDELINES
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(Pt-23)	Grav.Method	IS:5182(Pt-2)	IS:5182(Pt-6)	IS:5182(Pt-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.03.2023	ETS/SL-004	62.7	30.0	11.3	29.1	0.58
2	04.03.2023	ETS/SL-011	57.3	31.4	14.6	31.0	0.76
3	08.03.2023	ETS/SL-018	59.9	34.1	12.2	26.2	0.49
4	11.03.2023	ETS/SL-025	58.3	29.8	11.0	27.3	0.44
5	15.03.2023	ETS/SL-032	58.9	30.0	15.4	31.1	0.32
6	18.03.2023	ETS/SL-039	56.4	30.2	13.5	30.2	0.51
7	22.03.2023	ETS/SL-046	55.7	30.7	11.3	27.4	0.63
8	25.03.2023	ETS/SL-053	56.2	30.3	15.7	30.9	0.54
9	01.04.2023	ETS/SL-060	57.6	30.6	14.2	30.7	0.76
10	04.04.2023	ETS/SL-067	57.8	29.8	13.4	30.1	0.57
11	08.04.2023	ETS/SL-074	58.2	29.9	14.6	28.1	0.47
12	11.04.2023	ETS/SL-081	70.6	36.5	11.9	28.7	0.53
13	15.04.2023	ETS/SL-088	72.4	39.3	12.9	27.8	0.51
14	18.04.2023	ETS/SL-095	67.2	36.0	13.9	30.4	0.76
15	22.04.2023	ETS/SL-102	63.8	32.6	14.9	27.4	0.70
16	25.04.2023	ETS/SL-109	61.6	34.2	16.1	27.9	0.57
17	01.05.2023	ETS/SL-116	70.7	39.8	11.2	27.0	0.71
18	04.05.2023	ETS/SL-123	73.2	39.3	12.0	29.8	0.70
19	08.05.2023	ETS/SL-130	60.1	34.5	12.2	28.4	0.78
20	11.05.2023	ETS/SL-137	66.1	36.1	17.6	29.9	0.25
21	15.05.2023	ETS/SL-144	64.9	33.4	10.8	32.2	0.51
22	18.05.2023	ETS/SL-151	57.6	30.9	13.4	33.5	0.70
23	22.05.2023	ETS/SL-158	72.7	37.1	12.4	27.1	0.76
24	25.05.2023	ETS/SL-165	67.1	35.7	15.2	35.8	0.49
Minimum			55.7	29.8	10.8	26.2	0.25
Maximum			73.2	39.8	17.6	35.8	0.78
Average			62.8	33.4	13.4	29.5	0.58
98 Percentile			72.9	39.6	16.9	34.7	0.77

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

For Enviro-Tech Services

Pushkar Mittal
Lab In-Charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

Note:-

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TEST REPORT

TEST REPORT NO :ETS/1116/03/2023

DATE OF REPORT :10-06-2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Analysis Start Date : 07-03-2023
Analysis End Date : 30-05-2023
Sampling Done By : ETS STAFF
Sampling Location : MANANPUR
Sampling Method : AS PER CPCB GUIDELINES
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(Pt-23)	Grav.Method	IS:5182(Pt-2)	IS:5182(Pt-6)	IS:5182(Pt-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.03.2023	ETS/SL-005	52.0	27.0	13.1	33.4	0.82
2	06.03.2023	ETS/SL-012	51.5	28.3	16.7	33.8	0.69
3	10.03.2023	ETS/SL-019	54.0	30.7	14.0	28.7	0.66
4	13.03.2023	ETS/SL-026	52.5	26.8	12.6	29.8	0.69
5	17.03.2023	ETS/SL-033	53.0	27.0	17.6	34.0	0.84
6	20.03.2023	ETS/SL-040	50.8	27.2	15.6	33.0	0.69
7	24.03.2023	ETS/SL-047	50.2	27.6	13.1	29.9	0.33
8	27.03.2023	ETS/SL-054	50.6	27.3	18.1	33.7	0.43
9	03.04.2023	ETS/SL-061	51.8	27.5	16.3	33.5	0.59
10	06.04.2023	ETS/SL-068	52.1	26.9	15.4	32.9	0.69
11	10.04.2023	ETS/SL-075	52.4	26.9	16.7	30.7	0.82
12	13.04.2023	ETS/SL-082	63.5	32.9	13.6	31.3	0.58
13	17.04.2023	ETS/SL-089	65.2	35.4	14.8	30.4	0.69
14	20.04.2023	ETS/SL-096	60.5	32.4	16.0	33.1	0.74
15	24.04.2023	ETS/SL-103	57.4	29.4	17.2	29.9	0.43
16	27.04.2023	ETS/SL-110	55.5	30.8	18.5	30.5	0.59
17	03.05.2023	ETS/SL-117	63.7	35.8	12.8	29.5	0.33
18	06.05.2023	ETS/SL-124	65.9	35.3	13.8	32.5	0.76
19	10.05.2023	ETS/SL-131	54.1	31.0	14.0	31.0	0.49
20	13.05.2023	ETS/SL-138	59.5	32.4	17.5	32.6	0.40
21	17.05.2023	ETS/SL-145	58.4	30.1	12.5	35.2	0.69
22	20.05.2023	ETS/SL-152	51.9	27.9	15.4	36.5	0.59
23	24.05.2023	ETS/SL-159	65.4	33.4	14.2	29.6	0.82
24	27.05.2023	ETS/SL-166	60.4	32.1	17.5	34.1	0.47
Minimum			50.2	26.8	12.5	28.7	0.33
Maximum			65.9	35.8	18.5	36.5	0.84
Average			56.3	30.1	15.3	32.1	0.62
98 Percentile			65.6	35.6	18.3	35.9	0.83

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

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CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

ENVIRO-TECH SERVICES

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ISO 45001

TEST REPORT

TEST REPORT NO :ETS/1112/03/2023 DATE OF REPORT : 10-06-2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Analysis Start Date : 05-03-2023
Analysis End Date : 30-05-2023
Sampling Done By : ETS STAFF
Sampling Location : CHARUI
Sampling Method : AS PER CPCB GUIDELINES
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(Pt-23)	Grav.Method	IS:5182(Pt-2)	IS:5182(Pt-6)	IS:5182(Pt-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.03.2023	ETS/SL-001	74.3	36.8	11.5	27.5	0.35
2	04.03.2023	ETS/SL-008	71.2	41.9	14.6	29.3	0.45
3	08.03.2023	ETS/SL-015	70.3	41.1	12.2	24.9	0.34
4	11.03.2023	ETS/SL-022	70.9	44.0	10.9	25.9	0.40
5	15.03.2023	ETS/SL-029	72.8	38.4	15.4	29.4	0.25
6	18.03.2023	ETS/SL-036	75.8	33.5	13.4	28.6	0.32
7	22.03.2023	ETS/SL-043	80.3	48.2	11.3	26.1	0.37
8	25.03.2023	ETS/SL-050	77.1	46.2	15.7	29.2	0.52
9	01.04.2023	ETS/SL-057	73.5	48.8	14.2	29.1	0.70
10	04.04.2023	ETS/SL-064	80.6	36.2	13.3	28.6	0.63
11	08.04.2023	ETS/SL-071	85.9	42.0	14.4	26.7	0.43
12	11.04.2023	ETS/SL-078	82.4	37.8	11.9	27.2	0.67
13	15.04.2023	ETS/SL-085	86.8	40.5	12.8	26.4	0.63
14	18.04.2023	ETS/SL-092	74.5	38.4	13.7	28.8	0.36
15	22.04.2023	ETS/SL-099	75.0	34.0	15.0	26.0	0.52
16	25.04.2023	ETS/SL-106	81.1	35.6	16.0	26.5	0.72
17	01.05.2023	ETS/SL-113	87.7	32.2	11.1	25.6	0.40
18	04.05.2023	ETS/SL-120	85.5	32.5	12.1	28.3	0.63
19	08.05.2023	ETS/SL-127	83.4	32.7	12.2	26.9	0.60
20	11.05.2023	ETS/SL-134	77.8	33.2	9.6	28.4	0.48
21	15.05.2023	ETS/SL-141	80.9	32.8	10.9	30.4	0.60
22	18.05.2023	ETS/SL-148	72.3	33.1	13.3	31.7	0.68
23	22.05.2023	ETS/SL-155	70.9	32.3	12.3	25.7	0.44
24	25.05.2023	ETS/SL-162	73.6	35.9	15.2	25.8	0.68
Minimum			**70.3**	**32.2**	**9.6**	**24.9**	**0.25**
Maximum			**87.7**	**48.8**	**16.0**	**31.7**	**0.72**
Average			**77.7**	**37.8**	**13.0**	**27.6**	**0.51**
98 Percentile			**87.3**	**48.5**	**15.9**	**31.1**	**0.71**

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Note:-
1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results relate 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

TEST REPORT

TEST REPORT NO : ETS/5473/03/2023

DATE OF REPORT :10-06-2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Analysis Start Date : 05-03-2023
Analysis End Date : 30-05-2023
Sampling Done By : ETS STAFF
Sampling Location : TELHARA
Sampling Method : AS PER CPCB GUIDELINES
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(Pt-23)	Grav.Method	IS:5182(Pt-2)	IS:5182(Pt-6)	IS:5182(Pt-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	01.03.2023	ETS/SL-007	58.3	28.9	9.0	21.6	0.27
2	04.03.2023	ETS/SL-014	55.9	32.9	11.5	23.0	0.35
3	08.03.2023	ETS/SL-021	55.2	32.3	9.6	19.5	0.27
4	11.03.2023	ETS/SL-028	55.6	34.5	8.6	20.3	0.31
5	15.03.2023	ETS/SL-035	57.1	30.1	12.1	23.1	0.20
6	18.03.2023	ETS/SL-042	59.5	26.3	10.5	22.4	0.25
7	22.03.2023	ETS/SL-049	63.0	37.8	8.9	20.5	0.29
8	25.03.2023	ETS/SL-056	60.5	36.3	12.3	22.9	0.41
9	01.04.2023	ETS/SL-063	57.7	38.3	11.1	22.8	0.55
10	04.04.2023	ETS/SL-070	63.2	28.4	10.4	22.4	0.49
11	08.04.2023	ETS/SL-077	67.4	33.0	11.3	21.0	0.34
12	11.04.2023	ETS/SL-084	64.7	29.7	9.3	21.3	0.53
13	15.04.2023	ETS/SL-091	68.1	31.8	10.0	20.7	0.49
14	18.04.2023	ETS/SL-098	58.5	30.1	10.8	22.6	0.28
15	22.04.2023	ETS/SL-105	58.9	26.7	11.8	20.4	0.41
16	25.04.2023	ETS/SL-112	63.6	27.9	12.6	20.8	0.57
17	01.05.2023	ETS/SL-119	68.8	25.3	8.7	20.1	0.31
18	04.05.2023	ETS/SL-126	67.1	25.5	9.5	22.2	0.49
19	08.05.2023	ETS/SL-133	65.4	25.7	9.6	21.1	0.47
20	11.05.2023	ETS/SL-140	61.1	26.1	7.5	22.3	0.38
21	15.05.2023	ETS/SL-147	63.5	25.7	8.6	23.9	0.47
22	18.05.2023	ETS/SL-154	56.7	26.0	10.4	24.9	0.53
23	22.05.2023	ETS/SL-161	55.6	25.3	9.7	20.2	0.35
24	25.05.2023	ETS/SL-168	57.8	28.2	11.9	20.2	0.53
		Minimum	**55.2**	**25.3**	**7.5**	**19.5**	**0.20**
		Maximum	**68.8**	**38.3**	**12.6**	**24.9**	**0.57**
		Average	**61.0**	**29.9**	**10.2**	**21.7**	**0.40**
		98 Percentile	**68.5**	**38.1**	**12.5**	**24.4**	**0.56**

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

ENVIRO-TECH SERVICE ETS-LAB

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

Note:

1. Test reports without **ETS LAB HOLOGRAM** are not issued by our laboratory.
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CHECKED BY
SHRADDHA GUPTA

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TEST REPORT

TEST REPORT NO : ETS5474/03/2023 DATE OF REPORT :10-06-2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Analysis Start Date : 07-03-2023
Analysis End Date : 30-05-2023
Sampling Done By : ETS STAFF
Sampling Location : BARKI AKAUNA
Sampling Method : AS PER CPCB GUIDELINES
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(Pt-23)	Grav.Method	IS:5182(Pt-2)	IS:5182(Pt-6)	IS:5182(Pt-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	03.03.2023	ETS/SL-008	56.0	27.7	8.7	20.7	0.26
2	06.03.2023	ETS/SL-015	53.6	31.6	11.0	22.1	0.34
3	10.03.2023	ETS/SL-022	53.0	31.0	9.2	18.8	0.26
4	13.03.2023	ETS/SL-030	53.4	33.1	8.2	19.5	0.30
5	17.03.2023	ETS/SL-036	54.8	28.9	11.6	22.1	0.19
6	20.03.2023	ETS/SL-043	57.1	25.2	10.1	21.5	0.24
7	24.03.2023	ETS/SL-050	60.5	36.3	8.5	19.7	0.28
8	27.03.2023	ETS/SL-057	58.1	34.8	11.8	22.0	0.39
9	03.04.2023	ETS/SL-064	55.4	36.8	10.7	21.9	0.53
10	06.04.2023	ETS/SL-071	60.7	27.3	10.0	21.5	0.47
11	10.04.2023	ETS/SL-078	64.7	31.6	10.8	20.1	0.32
12	13.04.2023	ETS/SL-085	62.1	28.5	9.0	20.5	0.50
13	17.04.2023	ETS/SL-092	65.4	30.5	9.6	19.9	0.47
14	20.04.2023	ETS/SL-099	56.1	28.9	10.3	21.7	0.27
15	24.04.2023	ETS/SL-106	56.5	25.6	11.3	19.6	0.39
16	27.04.2023	ETS/SL-113	61.1	26.8	12.1	20.0	0.54
17	03.05.2023	ETS/SL-120	66.1	24.3	8.4	19.3	0.30
18	06.05.2023	ETS/SL-127	64.4	24.5	9.1	21.3	0.47
19	10.05.2023	ETS/SL-134	62.8	24.6	9.2	20.3	0.45
20	13.05.2023	ETS/SL-141	58.6	25.0	7.2	21.4	0.36
21	17.05.2023	ETS/SL-148	60.9	24.7	8.2	22.9	0.45
22	20.05.2023	ETS/SL-155	54.5	24.9	10.0	23.9	0.51
23	24.05.2023	ETS/SL-162	53.4	24.3	9.3	19.4	0.33
24	27.05.2023	ETS/SL-167	55.4	27.0	11.5	19.4	0.51
Minimum			**53.0**	**24.3**	**7.2**	**18.8**	**0.19**
Maximum			**66.1**	**36.8**	**12.1**	**23.9**	**0.54**
Average			**58.6**	**28.7**	**9.8**	**20.8**	**0.38**
98 Percentile			**65.8**	**36.5**	**12.0**	**23.4**	**0.53**

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

ENVIRO-TECH SERVICE

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal

AUTHORIZED SIGNATORY

Note:-
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TEST REPORT

TEST REPORT NO : ETS/5475/03/2023 DATE OF REPORT : 10-06-2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
NALANDA DISTRICT CLUSTER PROJECT

Analysis Start Date : 10-03-2023
Analysis End Date : 05-06-2023
Sampling Done By : ETS STAFF
Sampling Location : KESHOPUR
Sampling Method : AS PER CPCB GUIDELINES
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(Pt-23)	Grav.Method	IS:5182(Pt-2)	IS:5182(Pt-6)	IS:5182(Pt-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	05.03.2023	ETS/SL-009	54.3	26.9	8.4	20.1	0.26
2	09.03.2023	ETS/SL-016	52.0	30.6	10.7	21.4	0.33
3	12.03.2023	ETS/SL-023	51.4	30.0	8.9	18.2	0.25
4	16.03.2023	ETS/SL-031	51.8	32.2	8.0	18.9	0.29
5	19.03.2023	ETS/SL-037	53.2	28.1	11.3	21.5	0.18
6	23.03.2023	ETS/SL-044	55.4	24.5	9.8	20.9	0.23
7	26.03.2023	ETS/SL-051	58.7	35.2	8.3	19.1	0.27
8	29.03.2023	ETS/SL-058	56.3	33.8	11.5	21.3	0.38
9	03.04.2023	ETS/SL-065	53.7	35.7	10.4	21.3	0.51
10	06.04.2023	ETS/SL-072	58.9	26.5	9.7	20.9	0.46
11	09.04.2023	ETS/SL-079	62.8	30.7	10.5	19.5	0.31
12	13.04.2023	ETS/SL-086	60.2	27.6	8.7	19.9	0.49
13	16.04.2023	ETS/SL-093	63.4	29.6	9.4	19.3	0.46
14	20.04.2023	ETS/SL-100	54.4	28.1	10.0	21.0	0.26
15	23.04.2023	ETS/SL-107	54.8	24.8	11.0	19.0	0.38
16	27.04.2023	ETS/SL-114	59.3	26.0	11.7	19.4	0.53
17	04.05.2023	ETS/SL-121	64.1	23.5	8.1	18.7	0.29
18	08.05.2023	ETS/SL-128	62.5	23.7	8.8	20.7	0.46
19	11.05.2023	ETS/SL-135	60.9	23.9	8.9	19.7	0.44
20	15.05.2023	ETS/SL-142	56.9	24.3	7.0	20.8	0.35
21	18.05.2023	ETS/SL-149	59.1	24.0	8.0	22.2	0.44
22	22.05.2023	ETS/SL-156	52.8	24.2	9.7	23.2	0.50
23	25.05.2023	ETS/SL-163	51.8	23.6	9.0	18.8	0.32
24	31.05.2023	ETS/SL-168	53.8	26.2	11.1	18.9	0.50
		Minimum	**51.4**	**23.5**	**7.0**	**18.2**	**0.18**
		Maximum	**64.1**	**35.7**	**11.7**	**23.2**	**0.53**
		Average	**56.8**	**27.8**	**9.5**	**20.2**	**0.37**
		98 Percentile	**63.8**	**35.4**	**11.6**	**22.7**	**0.52**

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

ENVIRO-TECH SERVICE

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 if received after 7 days of issue of test report.
4. Our liability limited to invoice value only.
5. The sample(s) will be disposed after 15 days & Biological / Perishable sample shall be destroyed immediately after testing unless requested otherwise.
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.

For Enviro-Tech Services

Pushkar Mittal
Lab In-Charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

ENVIRO-TECH SERVICES

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TEST REPORT

TEST REPORT NO : ETS/1276/05/2023

DATE OF REPORT : 10-06-2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Monitoring	:	10-05-2023
Monitoring Start Date	:	10-05-2023
Monitoring End Date	:	11-05-2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	CHARUI
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1.	Noise Level Day Time	Leq :dB (A)	48.5	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	30.3	45	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
Lab In Charge

AUTHORIZED SIGNATORY

Note:-

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ENVIRO-TECH SERVICES

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TEST REPORT

TEST REPORT NO : ETS/1277/05/2023 DATE OF REPORT : 10-06-2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Monitoring	:	10-05-2023
Monitoring Start Date	:	10-05-2023
Monitoring End Date	:	11-05-2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	NEAR PROJECT SITE LOKAIN 05
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1.	Noise Level Day Time	Leq :dB (A)	48.5	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	36.3	45	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services
Pushkar Mittal
Lab Manager
AUTHORIZED SIGNATORY

Note:-

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TEST REPORT

TEST REPORT NO : ETS/1278/05/2023

DATE OF REPORT : 10-06-2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Monitoring	:	12-05-2023
Monitoring Start Date	:	12-05-2023
Monitoring End Date	:	13-05-2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	PEWTA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1.	Noise Level Day Time	Leq :dB (A)	52.1	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	36.8	45	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Bhaskar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

Note:-

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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/1279/05/2023

DATE OF REPORT : 10-06-2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Monitoring	:	12-05-2023
Monitoring Start Date	:	12-05-2023
Monitoring End Date	:	13-05-2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	CHUNUKPUR
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1.	Noise Level Day Time	Leq :dB (A)	47.2	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	36.6	45	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Pushkar Mittal
Lab In-charge

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TEST REPORT

TEST REPORT NO : ETS/1280/05/2023

DATE OF REPORT : 10-06-2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Monitoring	:	14-05-2023
Monitoring Start Date	:	14-05-2023
Monitoring End Date	:	15-05-2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	MANANPUR
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1.	Noise Level Day Time	Leq :dB (A)	52.3	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	36.7	45	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Technical Head
Lab In-charge

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TEST REPORT

TEST REPORT NO : ETS/5595/05/2023 DATE OF REPORT : 10-06-2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Monitoring	:	16-05-2023
Monitoring Start Date	:	16-05-2023
Monitoring End Date	:	17-05-2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	TELHARA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1.	Noise Level Day Time	Leq :dB (A)	48.4	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	32.1	45	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Pushkar Mittal
Lab In-charge

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TEST REPORT

TEST REPORT NO : ETS/5596/05/2023

DATE OF REPORT : 10-06-2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Monitoring	:	16-05-2023
Monitoring Start Date	:	16-05-2023
Monitoring End Date	:	17-05-2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	BARKI AKAUNA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Specification/Limit (As per CPCB)	Test Method
1.	Noise Level Day Time	Leq :dB (A)	46.3	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	33.2	45	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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

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Pushkar Mittal
Lab Incharge

CHECKED BY
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TEST REPORT

TEST REPORT NO : ETS/5597/05/2023

DATE OF REPORT : 10-06-2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED NALANDA DISTRICT CLUSTER PROJECT
Date of Monitoring	:	18-05-2023
Monitoring Start Date	:	18-05-2023
Monitoring End Date	:	19-05-2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	KESHOPUR
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Specification/Limit (As per CPCB)	Test Method
3.	Noise Level Day Time	Leq :dB (A)	52.2	55	IS: 9989
4.	Noise Level Night Time	Leq :dB (A)	40.6	45	IS: 9989

Remark: Day time is reckoned in between 06.00 A.M. and 10.00 P.M.
Night time is reckoned in between 10.00 P.M. and 06.00 A.M.

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

CHECKED BY
SHRADDHA GUPTA

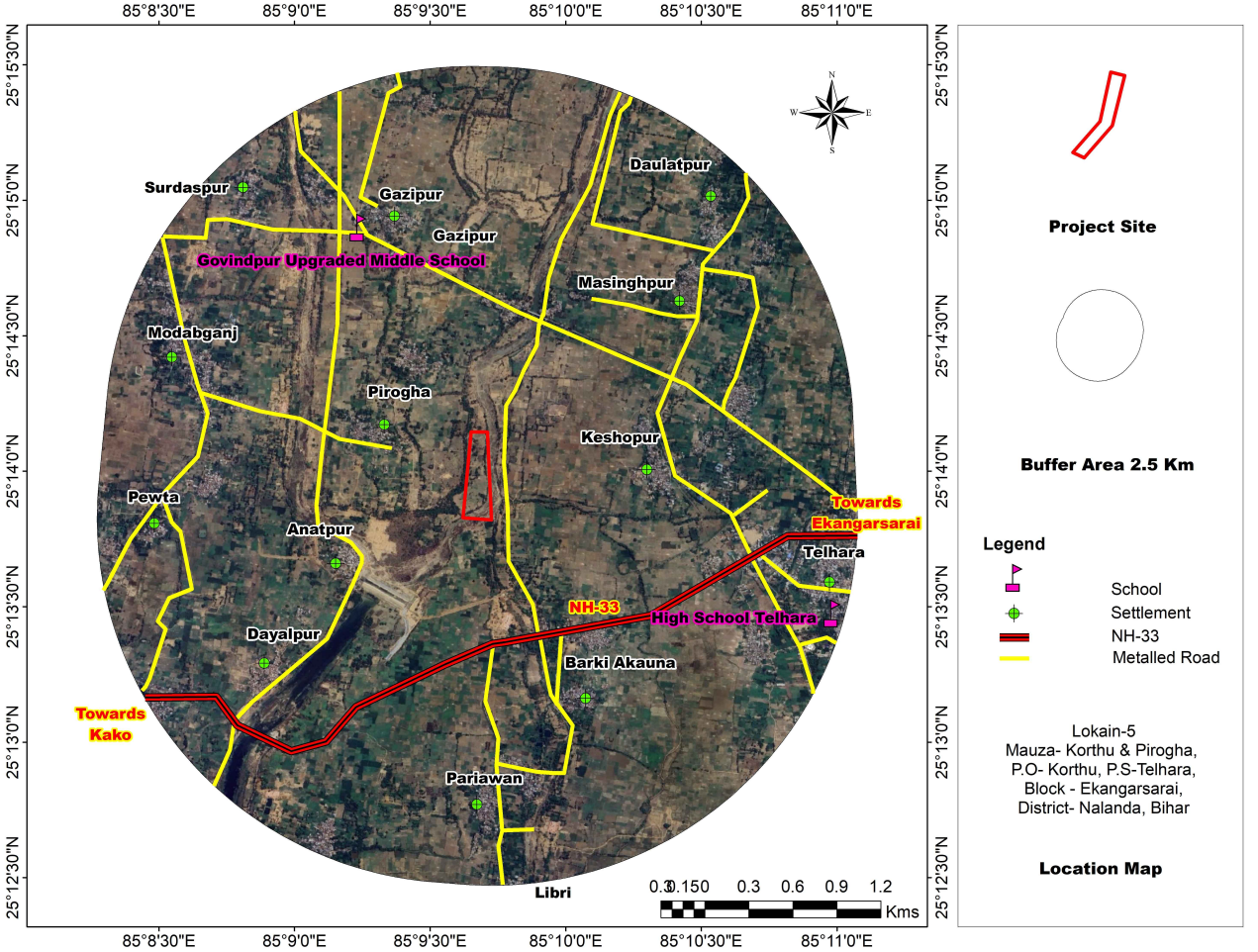
For Enviro-Tech Services
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Annexure –VIII

(2.5 Km Map showing Public Utility)



Project Site

Buffer Area 2.5 Km

Legend

- School
- Settlement
- NH-33
- Metalled Road

Lokain-5
Mauza- Korthu & Pirogha,
P.O- Korthu, P.S-Telhara,
Block - Ekangarsarai,
District- Nalanda, Bihar

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	Nalanda Lokain – 05, Lokain Sand Ghat No -08
I	Name of the proponent	**Bimal Kumar**
ii	Mailing Address	**Bimal Kumar** S/o- Shyam Sundar Yadav Mohalla- Kurji, P.O – Kurji Mor, P.S- Digha, Dist- Patna-800010
	E-mail	vimal9334575@gmail.com
	Telephone	9334575112
	Fax No.	--
b	Objective of the project	Sand Mining
c	**Location of mine**	
	Village	Korthu & Pirogha
	Tehsil	Ekangarsarai
	District	Nalanda
	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	25°14'8.52"N " to 25°13'49.22"N	
	Longitude	85° 9'37.28"E to 85° 9'43.54"E	
	Survey of India Topo sheet number	G45N3, G45N7, G45N4, G45N8.	
	Elevation above Mean Sea Level	83.3 m to 83.1 m	
	Total mining lease area (in ha.)	8.25 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	8.25 Ha.	
f	Others (Private Land)	--	
g	Others (Own Land)	--	
	Total	8.25 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		-	8.25 Ha.	-	--	8.25 Ha.	-	8.25 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		-	**8.25 Ha.**	-	-	**8.25 Ha.**	--	**8.25 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 Lokain 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 migratory birds	Nil	-	-	
5.	Corridor for	Nil	-	-	

	animals of schedule I & II of the Wildlife (Protection) Act, 1972			
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	Ekangarsarai Railway Station	-	Approx. 7.20 Km towards ESE
12.	National / State Highways	NH-33	-	Approx. 1.06 Km towards South
[* 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	102960 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)	102960 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-1985/Kh, dated 23-12-2022 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)	3 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	7078
b	After the proposed activity		7186
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	102960 TPA	100	1.0
b	Rail	-	-	-
c	Conveyors	-	-	-
d	Rope way	-	-	-
e	Water ways	-	-	-

f	Pipeline	-	-	-
g	Others (Specify)	-	-	-
Total		**102960 TPA**	**100**	**1.0**

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)

(1st Dec 2022 to 4th March 2023)

S.No.	Parameter	Unit	Min	Max	Mean
1	Temperature	^{0}C	22.5	42.2	30.2
2	Wind Speed	m/s	0.5	8.8	2.5
3	Relative Humidity	%	32	68	38
4	Solar Radiation	w/m^2	5000	5500	5200
5	Wind Direction	North East			
6	Rainfall	0			
7	No of rainy days	0			
8	Annual Rainfall	976.34			

* 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 of March 2023 to 31st of May 2023)**

(ii) No. of samples collected at each monitoring station**: 24**

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
AQ1	24		31.8	42.5	42.2	53.5	70.2	70	11.2	16.6	16.5	23.8	32.7	31.6	-	-	-
AQ2	24		32.2	48.8	48.5	70.3	87.7	87.3	9.6	16	15.9	24.9	31.7	31.1	-	-	-
AQ3	24		31.1	47.2	46.9	58.2	76.5	75.7	11.3	18.8	18.7	24.4	31.1	30.5	-	-	-
AQ4	24		29.8	39.8	39.6	55.7	73.2	72.9	10.8	17.6	16.9	26.2	35.8	34.7	-	-	-

AQ5	24		26.8	35.8	35.6	50.2	65.9	65.6	12.5	18.5	18.3	28.7	36.5	35.9	-	-	-
AQ6	24		25.3	38.3	38.1	55.2	68.8	68.5	7.5	12.6	12.5	19.5	24.9	24.4	-	-	-
AQ7	24		24.3	36.8	36.5	53	66.1	65.8	7.2	12.1	12	18.8	23.9	23.4			
AQ8	24		23.5	35.7	35.4	51.4	64.1	63.8	7	11.7	11.6	18.2	23.2	22.7			

*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 ^{O}C	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	Incremental Value	Ambient Air Quality	Resultant Air Quality
1.	SPM	4.5	87.7	92.2

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	0.09	0.09
5. Green Belt & Dust Suppression	5.246	5.246
6. Beneficiation	-	-
7. Washeries	-	-
8. Fire Service	-	-
9. Others (Mining and Allied Activities))	-	-
B. Township		
1. Green Belt	-	-
2. Domestic	-	-
C. Other (specify)	-	-
Total	**5.34**	**5.34**

26. Source of water supply*

S. No.	**Source**	m^3/day
1	River (name)	-
2	Ground water	0.09
3	Mine water (sump / pit)	--
4	Other surface water bodies (water will be tapped from plant supply)	5.246

[*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	-	-	-	0.09		0.38
2	Irrigation	-	-		-		-
3	Industry	-	-		-		-
4	Mining	-	-	-	-		-
5	Others (Dust suppression+ Green belt)	-	-	5.246		5.246	-
Total		--	--	5.246	0.09	5.246	0.09

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-**	1.35 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 n 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				-	8.25 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. 53.55 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	2.5
2	Pollution Monitoring i) Air Pollution ii) Water Pollution iii) Soil Pollution iv) Noise Pollution	--	2.0
3	Plantation and salary for one gardener (part time basis).	1.64	1.0
4	Haul road Maintenance Cost	1.5	1.44
5	Occupational Health and Safety of the workers	1.0	3.0
6	CER Budget (PH Commitment) Distributions of saplings to people in the village Naraich for plantation in their own Raiyati land	1.20	--
TOTAL		**5.34**	**9.94**

47. Amount earmarked for socio-economic welfare measures for the nearby villages other than R&R plans.

S. No	Area of Concern	Action Plan	Budget Allocated (in Lakh)	Time Period
1.	Green belt Development	Distributions of saplings to people in the village Naraich for plantation in their own Raiyati land	1.20	1 to 5 Year
	Total		**1.20**	

48. Public Hearing

a	Date of Advertisement	29.07.2023	
b	Newspapers in which the advertisement appeared	Hindustan, Prabhat Khabar	
c	Date of public hearing (DD/MM/YYYY)	31st of August, 2023	
d	Public Hearing Panel chaired by & members present	➢ "Additional District Magistrate" Nalanda - Shree Manjit Kumar (Nominated by District Collector- Nalanda) ➢ Shree Ashish Kumar Gupta, Regional Officer, BSPCB,	
e	No. of people attended the public hearing meeting and number of people from the lease area.	Around 36.	
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

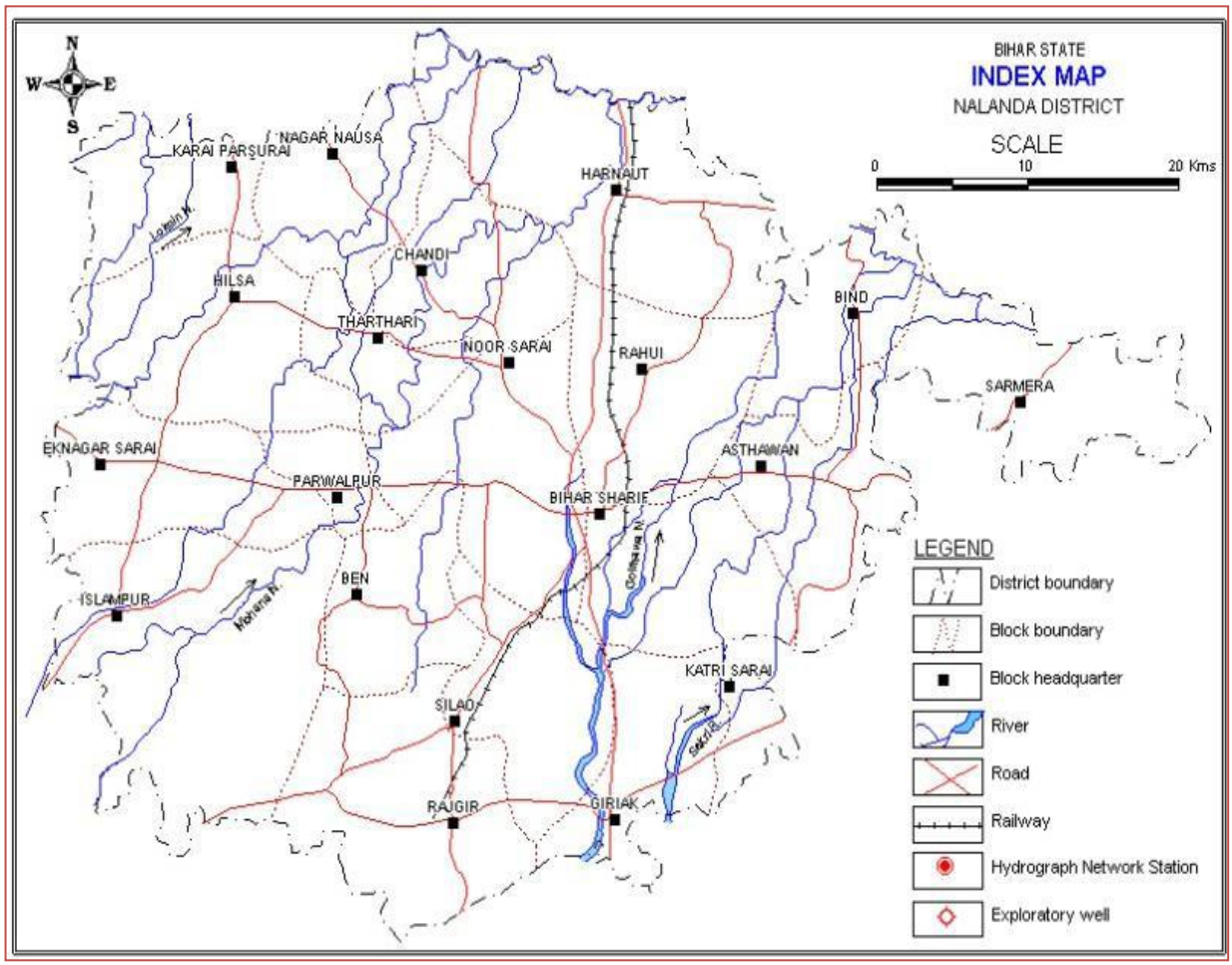
(DSR letter, Nalanda)

बिहार सरकार

District Survey Report
Sand Mineral

DISTRICT- NALANDA (BIHAR)

As per Notification No.- S.O.141 (E), 15th January, 2016 of MOEF &CC, Govt. of India,Notification No.- S.O.3611 (E), 25th July, 2018, of MOEF &CC, Govt. of India andEnforcement & Monitoring Guidelines for Sand Mining, 2020



Prepared By

Sub Divisional Committee, Nalanda

जिला खनन कार्यालय, नालन्दा, (बिहारशरीफ)

पत्रांक 870 /एम0, नालन्दा दिनांक 20/05/2022

प्रेषक,

खनिज विकास पदाधिकारी,
नालन्दा।

सेवा में,

सदस्य सचिव,
State Environment Impact Assessment Authority,
SEIAA, बिहार, पटना।

विषय :– SEIAA की बैठक दिनांक 18.05.2022 को दिये निदेश के आलोक में (DSR) में संशोधन कर Final DSR जमा करने के सम्बंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि दिनांक 18.05.2022 को State Environment Impact Assessment Authority, SEIAA की बैठक में जिला सर्वेक्षण प्रतिवेदन (DSR) में प्रस्तावित बालूघाटों में संशोधन कर एवं घाटों से संबंधित सभी दस्तावेज (DSR) में समायोजित कर Final DSR समर्पित करने के लिए निदेशित किया गया था। तद्आलोक में बालूघाटों को संशोधित कर एवं सभी दस्तावेज (DSR) में संलग्न कर समर्पित किया जा रहा है।

अनु0– यथोक्त।

विश्वासभाजन
20.5.22
खनिज विकास पदाधिकारी,
नालन्दा।

Scanned with CamScanner

Table 8: List of proposed Sand Ghats						
SL NO	**SAND BLOCK /GHAT**	**ADDRESS OF SAND GHAT**	**AREA OF SAND GHAT IN HA**	**GPS COORDINATES**		
				CORNER	**LATITUDE**	**LONGITIDE**
SAKRI RIVER						
Cluster - I						
1	Sakri 1	Vill – Satauwa, PO, PS & Anchal – Giryak, Nalanda	20.6	A	25° 1'57.43"N	85°34'0.58"E
				B	25° 1'55.74"N	85°34'7.99"E
				C	25° 2'4.08"N	85°34'10.70"E
				D	25° 2'13.50"N	85°34'8.58"E
				E	25° 2'15.02"N	85°34'5.51"E
				F	25° 2'16.53"N	25° 2'16.45"N
2	Sakri 2	Vill – Katona & Rajpur, PO, PS & Anchal – Giryak, Nalanda	22.3	A	25° 2'10.12"N	85°34'18.80"E
				B	25° 2'10.41"N	85°34'24.70"E
				C	25° 2'20.57"N	85°34'28.46"E
				D	25° 2'31.06"N	85°34'26.60"E
				E	25° 2'40.31"N	85°34'28.75"E
				F	25° 2'42.47"N	85°34'19.53"E
3	Sakri 3	Vill – Katona & Rajpur, PO, PS & Anchal – Giryak, Nalanda	30.0	A	25° 2'22.34"N	85°33'51.40"E
				B	25° 2'21.66"N	85°33'59.01"E
				C	25° 2'44.80"N	85°34'13.15"E
				D	25° 2'46.42"N	85°33'52.36"E
Area of Cluster -I			**72.9**			
4	Sakri 4	Vill – Patoria, PO – Patoria, PS & Anchal – Giryak, Nalanda	6.73	A	25° 4'14.55"N	85°34'43.70"E
				B	25° 4'12.38"N	85°34'45.86"E
				C	25° 4'27.58"N	85°35'2.42"E
				D	25° 4'30.49"N	85°34'59.91"E
5	Sakri 5	Vill – Tetrawa & Dhanuki, PS & Anchal – Biharsarif, Nalanda	7.0	A	25° 8'11.05"N	85°35'38.88"E
				B	25° 8'11.08"N	85°35'42.12"E
				C	25° 8'20.19"N	85°35'42.21"E
				D	25° 8'28.62"N	85°35'40.47"E
				E	25° 8'36.00"N	85°35'36.57"E
6	Sakri 6	Vill- Jagnathpur, PS & Anchal- Sare, Nalanda	5.82	A	25°11'24.35"N	85°38'36.57"E
				B	25°11'24.74"N	85°38'38.21"E
				C	25°11'56.61"N	85°38'40.81"E
				D	25°11'57.23"N	85°38'38.62"E
	Total Proposed Area on Sakri River		**92.45**			
PANCHANE RIVER						
Cluster- II						
7	Panchane 1	Vill – Barchibigha, PO – Chandiman, PS – Giryak, Nalanda	7.25	A	25° 2'41.40"N	85°30'37.02"E
				B	25° 2'43.51"N	85°30'38.70"E
				C	25° 3'0.55"N	85°30'23.96"E
				D	25° 2'59.11"N	85°30'20.18"E
8	Panchane 2	Vill & PO – Chandiman, PS – Giryak, Nalanda	21.0	A	25° 3'18.36"N	85°30'21.61"E
				B	25° 3'15.86"N	85°30'26.88"E
				C	25° 3'41.45"N	85°30'51.03"E
				D	25° 3'45.10"N	85°30'43.36"E
9	Panchane 3	Vill – Kosuchak PO – Kasuchak,	3.72	A	25° 3'53.49"N	85°31'1.45"E
				B	25° 3'51.79"N	85°31'5.35"E

		PS – Giryak, Nalanda		C	25° 4'0.66"N	85°31'5.96"E
				D	25° 4'3.03"N	85°31'1.03"E
Area of Cluster II			**31.97**			
10	Punchane 4	Vill & PO – Gorma, PS & Anchal – Rahui, Nalanda	3.0	A	25° 4'36.79"N	85°30'51.48"E
				B	25° 4'36.79"N	85°30'55.38"E
				C	25° 4'46.60"N	85°30'56.54"E
				D	25° 4'46.70"N	85°30'54.08"E
				E	25° 4'41.47"N	85°30'52.04"E
Total proposed area on Panchane River			**34.97**			
LOKAIN RIVER						
11	Lokain 1	Vill – Kobil, PO – Kobil, PS – Telhara, Anchal – Ekagarsarai, Nalanda.	9.7	A	25° 9'57.90"N	85°10'58.00"E
				B	25° 9'56.15"N	85°11'5.51"E
				C	25°10'10.24"N	85°11'7.41"E
				D	25°10'12.12"N	85°10'59.64"E
12	Lokain 2	Vill – Bishunpur, PO – Kanhaiyaganj, PS – Telhara, Anchal – Ekagarsarai, Nalanda.	10	A	25°10'29.77"N	85°10'17.09"E
				B	25°10'28.16"N	85°10'19.94"E
				C	25°10'58.80"N	85°10'24.08"E
				D	25°10'57.11"N	85°10'20.59"E
13	Lokain 3	Vill & PO – Daniawan, PS – Telhara, Anchal – Ekagarsarai, Nalanda	12	A	25°11'30.10"N	85°10'7.00"E
				B	25°11'30.12"N	85°10'10.36"E
				C	25°11'56.77"N	85°10'23.20"E
				D	25°11'58.45"N	85°10'19.49"E
14	Lokain 4	Vill – Balabigha, PS – Telhara, Anchal – Ekagarsarai, Nalanda.	7.4	A	25°12'18.47"N	85°10'43.38"E
				B	25°12'17.19"N	85°10'46.42"E
				C	25°12'39.21"N	85°10'57.13"E
				D	25°12'40.07"N	85°10'53.34"E
15	Lokain 5	Mauja: Korthu and Pirogha, PO - Korthu, PS & Anchal - Ekangarsarai, District - Nalanda	8.25	A	25°13'49.76"N	25°13'49.76"N
				B	25°13'49.22"N	85° 9'43.54"E
				C	25°14'8.51"N	85° 9'42.66"
				D	25°14'8.52"N	85° 9'39.05"E
Total proposed area on Lokain River			**47.35**			
Mohane River						
16	Mohane 1	Vill & PO – Manichak, PS & Anchal – Islampur, Nalanda	**3.5**	A	25° 7'40.47"N	85°10'28.10"E
				B	25° 7'39.56"N	85°10'29.09"E
				C	25° 8'2.05"N	85°10'51.81"E
				D	25° 8'2.95"N	85°10'50.93"E
17	Mohane 2	Vill & PO – Dhamauli, PS & Anchal – Islampur, Nalanda	**2.9**	A	25° 8'23.59"N	85°11'11.87"E
				B	25° 8'22.94"N	85°11'12.82"E
				C	25° 8'32.51"N	85°11'44.12"E
				D	25° 8'33.49"N	85°11'44.37"E
Total Proposed Area on Mohane River			**6.4**			
Soiwa River						
Cluster- III						
18	Soiwa 1	Vill – Naubatpur Lotan, PO –	2.0	A	25°10'0.03"N	85°34'38.68"E
				B	25° 9'59.58"N	85°34'39.97"E

		Chabilapur, Anchal – Biharsarif, Nalanda		C	25°10'10.01"N	85°34'53.73"E
				D	25°10'10.83"N	85°34'52.57"E
19	Soiwa 2	Vill – Naubatpur Lotan, PO – Chabilapur, Anchal – Biharsarif, Nalanda	2.52	A	25°10'20.60"N	85°34'56.89"E
				B	25°10'20.48"N	85°34'58.49"E
				C	25°10'36.22"N	85°35'3.43"E
				D	25°10'36.61"N	85°35'1.96"E
20	Soiwa 3	Vill – Naubatpur Lotan, PO – Chabilapur, Anchal – Biharsarif, Nalanda	1.28	A	25°10'46.22"N	85°35'2.37"E
				B	25°10'45.68"N	85°35'4.05"E
				C	25°10'57.68"N	85°35'4.44"E
				D	25°10'58.64"N	85°35'2.57"E
21	Soiwa 4	Vill & PO – Tiuri, PS – Manpur, Anchal – Biharsarif, Nalanda	1.0	A	25°11'1.40"N	85°35'2.34"E
				B	25°11'2.51"N	85°35'3.07"E
				C	25°11'7.55"N	85°34'58.86"E
				D	25°11'6.54"N	85°34'57.98"E
Cluster Area			**6.80**			
Jirain River						
Cluster- IV						
22	Jirain 1	Vill - Govindpur PS & Anchal – Bind, Nalanda	**2.76**	A	25°15'56.00"N	85°39'55.12"E
				B	25°15'55.70"N	85°39'53.93"E
				C	25°15'50.71"N	85°40'16.06"E
				D	25°15'51.46"N	85°40'15.17"E
23	Jirain 2	Vill - Govindpur PS & Anchal – Bind, Nalanda	**2.30**	A	25°15'46.84"N	85°40'29.57"E
				B	25°15'46.05"N	85°40'28.93"E
				C	25°15'49.44"N	85°40'48.94"E
				D	25°15'49.81"N	85°40'47.96"E
Cluster Area V			**5.06**			
24	Jirain 3	Vill – Sadarpur, PS & Anchal – Bind, Nalanda	**2.30**	A	25°17'22.20"N	85°40'56.99"E
				B	25°17'21.41"N	85°40'58.29"E
				C	25°17'31.14"N	85°41'5.38"E
				D	25°17'31.06"N	85°41'1.91"E
Total Area of Sand Blocks			**7.36**			
Total area of Proposed sand Ghats of Nalanda district – 195.33 Ha						

District wise detail of existing mining leases of sand and aggregates

District wise detail of existing mining leases of sand can be seen in **Table No.-1**