

Annexure –I
Letter of Intent (LOI)



समाहरणालय, नालन्दा
(खनन शाखा)

पत्रांक 1986 / खनन, नालन्दा

दिनांक: 23/12/ 2022

फोन नं० :- 06112-235203(O),
06112-235204, 235205(R)
ई-मेल :- dm-nalanda.bih@nic.in

प्रेषित,

श्री नागेन्द्र कुमार,
पिता- मुन्द्रिका राय,
न्यू गोसाई टोला, पो0+थाना- दानापुर,
जिला- पटना पिन- 801503
ई-मेल- nk0090347@gmail.com
मो0- 9905538919

विषय:- नालन्दा जिलान्तर्गत लोकाईन 1 बालूघाट (नदी का नाम- लोकाईन नदी, बालूघाट सं0- 04) 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 1 बालूघाट (नदी का नाम- लोकाईन नदी, बालूघाट सं0- 04), रकवा-9.7 हेक्टेयर की आगामी पाँच वर्षों के लिए बन्दोबस्ती हेतु दिनांक-25.11.2022 को सम्पन्न ई-नीलामी में आपके द्वारा रू0- 43,65,000/- (तींतालिस लाख पैंसठ हजार रू0 मात्र) की सुरक्षित जमा राशि के विरुद्ध उच्चतम डाक की राशि रू0- 52,38,000/- (बावन लाख अड़तीस 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- 13,09,500/- (तेरह लाख नौ हजार पाँच सौ 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 1 बालूघाट (नदी का नाम- लोकाईन नदी, बालूघाट सं0- 04) का सैद्धांतिक स्वीकृति के शर्त एवं बंधेज निम्नवत् है:-

1. बालूघाट संख्या-04 से संबंधित विवरणी निम्नवत् है:-

क्र0 संख्या	नदी का नाम	रकवा (हेक्टेयर में)	Geo Coordinates	
			Latitude	Longitude
1	लोकाईन (Lokain)	9.7	25° 9'57.90"N	85°10'58.00"E
			25° 9'56.15"N	85°11'5.51"E
			25°10'10.24"N	85°11'7.41"E
			25°10'12.12"N	85°10'59.64"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		121056 MT	

2. भुगतान की शर्त:-

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

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

किस्त	भुगतान की नियत तारीख
प्रथम किस्त (50%)	(क) पट्टा संविदा निष्पादन से पहले (पहले वर्ष के लिए) (ख) प्रथम वर्ष में पट्टा संविदा निष्पादन की तिथि से एक वर्ष पूरा होने के 60 दिन पूर्व और अनुक्रमिक वर्षों में इसी प्रक्रिया का पालन करते हुए जमा किया जायेगा।
द्वितीय किस्त (25%)	पट्टा संविदा निष्पादन की तिथि से 03 महीना पूरा होने से पहले।
तृतीय किस्त (25%)	पट्टा संविदा निष्पादन की तिथि से 06 महीना पूरा होने से पहले।

- GST का भुगतान:-** 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।
- आयकर/अन्य करों का भुगतान:-** आयकर अधिनियम के तहत आयकर एवं उस पर नियमानुसार देय अधिभार का भुगतान आयकर विभाग के प्रचलित दर के अनुसार एक मुश्त करना होगा। यह राशि बंदोबस्ती राशि के प्रत्येक किस्त के साथ देय होगी। जिला खनन कार्यालय, नालन्दा द्वारा यह राशि आयकर मद में जमा करा दी जायेगी।
- जिला खनिज फाउण्डेशन :-** Bihar District Mineral Foundation Rules, 2018 के अनुसार बंदोबस्ती राशि की दो (2) प्रतिशत राशि जिला खनिज फाउण्डेशन, नालन्दा के नाम भुगतान बैंक ड्राफ्ट के माध्यम से करना होगा।
- वैधानिक अनापत्ति :-** बालूघाट संचालन हेतु आवश्यक समस्त वैधानिक अनापत्ति/अनुमति यथा:- खनन योजना, पर्यावरणीय स्वीकृति, जल एवं वायु सहमति आदि निर्धारित अवधि के अन्दर आपके द्वारा प्राप्त करना होगा। वैधानिक अनापत्ति/अनुमति प्राप्त करने के पश्चात् ही बालू खनन प्रारंभ किये जाने हेतु कार्यादेश निर्गत किया जा सकेगा।
-वैधानिक अनापत्ति/अनुमति निम्नानुसार है:-

i. **खनन योजना:-** खनन योजना प्रभावी नियमों में उल्लेखित प्रावधानों के अनुसार सफल डाकवक्ता/बन्दोबस्तधारी द्वारा QCI/NABET से मान्यता प्राप्त Professional RQP से तैयार कर निदेशक, खान या विभाग द्वारा प्राधिकृत पदाधिकारी के समक्ष लेटर ऑफ इंटेन्ट 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 समाहर्ता/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 स्वीकृति:-** सफल डाकवक्ता/बन्दोबस्तधारी खनन योजना अनुमोदन के 15 दिनों के अन्दर पर्यावरण, वन एवं जलवायु परिवर्तन 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 सहमति:-** 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 मात्रा:-** खनन योजना, पर्यावरणीय स्वीकृति तथा जल (प्रदूषण निवारण एवं नियंत्रण) अधिनियम 1974 तथा वायु (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1981 के तहत प्राप्त सहमति में वर्णित बालू की मात्रा (इनमें से जो भी कम हो) तक ही खनन अनुमान्य होगा।

अनुमोदित खनन योजना, पर्यावरणीय स्वीकृति तथा जल एवं वायु सहमति में खनन योग्य मात्रा कम किये जाने पर भी वार्षिक देय बन्दोबस्ती राशि किसी स्थिति में कम नहीं की जाएगी।

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

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

- 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. सामान्य शर्तें:-

- (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 समाहर्ता 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 बन्दोबस्त 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 विरुद्ध नियमानुसार कार्रवाई किया जाएगा।
- (viii) सफल डाकवक्ता/बन्दोबस्तधारी समाहर्ता द्वारा बालूघाटों के संचालन के संबंध में लोकहित में जारी निबंधनों और शर्तों तथा निदेशों का पालन करेगा।
- (ix) यथोक्त शर्तों, बंधेजों एवं निबंधनों का पालन नहीं करने पर कारण पृच्छा निर्गत कर बन्दोबस्ती 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 बन्दोबस्ती 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 **Satellite 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 तहत स्वीकार्य साक्ष्य के रूप में माना जाएगा।



समाहर्ता
नालन्दा।



Annexure –II
(Mine Plan Approval Letter)

बिहार सरकार
खान एवं भूतत्व विभाग।

पत्रांक— 2637 / एम0, पटना,
प्रेषक,

दिनांक— 19/05/2023

सुरेश प्रसाद,
विशेष कार्य पदाधिकारी।

सेवा में,

Email

श्री नागेन्द्र कुमार,
पिता— मुन्द्रिका राय,
न्यू गोसाई टोला, पो0+थाना— दानापुर,
जिला— पटना पिन— 801503
ई-मेल— nk0090347@gmail.com

विषय:— नालन्दा जिलान्तर्गत लोकाईन 1 बालूघाट (नदी का नाम— लोकाईन नदी, बालूघाट सं0— 04) के खनन योजना के अनुमोदन के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि बिहार बालू खनन नीति-2019 यथा संशोधित एवं बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) के नियम-17 में वर्णित प्रावधानों के तहत **नालन्दा जिलान्तर्गत लोकाईन 1 बालूघाट (नदी का नाम— लोकाईन नदी, बालूघाट सं0— 04)** से संबंधित समर्पित खनन योजना के अनुमोदन पर प्राधिकृत समिति द्वारा समीक्षा की गई। समीक्षोपरांत निम्न शर्तों एवं बंधेजों के तहत 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 नहीं 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 शर्तों का पालन करते हुए ही बालू खनिज का खनन 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 शर्तों के अनुपालन में अनियमितता पायी जाती है, तो खनन पदाधिकारी को नियमानुसार आवश्यक कार्रवाई करने का अधिकार होगा।
6. संबंधित बालूघाट में खनिज की उपलब्धता, पहुँच पथ का निर्माण तथा अन्य खनन कार्यों से संबंधित सम्पूर्ण जबाबदेही बालूघाट संचालनकर्ता की होगी तथा इसमें किसी भी तरह का कोई दावा अथवा क्षतिपूर्ति मान्य नहीं होगा।
7. खनन योजना में वर्णित सभी तकनीकी तथा अन्य बिन्दुओं से संबंधित आँकड़ों की सत्यता / वैधता की जिम्मेवारी RQP/बंदोबस्तधारी की होगी तथा भविष्य में उपर्युक्त के संबंध में किसी प्रकार की भिन्नता/अनियमितता की पूरी जबाबदेही RQP/बंदोबस्तधारी की होगी।

8. खनन् कार्य के दौरान घाट संचालनकर्ता 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 होंगे 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 समाहर्ता, 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 शर्तों के साथ नालन्दा जिलान्तर्गत लोकाईन 1 बालूघाट (नदी का नाम— लोकाईन नदी, बालूघाट सं०— 04) से संबंधित समर्पित खनन योजना के अन्तर्गत ही बालू उत्खनन् कार्य सुनिश्चित कराया जायेगा।

विश्वासभाजन



(सुरेश प्रसाद)

विशेष कार्य पदाधिकारी



Annexure –III
(Public Hearing Proceedings)

लोक सुनवाई का वृत्त।

श्री नागेन्द्र कुमार, पिता-श्री मुन्द्रिका राय, न्यू गोसाई टोला, पो0+थाना-दानापुर, जिला-पटना द्वारा नालंदा लोकाईन-01 एवं 04 बालूघाट, मौजा+ग्राम- कोबिल, 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 तहत दिनांक 30.08.2023 को अपराह्न 03:00 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 सितम्बर 2006 एवं यथा संशोधित के तहत राज्य स्तरीय पर्यावरणीय समाघात निर्धारण प्राधिकरण, बिहार के द्वारा निर्गत TOR File.No.SIA/1(a)/2429/2023, dated 06.06.2023 के आलोक में श्री मंजीत कुमार, अपर समाहर्ता, नालंदा (जिला पदाधिकारी, नालंदा के प्रतिनिधि) की अध्यक्षता में बिहार राज्य प्रदूषण नियंत्रण पर्वद, द्वारा दिनांक 30.08.2023 को अपराह्न 03:00 बजे अंचल कार्यालय, एकंगरसराय, जिला-नालंदा में लोक-सुनवाई आयोजित की गयी। उपस्थिति पंजी संलग्न (अनुलग्नक-1)

इस लोक-सुनवाई की सूचना बिहार राज्य प्रदूषण नियंत्रण पर्वद 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 पर्वद, पटना द्वारा लोक-सुनवाई में उपस्थित जन-समुदाय एवं सभी संबंधित पदाधिकारियों का स्वागत करते हुए पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार द्वारा अधिसूचित पर्यावरण प्रभाव मूल्यांकन अधिसूचना सं0-एस.ओ.1533, दिनांक 14 सितम्बर 2006 एवं यथा संशोधित के तहत 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 श्री आमीर अख्तर 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 नहीं की जायेगी। वाहनों को तिरपाल से ढक कर ले जाया जायेगा। खनन कार्य सतह से 1 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 (97 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 प्रस्तुतिकरण के पश्चात् उपस्थित महानुभावों द्वारा दिए गए सुझाव/मंतव्य निम्नवतः हैं:-

क्रमांक	नाम एवं पता	प्रतिक्रिया/सुझाव
1.	श्री पप्पू कुमार, ग्राम-कोबिल, जिला-नालंदा।	इनके द्वारा बताया गया कि बालू खनन परियोजना के दौरान बालू से लदा वाहन फुल साउण्ड में गाना बजाते हुए जाते हैं। पर्यावरणीय सलाहकार द्वारा बताया गया कि इस परियोजना के तहत बालू लदा गाड़ी का Speed Limit होगा। बाजा बजाते हुए गाड़ी का परिवहन नहीं होगा। PUC निबंधित वाहन का ही उपयोग किया जायेगा।
2.	श्री कपूर प्रसाद, ग्राम-कन्हैयापुर, जिला-नालंदा।	इनके द्वारा पूछा गया कि बालू खनन परियोजना के दौरान बालू का उठाना लेवर से होगा या मशीन से किया जायेगा। पर्यावरणीय सलाहकार द्वारा बताया गया कि इस परियोजना के तहत बालू का कार्य लेवर एवं मशीन दोनों से 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।

जिला खनन पदाधिकारी, नालंदा द्वारा बताया गया कि वाहनों से बालू ले जाने के क्रम में नियमित रूप से परिवहन मार्ग पर जल छिड़काव करेंगे एवं बालू से लदे वाहनों को तिरपाल से ढक कर ही ले जायेंगे। बालू की खुदाई 1 मीटर ही करेंगे। उन्होंने 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। स्थानीय 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.पर्वद, पटना


अपर समाहर्ता,
नालंदा

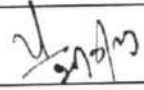
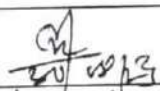
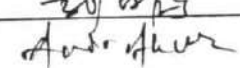
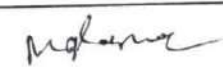
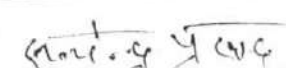
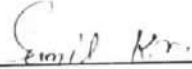
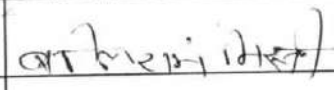
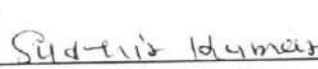
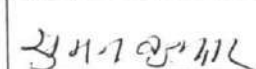
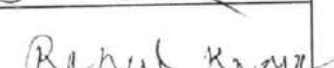
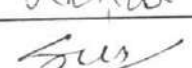
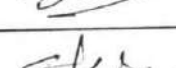
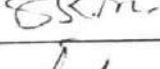
उपस्थिति सूची

श्री नागेन्द्र कुमार द्वारा नालंदा लोकाईन-01 एवं 04 बालू घाट, मौजा+ग्राम-कोबिल, ब्लॉक-एकंगरसराय, जिला-नालंदा में आयोजित लोक-सुनवाई के दौरान उपस्थित व्यक्तियों की सूची:

स्थान-अंचल कार्यालय, एकंगरसराय

दिनांक 30.08.2023

समय-03:00 P.M.

क्र.सं.	नाम	पता	हस्ताक्षर
1.	Manjit Kumar	ADM Nalanda	
2.			
3.	मुकेश कुमार	विभा. अग्रणी परी. 11/11/15	
4.	Amit Akhtar	Rico Eniro Pvt Ltd Enr. Consultant Patna	
5.	Mr Rashid Akbar	Ream Eniro Pvt	
6.	श्री. नरेश कुमार	कोबिल	
7.	सुनील कुमार	कोबिल	
8.	वजिर भागवत	शुभमपुर	
9.	Sudhir Kumar	पिश्नुपुर	
10.	सुमन कुमार	कोबिल	
11.	Rahul Kumar	Ruchanpara	
12.	Sanjay Kumar	कुबिल	
13.	Sanjay Singh	कोबिल	
14.	लाला सिंह	कोबिल	
15.			

16	Pravin Kumar	Kailashpur	Pravin Kumar
17	Sonny Kumar	Kabil	Sonny Kumar
18	नन्द प्रसाद	सौरभ चं। भा।	नन्द प्रसाद
19	उपेन्द्र प्रसाद	सौरभ भावाँ	उपेन्द्र प्रसाद
20	विजेंद्र प्रसाद	सौरभ भावाँ	विजेंद्र प्रसाद
21	अमरेंद्र कुमार	छहगुप	अमरेंद्र कुमार
22	आरविनेश कुमार	छहगुप	आरविनेश कुमार
23	Holun Kumar	Chhagup	Holun Kumar
24	Raj Balam	Chhagup	Raj Balam
25	अविनाश कुमार	कोविना	अविनाश कुमार
26	रमविजय कुमार	कोविना	रमविजय कुमार
27	अहम कुमार	कोविना	अहम कुमार
28			
29			
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Annexure –IV
Terms of Reference (ToR)

File No.SIA/1(a)/2429/2023

Government of India

State Level Environment Impact Assessment Authority

Bihar

To,

M/s NAGENDRA KUMAR

NEW GOSAI TOLA, SULTANPUR, WARD NO.-20, DR. D.RAM, DAV PUBLIC SCHOOL,
Patna-801503

Bihar

Tel.No.-; Email:nk0090347@gmail.com

Sub. Terms of Reference to the Proposed Sand Mining Project of Area 9.7 Ha at Nalanda Lokain – 01, Lokain Sand Ghat No -04 on Lokain River of District- Nalanda, State-Bihar., NEW GOSAI TOLA, SULTANPUR, WARD NO.-20, DR. D.RAM, DAV PUBLIC SCHOOL

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/430255/2023
- 2. Name of the Proposal:** Proposed Sand Mining Project of Area 9.7 Ha at Nalanda Lokain – 01, Lokain Sand Ghat No - 04 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 : 06-06-2023

Mr. Sudhir Kumar
(Member Secretary)

Office : **2nd Floor, Beltron B**
Phone No : Mobile : **9905538919**
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 area should be provided. Such an Imagery of

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

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 given with 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 area 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 area 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.

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

- 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 Wildlife and 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.

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

- 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

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

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.

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

- 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 – 01, Lokain Sand Ghat No -04

Imaginary Date: 04/2019

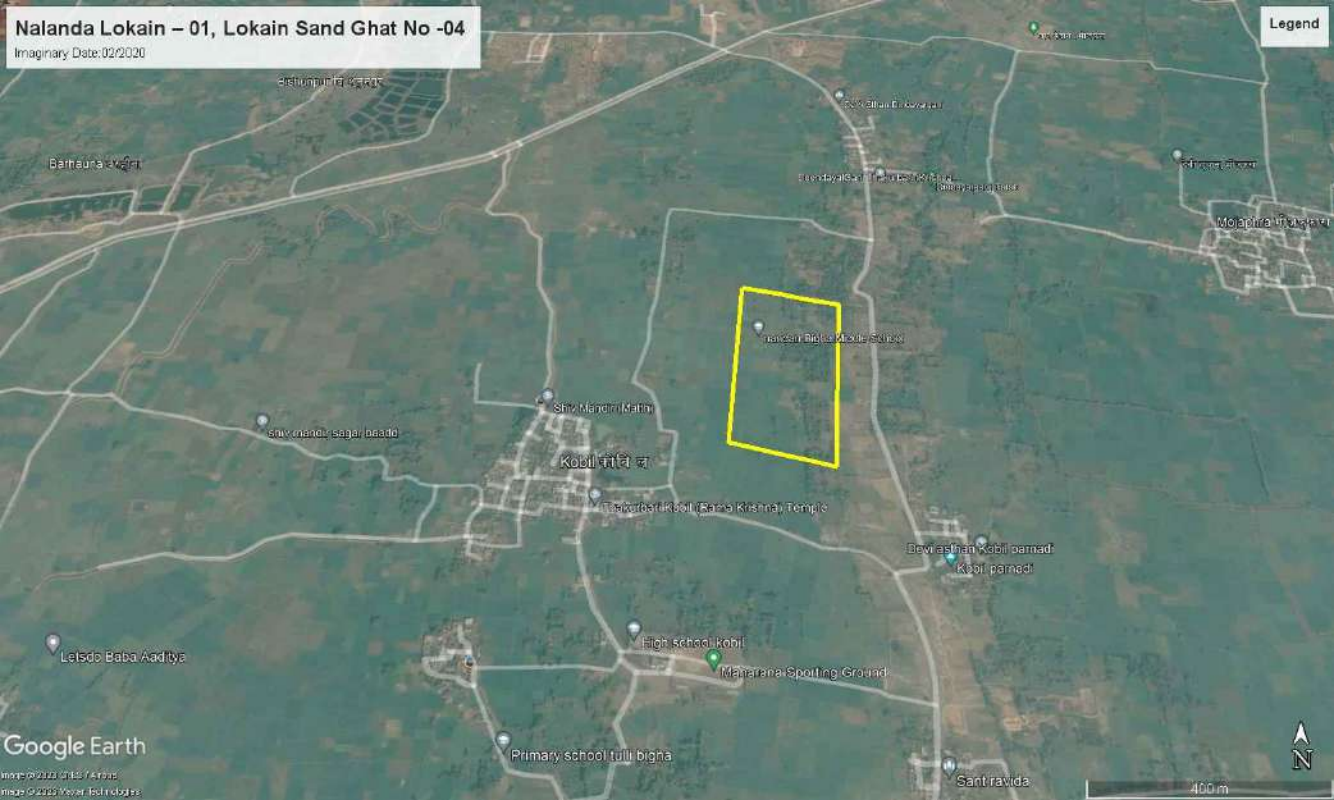
Legend



Nalanda Lokain – 01, Lokain Sand Ghat No -04

Imaginary Date: 02/2020

Legend



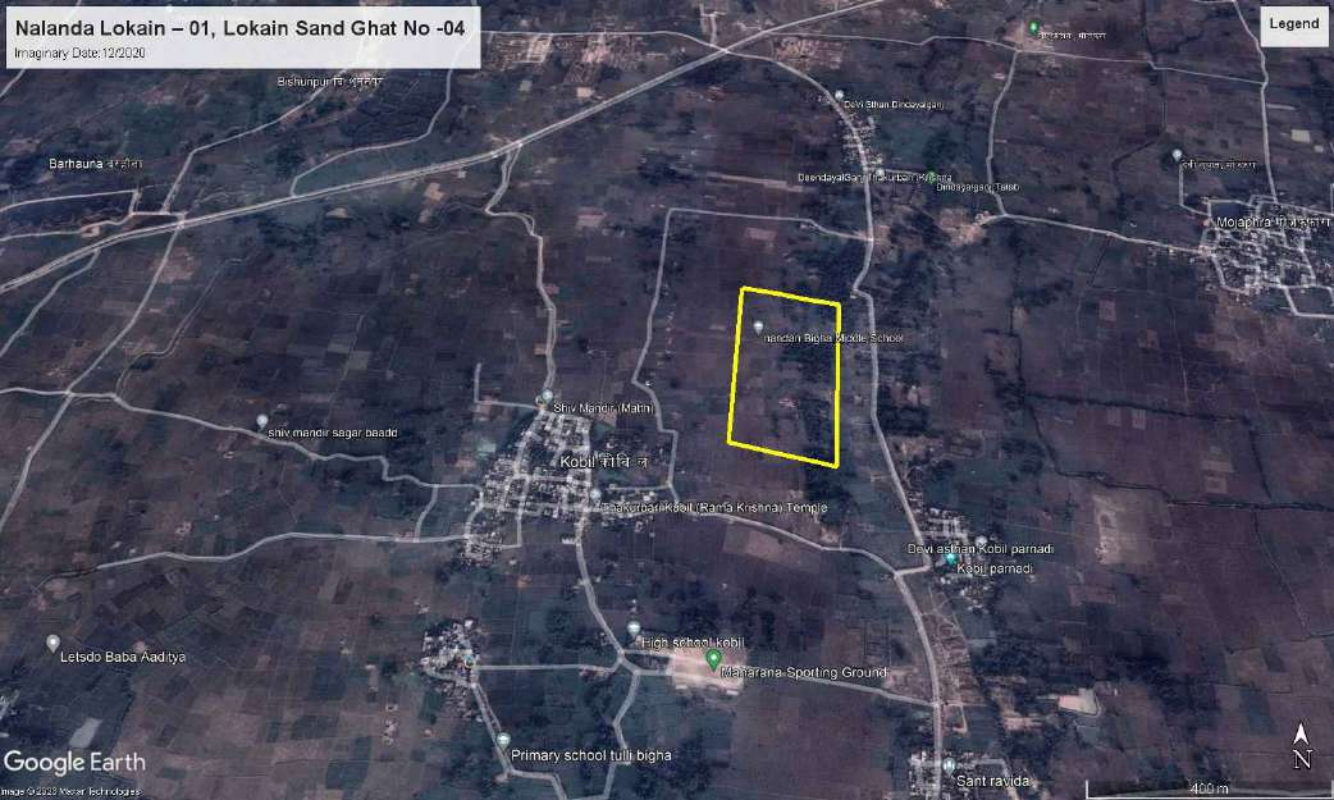
Google Earth

Map © 2020 Google
Image © 2020 Google

Nalanda Lokain – 01, Lokain Sand Ghat No -04

Imaginary Date: 12/2020

Legend



400 m

Legend

100



Nalanda Lokain – 01, Lokain Sand Ghat No -04

Imaginary Date:12/2021

Legend

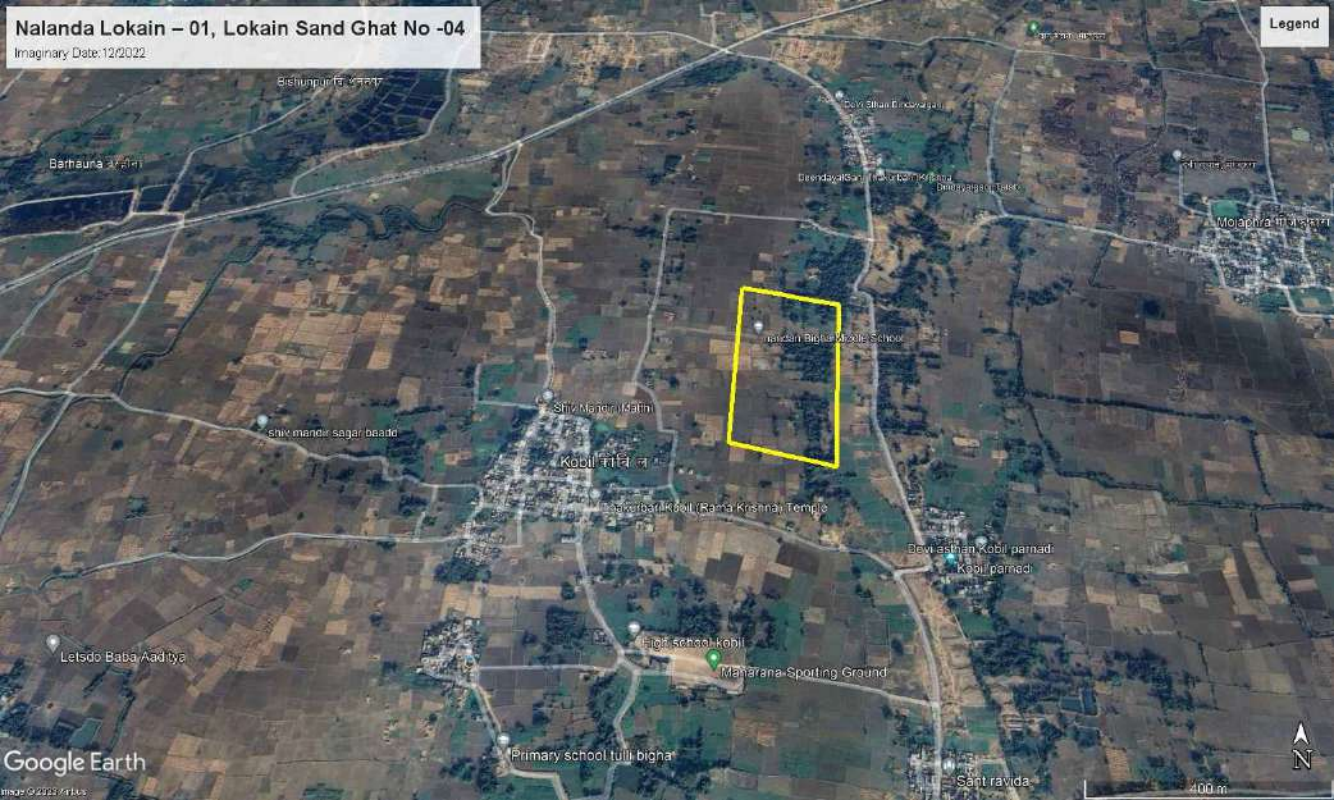


400 m

Nalanda Lokain – 01, Lokain Sand Ghat No -04

Imaginary Date: 12/2022

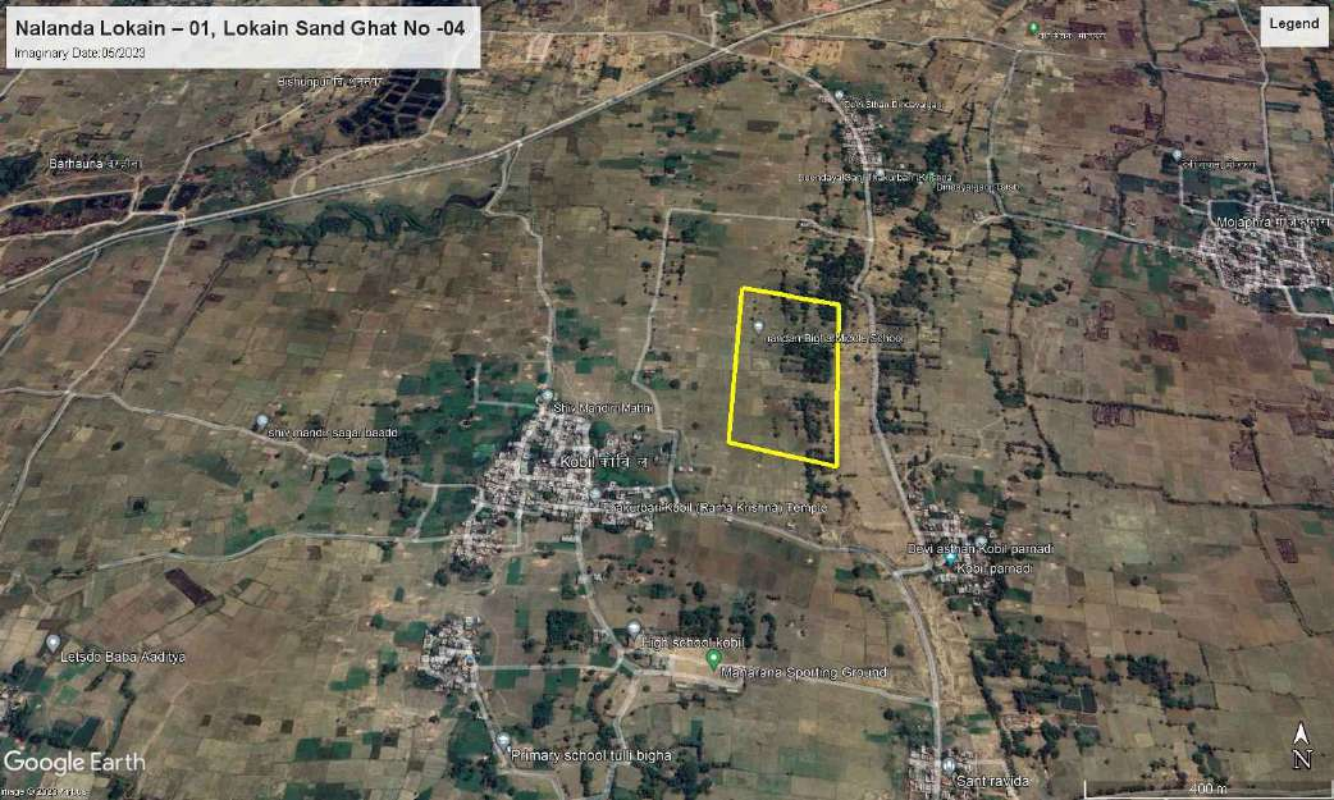
Legend



Nalanda Lokain – 01, Lokain Sand Ghat No -04

Imaginary Date: 06/2023

Legend



400 m

Annexure –VI
(Letter from DMO, Nalanda)

जिला खनन कार्यालय, नालन्दा, (बिहारशरीफ)

पत्रांक 1234 / एम0, नालन्दा दिनांक 22/03/2023

प्रेषित,

श्री नागेन्द्र कुमार,
पिता- मुन्दिका राय,
न्यू गोसाई टोला, पो0-थाना- दानापुर,
जिला- पटना पिन- 801503
ई-मेल- nk0090347@gmail.com
मो0- 9905538919

विषय-

नालन्दा जिलान्तर्गत बालूघाट सं0- 04 (लोकाईन 1), मौजा- कौबिल, अंचल-
एकंगरसराय, जिला- नालन्दा रकबा- 9.7 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।


स्वनिज विकास पदाधिकारी,
22/03/23 नालन्दा।

Annexure –VII
(Monitoring reports)



ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

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

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



ISO 45001



TEST REPORT

TEST REPORT NO : ETS/5467/03/2023

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 : KOBIL

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	70.6	35.0	10.9	26.1	0.33
2	04.03.2023	ETS/SL-008	67.6	39.8	13.9	27.8	0.43
3	08.03.2023	ETS/SL-015	66.8	39.0	11.6	23.7	0.32
4	11.03.2023	ETS/SL-022	67.4	41.8	10.4	24.6	0.38
5	15.03.2023	ETS/SL-029	69.2	36.5	14.6	27.9	0.24
6	18.03.2023	ETS/SL-036	72.0	31.8	12.7	27.2	0.30
7	22.03.2023	ETS/SL-043	76.3	45.8	10.7	24.8	0.35
8	25.03.2023	ETS/SL-050	73.2	43.9	14.9	27.7	0.49
9	01.04.2023	ETS/SL-057	69.8	46.4	13.5	27.6	0.67
10	04.04.2023	ETS/SL-064	76.6	34.4	12.6	27.2	0.60
11	08.04.2023	ETS/SL-071	81.6	39.9	13.7	25.4	0.41
12	11.04.2023	ETS/SL-078	78.3	35.9	11.3	25.8	0.64
13	15.04.2023	ETS/SL-085	82.5	38.5	12.2	25.1	0.60
14	18.04.2023	ETS/SL-092	70.8	36.5	13.0	27.4	0.34
15	22.04.2023	ETS/SL-099	71.3	32.3	14.3	24.7	0.49
16	25.04.2023	ETS/SL-106	77.0	33.8	15.2	25.2	0.68
17	01.05.2023	ETS/SL-113	83.3	30.6	10.5	24.3	0.38
18	04.05.2023	ETS/SL-120	81.2	30.9	11.5	26.9	0.60
19	08.05.2023	ETS/SL-127	79.2	31.1	11.6	25.6	0.57
20	11.05.2023	ETS/SL-134	73.9	31.5	9.1	27.0	0.46
21	15.05.2023	ETS/SL-141	76.9	31.2	10.4	28.9	0.57
22	18.05.2023	ETS/SL-148	68.7	31.4	12.6	30.1	0.65
23	22.05.2023	ETS/SL-155	67.4	30.7	11.7	24.4	0.42
24	25.05.2023	ETS/SL-162	69.9	34.1	14.4	24.5	0.65
Minimum			66.8	30.6	9.1	23.7	0.24
Maximum			83.3	46.4	15.2	30.1	0.68
Average			73.9	36.1	12.4	26.3	0.48
98 Percentile			82.9	46.1	15.1	29.5	0.67

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



Page 1 of 1

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.
 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 charges are subject to invoice value only.
 5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after analysis.
 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.

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



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



TEST REPORT

TEST REPORT NO : ETS/5468/03/2023

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 : MURGAON

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	62.8	31.1	9.7	23.3	0.30
2	06.03.2023	ETS/SL-009	60.2	35.4	12.3	24.8	0.38
3	10.03.2023	ETS/SL-016	59.4	34.8	10.3	21.1	0.29
4	13.03.2023	ETS/SL-023	59.9	37.2	9.2	21.9	0.34
5	17.03.2023	ETS/SL-030	61.6	32.5	13.0	24.9	0.21
6	20.03.2023	ETS/SL-037	64.1	28.3	11.3	24.2	0.27
7	24.03.2023	ETS/SL-044	67.9	40.8	9.6	22.1	0.31
8	27.03.2023	ETS/SL-051	65.2	39.1	13.3	24.7	0.44
9	03.04.2023	ETS/SL-058	62.1	41.3	12.0	24.6	0.59
10	06.04.2023	ETS/SL-065	68.1	30.6	11.2	24.2	0.53
11	10.04.2023	ETS/SL-072	72.6	35.5	12.2	22.6	0.36
12	13.04.2023	ETS/SL-079	69.7	32.0	10.1	23.0	0.57
13	17.04.2023	ETS/SL-086	73.4	34.2	10.8	22.3	0.53
14	20.04.2023	ETS/SL-093	63.0	32.5	11.6	24.4	0.30
15	24.04.2023	ETS/SL-100	63.4	28.7	12.7	22.0	0.44
16	27.04.2023	ETS/SL-107	68.6	30.1	13.5	22.4	0.61
17	03.05.2023	ETS/SL-114	74.2	27.2	9.4	21.6	0.34
18	06.05.2023	ETS/SL-121	72.3	27.5	10.2	23.9	0.53
19	10.05.2023	ETS/SL-128	70.5	27.6	10.3	22.7	0.51
20	13.05.2023	ETS/SL-135	65.8	28.1	8.1	24.0	0.41
21	17.05.2023	ETS/SL-142	68.4	27.7	9.2	25.7	0.51
22	20.05.2023	ETS/SL-149	61.1	28.0	11.2	26.8	0.57
23	24.05.2023	ETS/SL-156	59.9	27.3	10.4	21.7	0.37
24	27.05.2023	ETS/SL-163	62.2	30.4	12.9	21.8	0.57
Minimum			59.4	27.2	8.1	21.1	0.21
Maximum			74.2	41.3	13.5	26.8	0.61
Average			65.8	32.2	11.0	23.4	0.43
98 Percentile			73.8	41.0	13.4	26.3	0.60

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

Notes:

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
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6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

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For Enviro-Tech Services

Rushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY



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

TEST REPORT

TEST REPORT NO : ETS/5469/03/2023

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 : ISLAMPUR

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(SO ₂)	Nitrogen Dioxide(NO ₂)	Carbon Monoxide(CO)
Unit			µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³
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	53.4	26.4	8.3	19.8	0.25
2	09.03.2023	ETS/SL-010	51.2	30.1	10.5	21.1	0.32
3	12.03.2023	ETS/SL-017	50.5	29.5	8.8	17.9	0.24
4	16.03.2023	ETS/SL-024	51.0	31.6	7.8	18.6	0.29
5	19.03.2023	ETS/SL-031	52.3	27.6	11.1	21.1	0.18
6	23.03.2023	ETS/SL-038	54.5	24.1	9.6	20.6	0.23
7	26.03.2023	ETS/SL-045	57.7	34.6	8.1	18.8	0.27
8	29.03.2023	ETS/SL-052	55.4	33.2	11.3	21.0	0.37
9	03.04.2023	ETS/SL-059	52.8	35.1	10.2	20.9	0.50
10	06.04.2023	ETS/SL-066	57.9	26.0	9.6	20.6	0.45
11	09.04.2023	ETS/SL-073	61.7	30.2	10.3	19.2	0.31
12	13.04.2023	ETS/SL-080	59.2	27.2	8.6	19.5	0.48
13	16.04.2023	ETS/SL-087	62.4	29.1	9.2	19.0	0.45
14	20.04.2023	ETS/SL-094	53.5	27.6	9.8	20.7	0.26
15	23.04.2023	ETS/SL-101	53.9	24.4	10.8	18.7	0.37
16	27.04.2023	ETS/SL-108	58.3	25.6	11.5	19.0	0.52
17	04.05.2023	ETS/SL-115	63.0	23.1	8.0	18.4	0.29
18	08.05.2023	ETS/SL-122	61.4	23.4	8.7	20.3	0.45
19	11.05.2023	ETS/SL-129	59.9	23.5	8.8	19.3	0.43
20	15.05.2023	ETS/SL-136	55.9	23.9	6.9	20.4	0.34
21	18.05.2023	ETS/SL-143	58.1	23.6	7.8	21.8	0.43
22	22.05.2023	ETS/SL-150	52.0	23.8	9.6	22.8	0.49
23	25.05.2023	ETS/SL-157	51.0	23.2	8.8	18.5	0.32
24	31.05.2023	ETS/SL-164	52.9	25.8	10.9	18.5	0.49
Minimum			50.5	23.1	6.9	17.9	0.18
Maximum			63.0	35.1	11.5	22.8	0.52
Average			55.9	27.3	9.4	19.9	0.36
98 Percentile			62.7	34.9	11.4	22.4	0.51

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

Note:

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our CHECKED BY to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after analysis.
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.

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

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For Enviro-Tech Services

[Signature]
Pushkar Mittal
Lab In Charge

AUTHORIZED SIGNATORY



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

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

TEST REPORT

TEST REPORT NO : ETS5470//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 : MOZAFFARA

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	58.7	29.1	9.1	21.7	0.28
2	04.03.2023	ETS/SL-011	56.3	33.1	11.5	23.2	0.36
3	08.03.2023	ETS/SL-018	55.6	32.5	9.6	19.7	0.27
4	11.03.2023	ETS/SL-025	56.0	34.8	8.6	20.5	0.32
5	15.03.2023	ETS/SL-032	57.6	30.4	12.2	23.2	0.20
6	18.03.2023	ETS/SL-039	59.9	26.5	10.6	22.6	0.25
7	22.03.2023	ETS/SL-046	63.5	38.1	8.9	20.6	0.29
8	25.03.2023	ETS/SL-053	61.0	36.5	12.4	23.1	0.41
9	01.04.2023	ETS/SL-060	58.1	38.6	11.2	23.0	0.55
10	04.04.2023	ETS/SL-067	63.7	28.6	10.5	22.6	0.50
11	08.04.2023	ETS/SL-074	67.9	33.2	11.4	21.1	0.34
12	11.04.2023	ETS/SL-081	65.1	29.9	9.4	21.5	0.53
13	15.04.2023	ETS/SL-088	68.6	32.0	10.1	20.9	0.50
14	18.04.2023	ETS/SL-095	58.9	30.4	10.8	22.8	0.28
15	22.04.2023	ETS/SL-102	59.3	26.9	11.9	20.6	0.41
16	25.04.2023	ETS/SL-109	64.1	28.1	12.6	20.9	0.57
17	01.05.2023	ETS/SL-116	69.3	25.5	8.8	20.2	0.32
18	04.05.2023	ETS/SL-123	67.6	25.7	9.6	22.4	0.50
19	08.05.2023	ETS/SL-130	65.9	25.9	9.6	21.3	0.47
20	11.05.2023	ETS/SL-137	61.5	26.2	7.6	22.5	0.38
21	15.05.2023	ETS/SL-144	64.0	25.9	8.6	24.0	0.47
22	18.05.2023	ETS/SL-151	57.2	26.2	10.5	25.1	0.54
23	22.05.2023	ETS/SL-158	56.0	25.5	9.7	20.3	0.35
24	25.05.2023	ETS/SL-165	58.2	28.4	12.0	20.4	0.54
Minimum			55.6	25.5	7.6	19.7	0.20
Maximum			69.3	38.6	12.6	25.1	0.57
Average			61.5	30.1	10.3	21.9	0.40
98 Percentile			69.0	38.3	12.6	24.6	0.56

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



Note:-

1. Test report without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our charges are subject to invoice value only.
5. The sample must be retained after 15 days & Biological / Perishable sample shall be destroyed immediately after analysis.
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.

CHECKED BY
SHRADHA GUPTA

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For Enviro-Tech Services

 Pushkar Mittal
 Lab In-charge
 AUTHORIZED SIGNATORY



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

TEST REPORT

TEST REPORT NO : ETS/5471/03/2023

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 : NARAYANPUR
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	55.2	27.3	8.5	20.4	0.26
2	06.03.2023	ETS/SL-012	52.9	31.1	10.8	21.8	0.33
3	10.03.2023	ETS/SL-019	52.2	30.5	9.1	18.5	0.25
4	13.03.2023	ETS/SL-026	52.7	32.7	8.1	19.2	0.30
5	17.03.2023	ETS/SL-033	54.1	28.5	11.4	21.8	0.19
6	20.03.2023	ETS/SL-040	56.3	24.9	10.0	21.3	0.24
7	24.03.2023	ETS/SL-047	59.7	35.8	8.4	19.4	0.27
8	27.03.2023	ETS/SL-054	57.3	34.3	11.7	21.7	0.39
9	03.04.2023	ETS/SL-061	54.6	36.3	10.6	21.6	0.52
10	06.04.2023	ETS/SL-068	59.9	26.9	9.9	21.3	0.47
11	10.04.2023	ETS/SL-075	63.8	31.2	10.7	19.8	0.32
12	13.04.2023	ETS/SL-082	61.2	28.1	8.8	20.2	0.50
13	17.04.2023	ETS/SL-089	64.5	30.1	9.5	19.6	0.47
14	20.04.2023	ETS/SL-096	55.4	28.5	10.2	21.4	0.27
15	24.04.2023	ETS/SL-103	55.7	25.3	11.1	19.3	0.39
16	27.04.2023	ETS/SL-110	60.3	26.5	11.9	19.7	0.54
17	03.05.2023	ETS/SL-117	65.2	23.9	8.2	19.0	0.30
18	06.05.2023	ETS/SL-124	63.5	24.2	9.0	21.0	0.47
19	10.05.2023	ETS/SL-131	62.0	24.3	9.1	20.0	0.45
20	13.05.2023	ETS/SL-138	57.8	24.7	7.1	21.1	0.36
21	17.05.2023	ETS/SL-145	60.1	24.4	8.1	22.6	0.45
22	20.05.2023	ETS/SL-152	53.7	24.6	9.9	23.6	0.51
23	24.05.2023	ETS/SL-159	52.7	24.0	9.1	19.1	0.33
24	27.05.2023	ETS/SL-166	54.7	26.7	11.3	19.2	0.51
Minimum			52.2	23.9	7.1	18.5	0.19
Maximum			65.2	36.3	11.9	23.6	0.54
Average			57.8	28.3	9.7	20.6	0.38
98 Percentile			64.9	36.0	11.8	23.1	0.53

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



Page 1 of 1

For Enviro-Tech Services

Rishkar Mittal
Lab In-charge
AUTHORIZED SIGNATORY

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



ETS-LAB



TEST REPORT

TEST REPORT NO : ETS/1120/03/2023

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 : BARHAUNA
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	72.8	36.0	11.2	27.0	0.36
2	09.03.2023	ETS/SL-016	69.8	41.0	14.3	28.7	0.52
3	12.03.2023	ETS/SL-023	68.9	40.3	12.0	24.4	0.58
4	16.03.2023	ETS/SL-031	69.5	43.1	10.7	25.4	0.40
5	19.03.2023	ETS/SL-037	71.3	37.6	15.1	28.8	0.79
6	23.03.2023	ETS/SL-044	74.2	32.9	13.2	28.1	0.64
7	26.03.2023	ETS/SL-051	78.7	47.3	11.1	25.6	0.60
8	29.03.2023	ETS/SL-058	75.5	45.2	15.4	28.7	0.48
9	03.04.2023	ETS/SL-065	72.0	47.8	13.9	28.5	0.46
10	06.04.2023	ETS/SL-072	79.0	35.5	13.0	28.0	0.30
11	09.04.2023	ETS/SL-079	84.2	41.2	14.2	26.1	0.65
12	13.04.2023	ETS/SL-086	80.8	37.1	11.6	26.6	0.49
13	16.04.2023	ETS/SL-093	85.1	39.7	12.6	25.9	0.76
14	20.04.2023	ETS/SL-100	73.0	37.6	13.4	28.2	0.36
15	23.04.2023	ETS/SL-107	73.5	33.3	14.7	25.5	0.58
16	27.04.2023	ETS/SL-114	79.5	34.9	15.7	26.0	0.43
17	04.05.2023	ETS/SL-121	86.0	31.6	10.9	25.1	0.45
18	08.05.2023	ETS/SL-128	83.8	31.8	11.8	27.7	0.70
19	11.05.2023	ETS/SL-135	81.7	32.0	12.0	26.4	0.58
20	15.05.2023	ETS/SL-142	76.2	32.5	9.4	27.8	0.41
21	18.05.2023	ETS/SL-149	79.2	32.1	10.6	29.8	0.58
22	22.05.2023	ETS/SL-155	70.8	32.4	13.0	31.1	0.71
23	25.05.2023	ETS/SL-163	69.5	31.6	12.1	25.1	0.63
24	31.05.2023	ETS/SL-168	72.1	35.1	14.9	25.3	0.30
Minimum			68.9	31.6	9.4	24.4	0.30
Maximum			86.0	47.8	15.7	31.1	0.79
Average			76.1	37.1	12.8	27.1	0.53
98 Percentile			85.6	47.6	15.6	30.5	0.77

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

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results only refer to the tested samples and listed applicable parameters.
3. No liability is incurred 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 of 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.

For Enviro-Tech Services
Pushkar Mittal
AUTHORIZED SIGNATORY



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

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



TEST REPORT

TEST REPORT NO : ETS/1121/03/2023

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 : CHIRI

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)
S.N.	Monitoring Date	Sample ID	Test Results				
1	03.03.2023	ETS/SL-010	56.6	33.0	12.2	33.7	0.33
2	06.03.2023	ETS/SL-017	59.2	34.5	15.5	29.0	0.47
3	10.03.2023	ETS/SL-024	57.6	37.5	13.0	24.6	0.41
4	13.03.2023	ETS/SL-032	58.2	32.7	11.6	25.6	0.47
5	17.03.2023	ETS/SL-038	55.7	32.9	16.5	29.1	0.74
6	20.03.2023	ETS/SL-045	55.1	33.2	14.4	28.3	0.69
7	24.03.2023	ETS/SL-052	55.5	33.7	11.9	25.7	0.71
8	27.03.2023	ETS/SL-059	56.9	33.3	16.8	28.9	0.47
9	03.04.2023	ETS/SL-066	57.2	33.5	15.1	28.7	0.41
10	06.04.2023	ETS/SL-073	57.5	32.7	14.2	28.2	0.38
11	10.04.2023	ETS/SL-080	69.7	32.8	15.4	26.3	0.70
12	13.04.2023	ETS/SL-087	71.5	40.1	12.7	26.9	0.35
13	17.04.2023	ETS/SL-094	66.4	43.2	13.7	26.0	0.67
14	20.04.2023	ETS/SL-101	63.1	39.5	14.7	28.5	0.36
15	24.04.2023	ETS/SL-108	60.9	35.8	16.0	25.7	0.52
16	27.04.2023	ETS/SL-115	69.9	37.5	17.1	26.1	0.69
17	03.05.2023	ETS/SL-122	72.3	43.8	11.8	25.2	0.38
18	06.05.2023	ETS/SL-129	59.3	42.4	12.9	27.9	0.83
19	10.05.2023	ETS/SL-136	65.3	37.8	16.0	26.6	0.36
20	13.05.2023	ETS/SL-143	64.1	39.6	12.4	28.0	0.72
21	17.05.2023	ETS/SL-150	57.0	36.7	11.5	30.1	0.38
22	20.05.2023	ETS/SL-157	71.8	34.0	14.2	31.3	0.36
23	24.05.2023	ETS/SL-164	66.3	40.7	13.2	25.3	0.68
24	27.05.2023	ETS/SL-169	57.1	39.2	16.3	25.5	0.34
Minimum			55.1	32.7	11.5	24.6	0.33
Maximum			72.3	43.8	17.1	33.7	0.83
Average			61.8	36.7	14.1	27.6	0.52
98 Percentile			72.1	43.5	17.0	32.6	0.79

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



Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.

2. The test reports only refer to the tested samples and listed applicable parameters.

3. No test report will be issued 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 7 days of 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.

Page 1 of 1

For Enviro-Tech Services

 Pankaj Mittal
 AUTHORIZED SIGNATORY



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

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



TEST REPORT

TEST REPORT NO : ETS/1122/03/2023

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 : NEAR PROJECT SIR LOKAIN 01

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(SO ₂)	Nitrogen Dioxide(NO ₂)	Carbon Monoxide(CO)
Unit			µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³
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-011	65.8	31.2	11.8	29.6	0.36
2	04.03.2023	ETS/SL-018	66.0	35.6	15.1	31.6	0.41
3	08.03.2023	ETS/SL-025	67.0	34.9	12.7	26.8	0.37
4	11.03.2023	ETS/SL-033	67.6	37.4	11.3	27.9	0.42
5	15.03.2023	ETS/SL-039	64.8	32.6	15.9	31.7	0.86
6	18.03.2023	ETS/SL-046	64.0	28.5	13.8	30.8	0.47
7	22.03.2023	ETS/SL-053	64.5	41.0	11.6	28.2	0.56
8	25.03.2023	ETS/SL-060	66.2	39.2	16.3	31.5	0.52
9	01.04.2023	ETS/SL-067	66.4	41.5	14.7	31.2	0.44
10	04.04.2023	ETS/SL-074	66.9	30.7	13.7	30.8	0.57
11	08.04.2023	ETS/SL-081	73.4	35.7	15.1	28.7	0.61
12	11.04.2023	ETS/SL-088	78.2	32.1	12.4	29.3	0.63
13	15.04.2023	ETS/SL-095	75.1	34.4	13.2	28.5	0.43
14	18.04.2023	ETS/SL-102	79.1	32.6	14.2	31.0	0.42
15	22.04.2023	ETS/SL-109	67.8	28.9	15.4	28.1	0.50
16	25.04.2023	ETS/SL-116	68.3	30.2	16.6	28.5	0.35
17	01.05.2023	ETS/SL-123	82.2	27.4	11.5	27.5	0.74
18	04.05.2023	ETS/SL-130	79.9	27.6	12.5	30.5	0.76
19	08.05.2023	ETS/SL-137	84.2	27.8	12.7	29.0	0.77
20	11.05.2023	ETS/SL-144	75.9	28.2	9.9	30.6	0.55
21	15.05.2023	ETS/SL-151	70.8	27.9	11.1	32.9	0.42
22	18.05.2023	ETS/SL-158	68.5	28.1	13.7	34.2	0.46
23	22.05.2023	ETS/SL-165	74.0	27.4	12.9	36.1	0.56
24	25.05.2023	ETS/SL-170	73.6	27.5	15.7	27.8	0.83
Minimum			64.0	34.2	12.4	26.8	0.35
Maximum			84.2	51.9	20.7	36.1	0.86
Average			71.3	40.0	16.9	30.1	0.54
98 Percentile			83.3	51.6	20.5	35.2	0.85

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

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Notes:

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.

2. Test reports only refer to the tested samples and listed applicable parameters.

3. No liability is incurred 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 from 15th Nov 2023 to 02 Dec 2023. Period: 06 Dec 2023 to 04 Dec 2024. And from 04 Dec 2024 to 03 Dec 2025 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)

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/1273/05/2023

DATE OF REPORT : 10.06.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
 Date of Sampling : 22.05.2023
 Analysis Start Date : 24.05.2023
 Analysis End Date : 26.05.2023
 Sample ID No : 1273
 Sampling Done By : ETS STAFF
 Sampling Description : GROUND WATER
 Sampling Location : BARHAUNA
 Sampling Method : ETS/STP/WATER-01
 Sampling Quantity : 2.0 +0.5 Lt.
 Packing Condition : SEALED
 Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.41	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	481.2	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	217.6	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	246.2	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	131.6	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	80.4	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	39.75	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	1.52	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.35	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.12	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	0.15	0.05	1.5	APHA-3111 (B)
20.	Magnesium (Mg)	mg/L	42.02	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	0.70	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	687.7	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	19.70	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	47.94	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

Page 1 of 1

Note:-

1. Test report without ETS LAB HOLOGRAM are not issued by our laboratory.

2. The report should only refer to the tested samples and listed applicable parameters.

3. No sample shall be returned if received after 7 days of issue of test report.

4. Our liability is limited to invoice value only. 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.

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

AUTHORIZED SIGNATORY
Lab In-charge



TEST REPORT

TEST REPORT NO : ETS/1275/05/2023

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 : 1275
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : NEAR PROJECT SIR LOKAIN 01
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.22	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	487.8	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	148.9	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	255.2	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	112.2	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	56.2	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	41.31	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	1.53	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.27	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	1.14	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	<0.01	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper (Cu)	mg/L	0.18	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	29.07	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	0.60	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	673.3	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	20.65	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	54.07	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results mentioned only refer to the tested samples and listed applicable parameters.
3. No sample will be returned if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only. 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.
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

AUTHORIZED SIGNATORY
Lab In-charge



ENVIRO-TECH SERVICES

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ISO 45001

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

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

TEST REPORT

TEST REPORT NO : ETS/5579/05/2023

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 : 5579
 Sampling Done By : ETS STAFF
 Sampling Description : GROUND WATER
 Sampling Location : MURGAON
 Sampling Method : ETS/STP/WATER-01
 Sampling Quantity : 2.0 +0.5 LI.
 Packing Condition : SEALED
 Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	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	---	7.39	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	291.6	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	130.6	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	136.7	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	79.3	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	64.6	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	33.16	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.74	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.34	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.12	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	21.3	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.08	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 (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	515.7	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	18.40	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	52.5	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

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

For Enviro-Tech Services

Pushkar Mittal
 Lab In-charge
 AUTHORIZED SIGNATORY

Page 1 of 1

Note: 1. Test results and ETS LAB HOLOGRAM are not issued by our laboratory.

2. The results indicated only refer to the tested samples and listed applicable parameters.

3. No complaint will be entertained if received after 7 days of issue of test report.

4. Our liability is limited to invoice value only.

5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.

6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.



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

TEST REPORT

TEST REPORT NO : ETS/5580/05/2023

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 : 5580

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : ISLAMPUR

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	---	6.97	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	517.8	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	242.1	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	273.7	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	128.9	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	88.3	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	35.68	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.87	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.29	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.19	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	<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	27.6	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111 (B)
22.	Zinc (Zn)	mg/L	0.65	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C ₆ H ₅ OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	716.1	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	18.20	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	47.3	Not Specified	Not Specified	APHA-3500 (Na)
35.	Fecal Coliform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

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

For Enviro-Tech Services

Pushkar Mittal

AUTHORIZED SIGNATORY

Note:-

- Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
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Page 1 of 1

Format no ETS /LAB/TR-09 Issue No 04 dt 01/06/2019 Rev No 03 dt 01/06/2019

TEST REPORT

TEST REPORT NO : ETS/5581/05/2023

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 : 5581

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : MOZAFFARA

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	---	7.20	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	547.1	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	237.0	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	319.8	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	108.9	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	46.1	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	38.70	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	1.27	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	0.42	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	35.0	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111 (B)
22.	Zinc (Zn)	mg/L	0.45	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)

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Format no ETS /LAB/TR-09 Issue No 04 dt 01/06/2019 Rev No 03 dt 01/06/2019

For Enviro-Tech Services
AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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TEST REPORT

TEST REPORT NO : ETS/5581/05/2023

DATE OF REPORT : 10.06.2023

WATERSAMPLE ANALYSIS REPORT

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	785.2	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
33.	Temperature	°C	18.80	Not Specified	Not Specified	IS:3025 (Pt-9)
34.	Sodium (Na)	mg/L	61.8	Not Specified	Not Specified	APHA-3500 (Na)
35.	FecalColiform	MPN/100ml	Absent	Shall Not Be Detectable		APHA-9221

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

Page 2 of 2



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For Enviro-Tech Services

AUTHORIZED SIGNATORY
Pankaj Mittal
Lab In-charge

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TEST REPORT

TEST REPORT NO : ETS/1284/05/2023

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 : BARHAUNA
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)	47.1	55	IS: 9989
4.	Noise Level Night Time	Leq :dB (A)	32.6	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****

Note:-

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CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Lab In-charge



TEST REPORT

TEST REPORT NO : ETS/1285/05/2023

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 : 20-05-2023
Monitoring Start Date : 20-05-2023
Monitoring End Date : 21-05-2023
Monitoring Done By : ETS STAFF
Monitoring Duration : 24.0 HOURS
Place Of Monitoring : CHIRI
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)	50.6	55	IS: 9989
4.	Noise Level Night Time	Leq :dB (A)	34.1	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****

1. Test reports without ETS-LAB HOLOGRAM are not issued by our laboratory.
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For Enviro-Tech Services

AUTHORIZED SIGNATORY
 Ashish Mittal
 Lab In-charge



ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

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

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



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TEST REPORT

TEST REPORT NO : ETS/1286/05/2023

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 : 25-05-2023
Monitoring Start Date : 25-05-2023
Monitoring End Date : 26-05-2023
Monitoring Done By : ETS STAFF
Monitoring Duration : 24.0 HOURS
Place Of Monitoring : NEAR PROJECT SIR LOKAIN 01
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)	48.0	55	IS: 9989
4.	Noise Level Night Time	Leq :dB (A)	37.7	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****

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



ENVIRO-TECH SERVICES

An Analytical Laboratory



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ETS-LAB

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TEST REPORT

TEST REPORT NO : ETS/5590/05/2023

DATE OF REPORT : 10-06-2023

NOISE MONITORING REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
 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 : MURGAON
 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)	46.4	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	37.2	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****



CHECKED BY
SHRADDHA GUPTA

Page 1 of 1

For Enviro Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

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TEST REPORT

TEST REPORT NO : ETS/2624-1/05/2023

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 : KOBIL
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)	49.3	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	32.8	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****

Page 1 of 1



For Enviro-Tech Services

(Signature)
AUTHORIZED SIGNATORY
Lab in-charge

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TEST REPORT

TEST REPORT NO : ETS/5591/05/2023

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 : ISLAMPUR
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)	51.5	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	37.2	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****



Page 1 of 1

For Enviro-Tech Services
Pushkar Mittal
AUTHORIZED SIGNATORY

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TEST REPORT

TEST REPORT NO : ETS/5592/05/2023

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 : MOZAFFARA
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)	47.8	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	36.9	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****

Page 1 of 1



For Enviro-Tech Services

AUTHORIZED SIGNATORY

Lab In-charge

Note:-

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ETS-LAB

ENVIRO-TECH SERVICES

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ISO 45001

TEST REPORT

TEST REPORT NO : ETS/5593/05/2023

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 : NARAYANPUR
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)	50.8	55	IS: 9989
2.	Noise Level Night Time	Leq :dB (A)	38.7	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****

Page 1 of 1



For Enviro-Tech Services

AUTHORIZED SIGNATORY

Pushkar Mittal
Lab in-charge

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TEST REPORT

TEST REPORT NO : ETS/1296/05/2023

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-1296
Sampling Done By : ETS STAFF
Sampling & Testing Method : ETS/LAB/SOIL-01
Sampling Location : BARHAUNA
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	%	68.3	IS:2720 (Pt-4)
41.	Silt	%	23.5	IS:2720 (Pt-4)
42.	Clay	%	8.2	IS:2720 (Pt-4)
43.	pH (1:2 Suspension)	--	7.70	IS:2720 (Pt-26)
44.	Cation Exchange Capacity(CEC)	meq/100	37.3	IS:2720 (Pt-24)
45.	Electrical Conductivity (1:2)	µmho/cm	356.9	IS:14767
46.	Water Holding Capacity(WHC)	%	44.0	IS 2720 (Part-2)
47.	Sodium (Na)	mg/kg	152.9	APHA-3055B
48.	Calcium (Ca)	mg/kg	1165.1	IS 2720 (Part-23)
49.	Magnesium (Mg)	mg/kg	593.9	ETS/STP/SOIL-08
50.	Bulk Density	g/cm ³	1.39	IS 2386 (Part-4)
51.	Total Nitrogen (PO ₄)	mg/kg	178.8	APHA,Pt 4500:(N)
52.	Phosphorus (P)	mg/kg	47.1	ETS/STP/SOIL-19
53.	Potassium (K)	mg/kg	279.7	APHA-3055B
54.	Organic Matter	%	1.10	IS : 2720 (P-22)
55.	Organic Carbon	%	2.18	BS 1377 -3)
56.	Sulphate as (SO ₄)	mg/kg	2.42	IS:3025(P-24)
57.	Porosity	%	27.82	IS 13030

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



Note:-

1. Test reports **CHECKED BY** HOLOGRAM are not issued by our laboratory.
2. The results **SHRADDHA GURTA** 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 **Format No ETS/LAB/TR-02, Issue No. 05, Date 01.04.2019, Amd. No. 04 Date 01.04.2019**
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.

For Enviro-Tech Services

AUTHORIZED SIGNATORY

TEST REPORT

TEST REPORT NO : ETS/6001/05/2023

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-6001

Sampling Done By : ETS STAFF

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

Sampling Location : MURGAON

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	%	54.1	IS:2720 (Pt-4)
3.	Silt	%	25.1	IS:2720 (Pt-4)
4.	Clay	%	10.8	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.63	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100	27.6	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	319.2	IS:14767
8.	Water Holding Capacity(WHC)	%	46.3	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	175.5	APHA-3055B
10.	Calcium (Ca)	mg/kg	1108.3	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	424.5	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.33	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	180.3	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	62.6	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	336.4	APHA-3055B
16.	Organic Matter	%	0.92	IS : 2720 (P-22)
17.	Organic Carbon	%	1.71	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.54	IS:3025(P-24)
19.	Porosity	%	24.7	IS 13030

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

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4. Our liability is limited to the 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.

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





ETS-LAB



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/6002/05/2023

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-6002

Sampling Done By : ETS STAFF

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

Sampling Location : ISLAMPUR

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	%	56.7	IS:2720 (Pt-4)
3.	Silt	%	28.2	IS:2720 (Pt-4)
4.	Clay	%	15.1	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	--	7.41	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100	32.2	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	350.9	IS:14767
8.	Water Holding Capacity(WHC)	%	39.2	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	156.2	APHA-3055B
10.	Calcium (Ca)	mg/kg	1055.6	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	555.5	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.81	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	103.9	APHA, Pt 4500: (N)
14.	Phosphorus (PO ₄)	mg/kg	46.2	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	234.0	APHA-3055B
16.	Organic Matter	%	1.13	IS : 2720 (P-22)
17.	Organic Carbon	%	1.68	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	2.00	IS:3025(P-24)
19.	Porosity	%	20.8	IS 13030

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

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.

2. The results indicated only refer to the tested samples and listed applicable parameters.

3. No complaint will be entertained if received after 7 days of issue of test report.

4. Our liability is limited to invoice value only.

5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.

6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

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

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For Enviro-Tech Services

Ashish Mittal
Lab In-charge

AUTHORIZED SIGNATORY



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/6003/05/2023

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-6003

Sampling Done By : ETS STAFF

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

Sampling Location : MOZAFFARA

Sampling Quantity : 2.0 kg

Packing Condition : SEALED

Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	60.3	IS:2720 (Pt-4)
3.	Silt	%	21.0	IS:2720 (Pt-4)
4.	Clay	%	18.7	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	...	7.80	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100	20.4	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	301.5	IS:14767
8.	Water Holding Capacity(WHC)	%	34.4	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	130.2	APHA-3055B
10.	Calcium (Ca)	mg/kg	1150.8	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	495.2	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	2.00	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	137.8	APHA, PI 4500.(N)
14.	Phosphorus (PO ₄)	mg/kg	40.2	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	240.2	APHA-3055B
16.	Organic Matter	%	1.05	IS : 2720 (P-22)
17.	Organic Carbon	%	1.64	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	0.99	IS:3025(P-24)
19.	Porosity	%	13.5	IS 13030

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



Note:-

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

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

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For Enviro-Tech Services

Pushkar Mittal
Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

TEST REPORT

TEST REPORT NO : ETS/6012/05/2023

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-6012

Sampling Done By : ETS STAFF

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

Sampling Location : PROJECT SITE LOKAIN 01

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	%	75.1	IS:2720 (Pt-4)
3.	Silt	%	13.4	IS:2720 (Pt-4)
4.	Clay	%	11.5	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.85	IS:2720 (Pt-26)
6.	Cation Exchange Capacity(CEC)	meq/100	32.4	IS:2720 (Pt-24)
7.	Electrical Conductivity (1:2)	µmho/cm	348.7	IS:14767
8.	Water Holding Capacity(WHC)	%	40.3	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	150.2	APHA-3055B
10.	Calcium (Ca)	mg/kg	953.6	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	446.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.70	IS 2386 (Part-4)
13.	Total Nitrogen (PO4)	mg/kg	232.4	APHA,Pt 4500:(N)
14.	Phosphorus (P)	mg/kg	60.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	328.1	APHA-3055B
16.	Organic Matter	%	1.31	IS : 2720 (P-22)
17.	Organic Carbon	%	2.60	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	2.10	IS:3025(P-24)
19.	Porosity	%	24.3	IS 13030

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

Note:-

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

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

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For Enviro-Tech Services

Rashkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

TEST REPORT

TEST REPORT NO : ETS/2426-11/05/2023

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 : POND, TAJPUR
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.57	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.5	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	464.8	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	171.7	IS:3025 (Pt-23)
7.	Total Hardness (CaCO ₃)	mg/L	202.7	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	83.12	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	40.75	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	32.58	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	0.62	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.16	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.35	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	27.7	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	668.9	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	15.5	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.2	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	6.4	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

Note:-

Page 1 of 1

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.

2. The results indicated only refer to the tested samples and listed applicable parameters.

3. No responsibility is entertained if received after 7 days of issue of test report.

4. Only the printed voice value only.

5. The sample shall be destroyed after 15 days of the date of 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.

For Enviro-Tech Services

AUTHORIZED SIGNATORY



ENVIRO-TECH SERVICES

An Analytical Laboratory



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

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

TEST REPORT

TEST REPORT NO : ETS/2426-13/05/2023

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 : POND, MURGAON
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	---	7.72	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.69	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	474.1	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	175.1	IS:3025 (Pt-23)
7.	Total Hardness (CaCO ₃)	mg/L	268.0	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	84.8	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	41.6	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	33.23	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	0.63	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.16	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.36	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111 (B)
19.	Magnesium (Mg)	mg/L	28.25	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.1	APHA-3111 (B)
21.	Zinc (Zn)	mg/L	0.50	APHA-3111 (B)
22.	Cadmium (Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead (Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026 (Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum (mo)	mg/L	<0.05	IS:3025 (Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	682.28	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	15.81	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.26	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	6.53	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

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.

2. Test results only refer to the tested samples and listed applicable parameters.

3. Test results are valid only 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.

6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

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For Enviro-Tech Services ****End of Test Report****

AUTHORIZED SIGNATORY

TEST REPORT

TEST REPORT NO : ETS/2426-15/05/2023

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, BESHWAK

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	---	8.20	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.0	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	353.7	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	163.5	IS:3025 (Pt-23)
7.	Total Hardness (CaCO ₃)	mg/L	189.0	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	96.1	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	55.3	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	42.0	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	1.96	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	19.0	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.1	APHA-3111 (B)
21.	Zinc (Zn)	mg/L	0.82	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	555.8	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	19.6	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.36	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	6.45	APHA-5210
34.	E. Coli	MPN/100ml	150	IS:1622-1981
35.	Total Coliform	MPN/100ml	590	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	250	APHA-9221

Note:

1. Test report without ETS LAB HOLOGRAM are not issued by our laboratory.

2. The results indicated only refer to the tested samples and listed applicable parameters.

3. No complaint will be entertained if received after 7 days of issue of test report.

4. Our liability is limited to invoice value only.

5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.

6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

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For Enviro-Tech Services *****End of Test Report*****

Shradha Gupta
Lab In-charge

AUTHORIZED SIGNATORY

TEST REPORT

TEST REPORT NO : ETS/2426-16/05/2023

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 (25°11'39.24"N 85°11'59.59"E)

Sampling Method : ETS/STP/WATER-01

Sampling Quantity : 2.0 +0.5 Lt.

Packing Condition : SEALED

Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.75	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.5	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	580.3	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	213.6	IS:3025 (Pt-23)
7.	Total Hardness (CaCO ₃)	mg/L	257.1	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	142.8	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	60.4	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	36.6	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	1.29	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.32	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	23.5	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.1	APHA-3111 (B)
21.	Zinc (Zn)	mg/L	0.50	APHA-3111 (B)
22.	Cadmium (Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead (Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026 (Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum (mo)	mg/L	<0.05	IS:3025 (Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	790.2	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	26.7	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	4.81	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.07	APHA-5210
34.	E. Coli	MPN/100ml	350	IS:1622-1981
35.	Total Coliform	MPN/100ml	1180	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	640	APHA-9221

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory. Page 1 of 1

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. **CHECKED BY** limited to invoice value only.

5. **SHRADDHA GUPTA** employed after 15 days & Biological / Perishable sample shall be destroyed immediately after is **AUTHORIZED SIGNATORY**

6. This test report shall not be used in any advertisement or for evidence in the court of law without prior written permission of the laboratory.

For Enviro-Tech Services *****End of Test Report*****

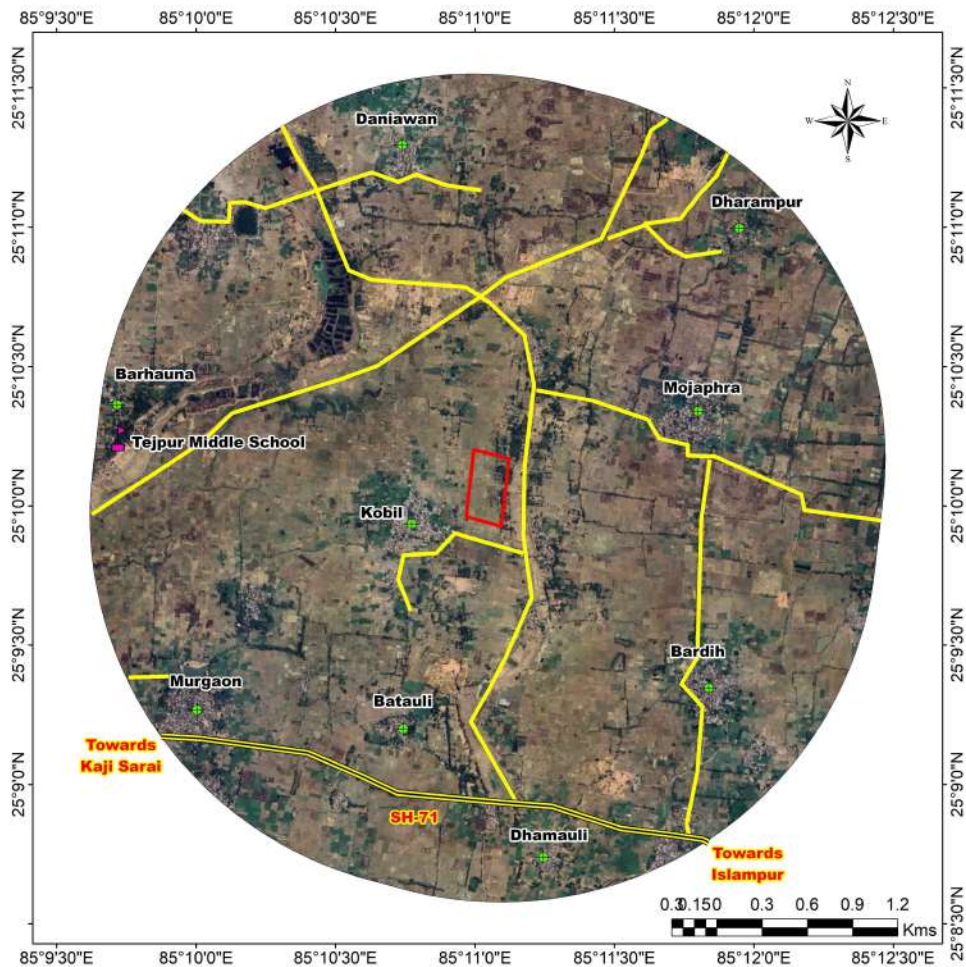
For Enviro-Tech Services

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For Enviro-Tech Services

For Enviro-Tech Services

Annexure –VIII
(2.5 Km Map showing Public Utility)



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 – 01, Lokain Sand Ghat No - 04 Sand Ghat
I	Name of the proponent	Nagendra Kumar
ii	Mailing Address	Nagendra Kumar S/o-Mundrika Rai New Gosai Tola, P.O + P.S – Danapur, District - Patna-801503 Email- nk0090347@gmail.com Phone No.- 9905538919
	E-mail	
	Telephone	--
	Fax No.	--
b	Objective of the project	Sand Mining
c	Location of mine	
	Village	Kobil
	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° 9' 56.15"N to 25° 10' 12.12"N	
	Longitude	85° 10' 58.00"E to 85° 11' 7.41"E	
	Survey of India Topo sheet number	G45N3, G45N7, G45N4, G45N8.	
	Elevation above Mean Sea Level	96.4 m to 95.8 m	
	Total mining lease area (in ha.)	9.7 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	9.7 Ha.	
f	Others (Private Land)	--	
g	Others (Own Land)	--	
	Total	9.7 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 .	Other s		Fore st	Others	Agri	Others	For est	Other	Agri .	Others
1. Area to be excavated		-	9.7 Ha.	-	--	9.7 Ha.	-	9.7 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		-	9.7 Ha.	-	-	9.7 Ha.	--	9.7 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 Sone 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	Islampur Railway Station	-	Approx. 4.6 Km towards SE
12.	National / State Highways	SH-04 SH-71	-	Approx. 2.2 Km towards East Approx. 1.7 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	121056 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)	121056 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-1986/Khanan, Nalanda, 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)	1 m	
iii	Indicate present working depth in case of existing mine (in m bgl)	--	
iv	Thickness of top soil (in m.)	--	
a	Minimum	0.0	
b	Maximum	0	
c	Average	0	
v	Thickness of overburden (in m.)		
a	Minimum	0.0	

b	Maximum	0
c	Average	--
vi	Mining Plan	
a	Height and width of the bench in overburden / waste.	0
b	Height & width of the bench in ore body / coal seam.	Height: 1 m Width : 1.5 m
c	Proposed inclination / slope of the sides of the opencast mine (separately for overburden, coal / ore and overall slope of the pit sides) both while operating the mine as well as at the time of closure of the mine.	45°
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-	<u>Not Applicable</u>
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	5302	
b	After the proposed activity		5428	
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	121056 TPA	100	1.7
b	Rail	-	-	-
c	Conveyors	-	-	-

d	Rope way	-	-	-
e	Water ways	-	-	-
f	Pipeline	-	-	-
g	Others (Specify)	-	-	-
Total		121056 TPA	100	1.7

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)

(March-2023 to May 2023)

Particulars	Min	Max	Mean
Temp, C	22.5	42.2	30.2
RH	32	68	38
Wind Speed, m/s	0.5	8.8	2.5
Solar radiation, w/m2	5000	5500	5200
Wind Direction	North East		
Rainfall	0		
No of rainy days	0		

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, SO₂, and NO_x)

[*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 winter **Season (7th December, 2022 to 5th March, 2023)**

(ii) No. of samples collected at each monitoring station: **8**

Name of monitoring equipment used	PM _{2.5} ($\mu\text{g}/\text{m}^3$)	PM ₁₀ ($\mu\text{g}/\text{m}^3$)	SO ₂ ($\mu\text{g}/\text{m}^3$)	No _x ($\mu\text{g}/\text{m}^3$)	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 $\mu\text{g}/\text{m}^3$ from 0.000 mg to 0.100 mg/ m^3	< 0.5 $\mu\text{g}/\text{m}^3$ from 0.000 mg to 0.100 mg/ m^3	< 0.5 $\mu\text{g}/\text{m}^3$ from 0.000 mg to 0.100 mg/ m^3	< 0.5 $\mu\text{g}/\text{m}^3$ from 0.000 mg to 0.100 mg/ m^3	-
Permissible AAQ standard (CPCB) R,I,S	60 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$	-
	60 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$	-
	60 $\mu\text{g}/\text{m}^3$	100 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$	80 $\mu\text{g}/\text{m}^3$	-

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		31.6	47.8	47.6	68.9	86.0	85.6	6.4	15.7	15.6	24.4	31.1	30.5	-	-	-
AQ2	24		32.7	43.8	43.5	55.1	72.3	72.1	11.5	17.1	17.0	24.6	33.7	32.6	-	-	-
AQ3	24		34.2	51.9	51.6	64.0	84.2	83.3	12.4	20.7	20.5	26.8	36.1	35.2	-	-	-
AQ4	24		30.6	46.4	46.1	66.8	83.3	82.9	9.1	15.2	15.1	23.7	30.1	29.5	-	-	-
AQ5	24		27.2	41.3	41.0	59.4	74.2	73.8	8.1	13.5	13.4	21.1	26.8	26.3	-	-	-
AQ6	24		23.1	35.1	34.9	50.5	63.0	62.7	6.9	11.5	11.4	17.9	22.8	22.4	-	-	-
AQ7	24		25.5	38.6	38.3	55.6	69.3	69.0	7.6	12.6	12.6	19.7	25.1	24.6			
AQ8	24		23.9	36.3	36.0	52.2	65.2	64.9	7.1	11.9	11.8	18.5	23.6	23.1			

*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 °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 $\mu\text{g}/\text{m}^3$)

S. No.	Pollutants	Incremental Value	Ambient Air Quality	Resultant Air Quality
1.	SPM	0.052	84.2	84.252
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 (m³/day)

Purpose	Avg. Demand	Peak Demand
A. Mine site		
1. Mine operation	-	-
2. Land reclamation	-	-
3. Dust suppression	-	-
4. Drinking & domestic	0.11	0.11
5. Green Belt & Dust Suppression	5.3	5.3
6. Beneficiation	-	-
7. Washeries	-	-
8. Fire Service	-	-
9. Others (Mining and Allied Activities))	-	-
B. <u>Township</u>		
1. Green Belt	-	-
2. Domestic	-	-
C. Other (specify)	-	-
Total	5.41	5.41

26. Source of water supply*

S. No.	Source	m ³ /day
1	River (name)	-
2	Ground water	0.11
3	Mine water (sump / pit)	--
4	Other surface water bodies (water will be tapped from plant supply)	5.3

[*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	-	-	-	0.11		0.11
2	Irrigation	-	-		-		-
3	Industry	-	-		-		-
4	Mining	-	-	-	-		-
5	Others (Dust suppression+ Green belt)	-	-	5.3		5.3	-
Total		--	--	5.3	0.11	5.3	0.11

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 m³/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	m ³ /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 (m ³ /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-	1.65 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)		--	- -
	<u>Land reclamation Plan</u>		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)		
<u>Mining Lease</u>						
1.						
<u>Township Site</u>						
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		-	9.7 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. 62.38/ 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) Noise Pollution iv) Soil Pollution	--	2.0
3	Plantation and salary for one gardener (part time basis).	1.94	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) a) Solar lighting in village Kobil (Rs. 25,000 x 5 Nos.= 5.0 Lakhs)	1.25	
	Grand Total	5.69	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.	Development activities in the village with CER amount	Installation of solar lighting in village Kobil (Rs. 25,000 x 5Nos.)	1.25	2 nd Year
	Total		1.25	

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)	30 th 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, Patna	
e	No. of people attended the public hearing meeting and number of people from the lease area.	Around 27	
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)

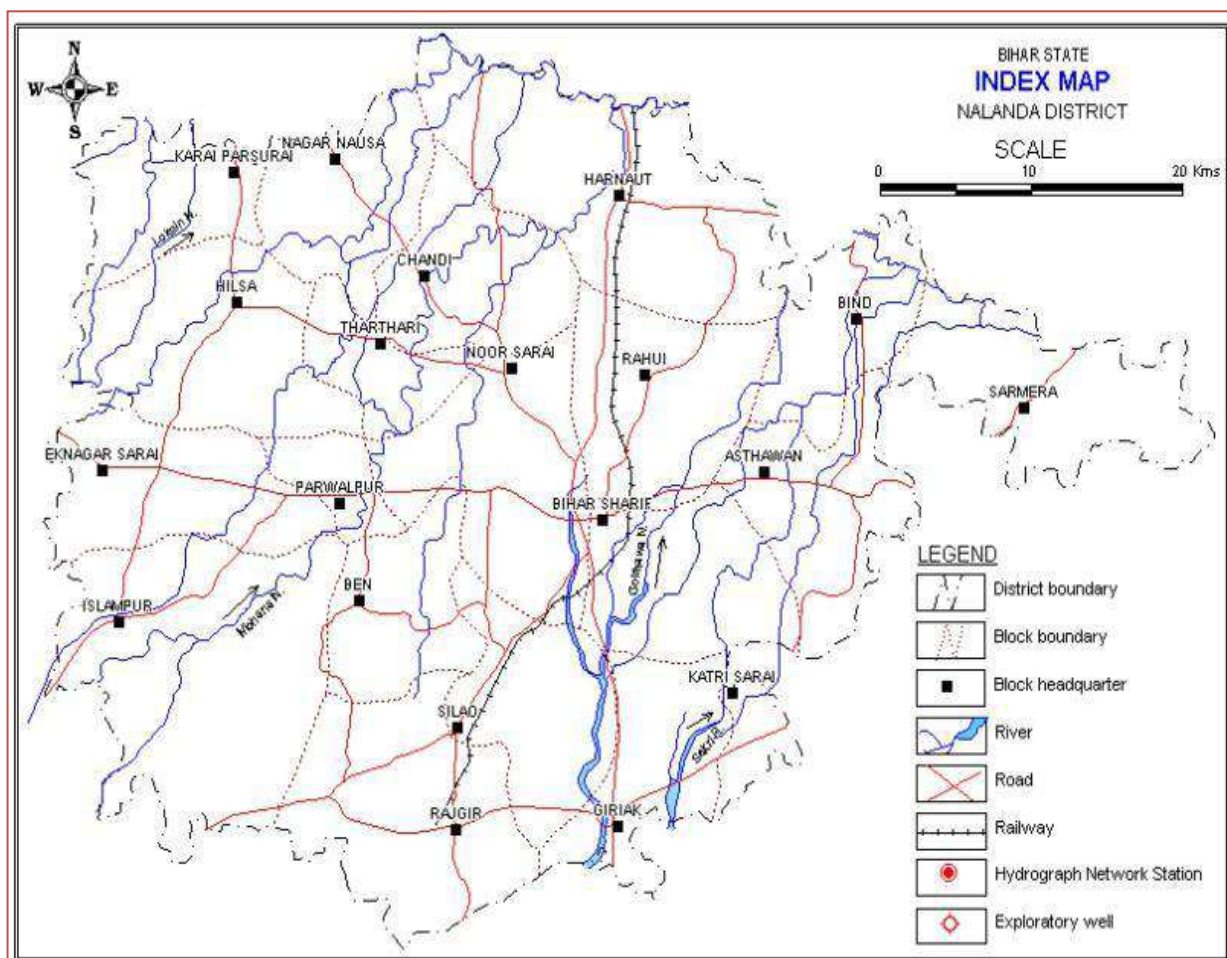


बिहार सरकार

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 and Enforcement & 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।

COMPLIANCE REPORT

Agenda Item No 21.**District Survey Report for Nalanda district****Observation of the Committee:**

SL NO	ISSUES	ACTION
1	KML file not submitted, Eco-Sensitive Zone of Rajgir Wildlife Sanctuary should also be mentioned in the KML file	KML file has been submitted showing Eco Sensitive Zone of Rajgir, Wildlife Sanctuary & Protected forest.
2	Average length and width of river and all the proposed sand ghats not provided. To check the proportion of the total river length / area taken up for sand mining in the light of the provision that only 60% of the river area should be allowed for sand mining in a district.	Complied Reference: Table No 11, Page No 45- 46 of Modified DSR
3.	Clear and high resolution color images of the proposed ghats should be submitted with DSR including the date of photographs / GPS location for identification of potential sand mining area.	Complied Reference: Annexure VIII, Page No 68 - 84 Of Modified DSR

General Resolution of the SEAC

S.N.	Issues	Revised information
1.	Justify the reasons for each sand mining Ghats	• Deposition of Sand mineral • Suitability at par of SSMG 2016 & EMGSM 2020.
2.	Many districts are already having a large number of existing mining Ghats, their detailed analysis of ground level, area demarcation, aggradations, degradation,	Complied. Reference: Table 1, Page No 11

	and depth of mining, side slopes, width and cross section should be presented to the committee.	
3.	The specific gravity of the material also needs to be ascertained by analyzing the sample from a NABL accredited lab.	Complied Reference: Annexure X, Page No. 86 – 91 of Modified DSR
4.	The permanent boundary pillars needs to be erected after identification of area of aggradations and deposition outside the bank of the river at a safe location for future surveying. The distance between boundary pillars on each side of the bank shall not be more than 100 meter.	The permanent boundary pillar shall be erected after auction by the department.
5.	Identifying the mining and no mining zone shall follow with defining the area of sensitivity by ascertaining the distance of the mining area from the protected area, forest, bridges, important structures, habitations, other vital infrastructure etc. and based on the sensitivity the area needs to be defined in sensitive and non-sensitive area.	All these factors are considered during preparation of DSR.
6.	Demand and supply of the riverbed material through market survey needs to be carried out. In addition to this future demand for the next 5 year also needs to be considered, to justify the number and area of sand Ghats.	Complied Reference: Table No. 3, Page No. 17 of Modified DSR
7.	Mining area may be so selected as to cover	Complied Sand Ghats have been proposed as per SSMG 2016 &

	the entire deposition area. Dividing a large area of deposition/aggradations into smaller mining lease should be avoided as it leads to loss of mineral and indirectly promote illegal mining.	EMGSM-2020.
8.	DSR should be placed in the public domain for at least one month from the date of publication of the advertisement for obtaining comments of the general public. The comments so received should be placed before the sub divisional committee for active consideration. Only after such consideration of DSR should be submitted before the SEAC.	Placed in the public domain but NO COMMENT obtained Reference: Annexure XI, Page No. 92 – 95 of Modified DSR
9.	In the DSR though broader process of sand coming into rivers, the process of calculation of mineral material potential, formula applicable etc. has been described but there is no actual calculation of individual Ghats in DSR.	Complied. Reference: Table No 11, Page No. 45 of Modified DSR
10.	The provision is to maintain a buffer distance of 50 meter after every 1000 meter has not been mentioned in maps provided in the DSR	Maintained Reference: KML File
11.	The committee observed that the Ghats has been proposed on the confluence/meanders/concavities/active channel which require to be excluded from the DSR. No mining area should be proposed at any bank	Such Sand Ghats have already been dropped.

	concavities to avoid bank erosion and river stability.	
12.	The committee was not shown any such map where 1/4 th part of the areas has been separated from central 3/4 th part of the area as a mineable and non mineable zone.	Complied, Reference: KML File
13.	This provision is a part of EMGSM-2020 (at page-55) in its Para 9.4 (1.1). There is no provision made about traffic concern of mineral transportation in the DSR however in EMGSM-2020 at Para 4.1 (n), avoiding habitation, selection of mining route & their verification by state govt. is mentioned. Thus, the question raised about the traffic management is not actually not an infraction of DSR guidelines. Inclusion of traffic management for all the Ghats of the district in DSR shall make the cumbersome, therefore, this has to be controlled on ease to case basis or sand Ghats wise basis based on general principle, provided in the guideline prior to starting of actual mining. This is presently done through EMP, however, on the spot at contestation points the district administration may take care of the plan once approved.	Complied Reference: (1) Annexure IV, Page No. 54 (2) Annexure VII, Page No. 63 (3) Annexure VIII, Page No 68 of Modified DSR
14.	Proposed sand Ghats to include the certificate from the concerned dept. on Forest Land Distance from Wild Life	KML File showing Eco Sensitive Zone, Wild Life Sanctuary & Protected Forest has been provided by the concerned department.

	Protected areas (WPA)	
15.	If the proposed mining area has been overlapping areas with previously allotted existing lease or already working or worked out mining lease that the same should be clearly depicted in the proposed mining area with different color. Details about the quantity of sand extracted from the overlapped area should be furnished dully certified from the concerned department.	Complied. Reference (1) Table No. 14, Page No. 47 (2) Annexure IV, Page No. 54 – 57 of Modified DSR
16.	For these DSR which is not supported by replenishment study, the depth of mining should not be done beyond 01 meter depth till such study is conducted through any recognized institute or agency. Each mining area should be developed and checked for the sediment rating curve for the potential sites against the extracted volume of sand and gravel. Include the bed material and bed material load before, during and after the extraction period. Using the historical or gauged flow rating curve, determine the suitable period of high flow that can replenish the extracted volume. Calculate the extracted volume based on the sediment rating curve and high flow period after determining the allowable mining depth.	Replenishment Study not carried out, so Quantity of sand been calculated based on 1 meter depth from the surface in proposed sand ghats. Reference: Table No. 11, Page No. 45, of Modified DSR
17.	What is the reason behind proposing the depth of mining only 03 meters, in almost	Taken depth of Sand mining, 1 meter below the surface as Replenishment study been not

	all the districts, the proposed depth of mining is 03 meters, which is practically not possible, this makes the calculation doubtful.	carried out. Reference: Table No 11, Page No. 45 of Modified DSR
18.	In rain fed rivers (dry rivers), what is your plan to maintain the depth of riverbed (maintain morphology) to avoid drowning of animal and people. There is mention in the DSR in case of rain fed river (seasonal river) about the plan to maintain the depth of such river bed (Maintain morphology and to avoid drowning of animal and people)	To avoid drowning of animal and people, fencing will be done and danger sign mark shall be displayed once mining starts.
19.	The reason behind selecting only 04 points as boundary for each sand mining site is not justified.	Corner points are taken only.
20.	Provide average length and width of river and all the proposed sand Ghats not provided. To check the proportion of total river length/area taken up for sand mining in the light of the provision that only 60% of the river area should be allowed for the sand mining in the district.	Complied Reference: Table No. 11, Page No. 45 of Modified DSR
21.	Provide different color maps for proposed and existing sand mining area and also submit, State, District Wildlife sanctuary, Eco Sensitive Zone Boundary in different color maps and KML to check the suitability of the mining site.	Complied Reference: (1) KML File (2) Google Maps, Annexure VIII, Page No. 68 - 84 of Modified DSR

22.	To show only a maximum of 60% mining area for removal of minerals in each identified sand ghat depicted in the map /KML for each sand ghat.	Complied Reference: KML File & Table No. 11, Page No. 45 Of Modified DSR
23.	Submit a map and KML file regarding aquatic animal found in river.	General aquatic animals like Fish, frogs are found in the river. Sensitive aquatic animals are not observed or reported.
24.	No mining area proposed within 10 KM radius from urban area/city especially Patna, Muzaffarpur and Gaya.	Not applicable
25.	Calculate the mineable mineral potential in the prescribed format (SSMG 2016, as prescribed in page no-25 and 26)	complied Reference: Table No. 11. Page No. 45 of Modified DSR
26.	The list of Brick Kilns/ Stone Boulders mineral should not be included in the DSR.	Complied
27.	In the revenue generated detail of last three years through sand mining, mention the revenue generated only through sand mining. It should be for each mine area with respect to sand mining done. (Ghats wise detail of quantity of sand extracted and revenue generated annually) for the past three years. Only sand mining revenue should be included in DSR not brick kilns/other minerals revenue.	Complied Reference: Table No 2, Page No. 16 of Modified DSR
28.	All the Annexure prescribed in the EMGSM, 2020 should be dully filled and complete.	Complied. Reference: Annexures I-VII, Page No. 48-63 of Modified DSR.

29.	In almost all the DSRs specific gravity of the sand mentioned as 1.8, otherwise this figure changes with the size and weight of the sand particle over the length of the river system. This figure should be as per arrived following the procedure laid down in EMGSM-2020 (Page No-17(E) & 28 (5.2).	Specific gravity of Sand been tested by NABL accredited lab & report of the same been attached. Reference: Annexure X, Page No. 86 – 91 of Modified DSR
30.	Wherever the location of sand Ghats in close proximities, cluster formation should be done, as per the prescribed guideline, in the prescribed format. For each cluster, one common environmental clearance should be obtained as prescribed.	Complied. Total 4 Clusters have been formed. Reference: Annexure III, Page No. 53 of Modified DSR
31.	The DSR should not disclaim the data provided through “disclaimer” clause, as has been observed in four district DSRs.	Complied Reference: References, Page No. 96 of Modified DSR
32.	The DSR should justify through figure and map, to prove the only maximum 60% of the total river area in the district is subjected to sand mining (including both the existing and proposed sand mining Ghats.	Less than 10% of the River bed area have been proposed for sand mining. Reference: Table No. 10, Page No. 44 of Modified DSR
33.	The entire district should display A board of WLS Near (10 KM) the sand mining areas.	The proposed Sand Ghats are under consideration. Once ghat gets approved, the district shall display A board of WLS Near (10 KM) the sand mining areas.
34.	The entire district should put N (north) symbol on the map image of proposed sand	Complied Reference: Annexure VIII, Page

	mining Ghats.	No 68 – 84 of Modified DSR
35.	Old and proposed sand mining Ghats must be mentioned in all the DSRs (list maps & KML file).	Complied Reference: (1) KML File (2) Table No. 1, Page No. 11 (3) Table No 8, Page No. 39 of Modified DSR
36.	District Boarder Line (Bold Mark) should be mentioned in the map/Image/KML file in all DSR.	Complied Reference: (1) KML File (2) Annexure VIII, Page No 68 of Modified DSR
37.	All the primary and secondary data should be supported by paper references and documentary support.	Complied Reference: Page No. 96
38.	FMISC (Flood Management Improvement Support Centre), a R &D unit under WRD (Water Resource Department) has high resolution satellite maps of river system of Bihar. These comprises of recent as well as of past years. District authorities may contact the office of FMISC for procurement of geo referenced map of the river to support the DSR.	Letter has been given to FMISC, Bihar. We provide the same after getting it.

Ref No.: 132, Patna

Date: 07/04/2022

MINUTES OF 08th MEETING OF STATE LEVBL EXPERT APPRAISAL COMMITTEE (SEAC). BIHAR CONSTITUTED ON 12.08.2021

Venue: SEIAA Office, Patna

Date: 25th March 2022

Agenda Item No 27: District Survey Report for Nalanda district

Observation of the Committee:

SL NO	ISSUES	COMPLIANCE
I	Clear and high resolution color images of the proposed ghats should be submitted with DSR including the date of photographs/ GPS location for identification of potential sand mining area.	Complied Reference: Annexure VIII, Page No. 68 – 84 of Modified DSR
II	The permanent boundary pillars need to be erected after identification of an area of aggradation and deposition outside the bank of the river at a safe location for future surveying. The distance between boundary pillars on each side of the bank shall not be more than 100 meters.	The permanent boundary pillar shall be erected after auction by the department and preparation of the mine Plan.
III	The DSR should be placed in the public domain for at least	Complied, NO COMMENT obtained Reference: Annexure XI, Page No 92 – 95 of Modified DSR

	one month from the date of publication of the advertisement for obtaining comments of the general public, The comments so received shall be placed before the concerned sub divisional committee for active consideration for necessary corrections, if any. Only after such consultation of the DSR should be submitted before the SEAC.	
IV	The committee observed that sand ghats have been proposed on the Confluence / meanders / concavities / active Channels which require to be excluded from the DSR. No mining area should be proposed at any bank concavities to avoid bank erosion and river instability.	Such sand ghats have been excluded from the DSR which lies on the Confluence / meanders / concavities / active Channels. Previously 72 Sand Ghats were proposed but now left only 26.
V	In case sand ghat is located near by the Forest/ Wildlife Protected Area. (Bird Sanctuary / Wildlife Sanctuary / National Park / Tiger Reserve) a certificate regarding distance of such ghat from the boundary of Forest/ Protect Area as well	Complied, No sand ghats are proposed within 1 KM from such places. Reference: KML file

	as the notification status and extent of the Eco-Sensitive Zone issued by the Ministry of Environment, Forest and Climate Change, Govt. of India should be enclosed with the DSR.	
VI	If the proposed mining area has overlapping areas with previously allotted existing lease or already working or worked out mining lease then the same should be clearly depicted in the proposed mining area quantity of Sand extracted from the certified from the concerned Department.	Complied. Reference- (1) Table No. 14 on Page No 47. (2) Annexure IX , Page Nos. 85, of Modified DSR.
VII	Provide different colour map for proposed and existing sand mining area and also submit State, District Wildlife Sanctuary, Eco-Sensitive Zone boundary in different colour map and KML file to check the suitability of the mining site.	Complied Reference: Annexure VIII & IX Page No. 68 - 85 of Modified DSR.
VIII	It should be for each mine area with respect to sand mining done. [Ghats wise details of quantity of sand extracted and revenue	Complied Reference: Table 2, Page No 16, of Modified DSR

	generated (annually) for the past three years]. Only Sand mining revenue should be included in DSR not brick kiln & other minerals revenue.	
IX	All the Annexures as prescribed in the EMGSM, 2020 should be duly filled and complete.	Complied Reference: Annexure I to VII Page No 48- 63 of Modified DSR
X	All the primary and secondary data should be supported by proper references and documentary support along with the page number in the compliance report of revised DSR.	Complied Reference: Page No. 96 of Modified DSR
XI	FMISC (Flood Management Improvement Support Center), a R&D unit under WRD (Water Resource Department) at Anishabad has high resolution satellite maps of river systems of Bihar. District Authorities may contact the office of FMISC for procurement of geo-referenced maps of the river to support the DSR	Application for the said documents have been given to FMISC. These will be submitted once we obtain the documents.
XII	Replenishment study has been submitted by the concerned district without any factual data. Submit the table	Replenishment study has not been carried out so quantity in proposed sand ghats calculated based on 1 meter mining below the ground.

	of estimation of sand resources in Pre-monsoon and post monsoon period sand deposit, with respect to the Reduced Level.	Reference: Table 11 Page No. 45 - 46 of Modified DSR
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FORMATION OF SUB DIVISIONAL COMMITTEE

समाहरणालय, नालन्दा।

(खनन शाखा)

आदेश

माननीय उच्चतम न्यायालय ने सरकार द्वारा दायर सिविल अपील संख्या-3661-3662/2020 बिहार राज्य एवं अन्य बनाम पवन कुमार एवं अन्य के मामले में दिनांक-10.11.2021 को पारित अंतरिम आदेश के आलोक में प्रधान सचिव, खान एवं भूतत्व विभाग, बिहार, पटना के पत्रांक-3350, दिनांक-12.11.2021 द्वारा निदेश दिया गया है कि बिहार राज्य के सभी जिलों में जिला सर्वेक्षण प्रतिवेदन (DSR) नये सिरे से अनुमंडलीय समिति द्वारा 6 सप्ताह के भीतर बनाकर जिलाधिकारी के माध्यम से SEAC को समीक्षा एवं मूल्यांकन हेतु भेजा जाना है। SEAC द्वारा 6 सप्ताह के भीतर अपना प्रतिवेदन SEIAA को भेज दिया जाना है, जो 6 सप्ताह के भीतर इसे अनुमोदित करेगा (माननीय उच्चतम न्यायालय द्वारा दिनांक-10.11.2021 को पारित अंतरिम आदेश एवं विभागीय पत्र की छायाप्रति संलग्न)।

साथ ही यह भी निर्देशित किया गया है कि माननीय उच्चतम न्यायालय के निर्देशानुसार अविलंब अनुमंडल स्तरीय समिति का गठन किया जाय जिसमें राजस्व, जल संसाधन, खान एवं भूतत्व, पर्यावरण एवं वन तथा राज्य प्रदूषण नियंत्रण बोर्ड के पदाधिकारी सदस्य होंगे।

तदलोक में नालन्दा जिला के जिला सर्वेक्षण प्रतिवेदन (DSR) नये सिरे से बनाने हेतु नालन्दा जिलान्तर्गत तीन अनुमंडलों के लिए तीन अनुमंडल स्तरीय समिति निम्नवत् गठित की जाती है:-

बिहारशरीफ अनुमंडल:-

- | | |
|--|---------------|
| 1. अनुमंडल दण्डाधिकारी-सह-पदाधिकारी, बिहारशरीफ | - अध्यक्ष। |
| 2. कार्यपालक अभियंता, सिंचाई प्रमण्डल, बिहारशरीफ | - सदस्य। |
| 3. पर्यावरण एवं वन विभाग के पदाधिकारी | - सदस्य। |
| 4. बिहार राज्य प्रदूषण नियंत्रण बोर्ड के पदाधिकारी | - सदस्य। |
| 5. खनिज विकास पदाधिकारी, नालन्दा | - सदस्य सचिव। |

राजगीर अनुमंडल:-

- | | |
|--|---------------|
| 1. अनुमंडल दण्डाधिकारी-सह-पदाधिकारी, राजगीर | - अध्यक्ष। |
| 2. कार्यपालक अभियंता, लघु सिंचाई प्रमण्डल, बिहारशरीफ | - सदस्य। |
| 3. पर्यावरण एवं वन विभाग के पदाधिकारी | - सदस्य। |
| 4. बिहार राज्य प्रदूषण नियंत्रण बोर्ड के पदाधिकारी | - सदस्य। |
| 5. खनिज विकास पदाधिकारी, नालन्दा | - सदस्य सचिव। |

हिलसा अनुमंडल:-

- | | |
|--|---------------|
| 1. अनुमंडल दण्डाधिकारी-सह-पदाधिकारी, हिलसा | - अध्यक्ष। |
| 2. कार्यपालक अभियंता, बाढ़ नियंत्रण एवं निस्सरण प्रमण्डल, एकांगरसराय | - सदस्य। |
| 3. पर्यावरण एवं वन विभाग के पदाधिकारी | - सदस्य। |
| 4. बिहार राज्य प्रदूषण नियंत्रण बोर्ड के पदाधिकारी | - सदस्य। |
| 5. खनिज विकास पदाधिकारी, नालन्दा | - सदस्य सचिव। |

उक्त गठित समिति को निम्नलिखित निर्देश दिया जाता है:-

1. उक्त गठित समिति 6 सप्ताह के भीतर सभी बालू संबंधित जगहों का निरीक्षण कर एवं नई तकनीक का प्रयोग कर जिला सर्वेक्षण रिपोर्ट (प्रारूप) तैयार कर जिलाधिकारी के माध्यम से SEAC को भेजना सुनिश्चित करेगी।
2. समिति जिले की सभी नदियों एवं किनारे पड़े बालू का सर्वेक्षण कर जिले में बालू खनन क्षेत्र का एवं बालू घाटों को चिह्नित करेगी। साथ ही जिले में अवैध खनन के स्थानों को घायनित कर यहां भी बालूघाटों को चिह्नित करेगी ताकि अवैध खनन रोका जा सके।
3. उक्त गठित समिति जिला सर्वेक्षण रिपोर्ट (प्रारूप) को बनाने के क्रम में पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार द्वारा निर्गत 2016 एवं 2020 की संबंधित मार्गदर्शिका के अनुसार कार्रवाई सुनिश्चित करेगी।

कृपया इसी सर्वोच्च प्राथमिकता देते हुए माननीय उच्चतम न्यायालय द्वारा पारित अंतरिम आदेश में निर्धारित समयवधि यथा 6 सप्ताह के भीतर जिला सर्वेक्षण रिपोर्ट (प्रारूप) तैयार कर कृत कार्रवाई की सूचना अद्योहस्ताक्षरी को उपलब्ध कराना सुनिश्चित करें।

HO/-
समाहर्ता,
नालन्दा।

ज्ञापक- 1689 / एगो, नालन्दा, दिनांक- 16/11/2021

प्रतिलिपि:- वन प्रमण्डल, पदाधिकारी, नालन्दा को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। अनुरोध है कि प्रत्येक अनुमण्डल स्तरीय गठित समिति के सदस्य के रूप में अपने अधीनस्थ एक-एक पदाधिकारी को नामित कर अविलम्ब सूचित करेंगे।

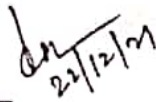
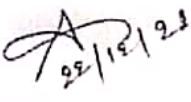
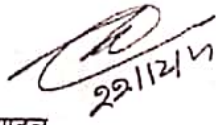
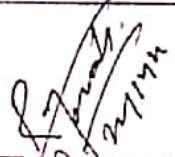
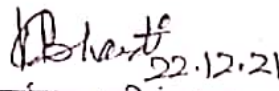
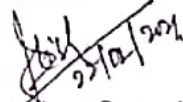
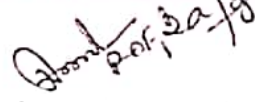
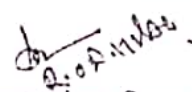
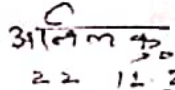
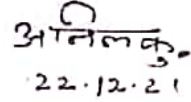
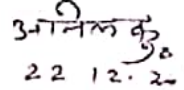
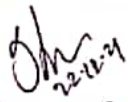
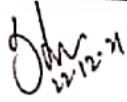
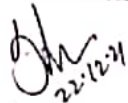
प्रतिलिपि:- सदस्य सचिव, बिहार राज्य प्रदूषण नियंत्रण बोर्ड को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित। अनुरोध है कि प्रत्येक अनुमण्डल स्तरीय गठित समिति के सदस्य के रूप में अपने अधीनस्थ पदाधिकारी को नामित कर अविलम्ब सूचित करेंगे।

प्रतिलिपि:- अनुमण्डल पदाधिकारी, बिहारशरीफ, राजगीर, हिलसा / कार्यपालक अभियंता, सिधौ प्रमण्डल, बिहारशरीफ / कार्यपालक अभियंता, लघु सिधौ प्रमण्डल, बिहारशरीफ / कार्यपालक अभियंता, बाढ़ नियंत्रण एवं निस्सरण प्रमण्डल, एकंगरसराय / खनिज विकास पदाधिकारी, नालन्दा को सभी अनुलग्नक सहित सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

प्रतिलिपि:- प्रधान सचिव, खान एवं भूतत्व विभाग, बिहार, पटना की सेवा में सादर सूचनार्थ समर्पित। अनुरोध है कि विभागीय स्तर से अधिसूचित किसी विशेषज्ञ RQP की सेवा तकनीकी एवं अन्य सहयोग हेतु उपलब्ध कराने की कृपा की जाय।


रामाहर्ता,
नालन्दा।

जिला सर्वेक्षण प्रतिवेदन (DSR) बनाने में समाहर्ता महोदय के अध्यक्षता में गठित अनुमण्डल समिति में विभिन्न पदाधिकारियों का हस्ताक्षर:-

बिहारशरीफ अनुमण्डल	राजगीर अनुमण्डल	हिलसा अनुमण्डल
 अनुमण्डल दण्डाधिकारी-सह-पदाधिकारी, बिहारशरीफ।	 अनुमण्डल दण्डाधिकारी-सह-पदाधिकारी, राजगीर।	 अनुमण्डल दण्डाधिकारी-सह-पदाधिकारी, हिलसा।
 कार्यपालक अनियता, सिवाई प्रमण्डल, बिहारशरीफ।	 कार्यपालक अनियता, लघु सिवाई प्रमण्डल, बिहारशरीफ।	 कार्यपालक अनियता, बाढ़ नियंत्रण एवं निस्सारण प्रमण्डल, एकंगरसराय।
 पर्यावरण एवं वन विभाग के पदाधिकारी।	 पर्यावरण एवं वन विभाग के पदाधिकारी।	 पर्यावरण एवं वन विभाग के पदाधिकारी।
 22.12.21 बिहार राज्य प्रदूषण नियंत्रण बोर्ड के पदाधिकारी।	 22.12.21 बिहार राज्य प्रदूषण नियंत्रण बोर्ड के पदाधिकारी।	 22.12.21 बिहार राज्य प्रदूषण नियंत्रण बोर्ड के पदाधिकारी।
 खनिज विकास पदाधिकारी, नालन्दा।	 खनिज विकास पदाधिकारी, नालन्दा।	 खनिज विकास पदाधिकारी, नालन्दा।

ANNEXURE-V**Compliance to Enforcement and Monitoring Guidelines for Sand Mining- 2020****Final List of Potential Mining Leases (existing proposed) Rivers**

River Details	Lease Details	Area (in Ha)	Distance (in KM) from PA/ BR/ WC/	Distance from Forest Area(in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in Tonnes /Annum considering digging depth max as 3 meters	Mineral to be mined (Sand in MT)	Existing/Proposed
Sakri River	Sakri 1	20.6	9.1	5.2	Yes	3053880	610776	Proposed
	Sakri 2	22.3	9.5	5.7	Yes	6089400	1217880	Proposed
	Sakri 3	30	9.3	5.7	Yes	2686680	537336	Proposed
	Sakri 4	6.73	11.5	8.2	Yes	2637720	527544	Proposed
	Sakri 5	7	16.8	14.4	Yes	1438200	287640	Proposed
	Sakri 6	5.82	25.5	22.3	Yes	654840	130968	Proposed
Panchane River	Panchane 1	7.25	3.8	1.4	Yes	738000	73800	Proposed
	Panchane 2	21	4.2	2.5	Yes	707250	75030	Proposed
	Panchane 3	3.72	5.8	3.7	Yes	393600	61500	Proposed
	Panchane 4	3	6.7	5.0	Yes	627300	55350	Proposed

Lokain River	Lokain 1	9.7	25.3	20.5	No	561600	112320	Proposed
	Lokain 2	10	26.8	22.0	No	624000	124800	Proposed
	Lokain 3	12	28.5	23.4	No	780000	156000	Proposed
	Lokain 4	7.4	28.9	24.7	No	1310400	262080	Proposed
	Lokain 5	8.25	32.0	28.0	No	1029600	205920	Proposed
Mohane River	Mohane 1	3.5	23.2	17.4	No	219450	43890	Proposed
	Mohane 2	2.9	23.1	27.9	No	181830	36366	Proposed
Soiwa River	Soiwa 1	2	17.9	16.4	Yes	307500	61500	Proposed
	Soiwa 2	2.52	18.7	17.3	Yes	276750	55350	Proposed
	Soiwa 3	1.28	19.5	18.0	Yes	153750	30750	Proposed
	Soiwa 4	1	20.3	18.4	No	160515	32103	Proposed
Jirain River	Jirain 1	2.76	32.5	30.2	Yes	344655	68931	Proposed
	Jirain 2	2.3	32.7	31.3	Yes	352107	70421	Proposed
	Jirain 3	2.3	35.7	33.7	Yes	352107	70421	Proposed

Patta Lands/Khatedari Land :(existing &proposed)

Owner	Sy. No	Area	District	Tehsil	Village	Total reserve(MT)	Total Mineral to be mined (MT)	Existing /Proposed
Not applicable								

De-Siltation Location: (Lakes/Ponds/ Dams etc.) (Existing &proposed)

Name of Reservoir/Dams	Maintain/ Controlled by State Govt./ PSU etc.	Location	District	Tehsil	Village	Size(Ha)	Quantity MT/Year	Existing/ Proposed
Not Applicable								

M-Sand Plants: (existing & proposed)

Plant ame	Owner	District	Tehsil	Village	Geo- location	Quantity Tonnes/ Annum	Existing/ Proposed
Not Applicable							