

Annexure –I
Letter of Intent (LOI)



जिला खनन कार्यालय, भोजपुर (आरा)

मोबाईल नं०- 9431011832

E-mail ID- bhojpurmining@gmail.com

पत्रांक- 4735

/खनन, दिनांक- 26/11/2022

प्रेषित,

संशोधित

Bimal Kumar,
S/o-Shyam Sundar Yadav,
Add-Kurji, PO-Kurji More,
PS-Digha, Dist-Patna-800010
Mob-9334575112, email-vimal9334575@gmail.com

विषय

भोजपुर जिलान्तर्गत सोन नदी के बालूघाट/बालूखण्ड संख्या-40 की आगामी पाँच वर्षों के लिए बन्दोबस्ती हेतु दिनांक-21.11.2022 को सम्पन्न ई-नीलामी में उच्चतम् डाकवक्ता घोषित होने के फलस्वरूप सैद्धांतिक स्वीकृत्यादेश के संबंध में।

महाशय,

उपर्युक्त विषयक भोजपुर जिलान्तर्गत सोन नदी के बालूघाट/बालूखण्ड संख्या-40, रकबा-39.5 हेक्टेयर की आगामी पाँच वर्षों के लिए बन्दोबस्ती हेतु दिनांक-21.11.2022 को सम्पन्न ई-नीलामी में आपके द्वारा रु. 10,66,50,000/- (दस करोड़ छियासठ लाख पच्चास हजार रुपये मात्र) की सुरक्षित जमा राशि के विरुद्ध उच्चतम् डाक की राशि रु. 12,79,80,000/- (बारह करोड़ उन्नासी लाख अस्सी हजार रुपये मात्र) की बोली लगाये जाने के फलस्वरूप आप उच्चतम् 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 रु. 53,32,500/- (तीरपन लाख बत्तीस हजार पाँच सौ रुपये मात्र) के भुगतान का साक्ष्य दिनांक-24.11.2022 को कार्यालय में प्रस्तुत किया गया है।

निविदा दस्तावेज की कंडिका 20(i)(ii)(iii)(iv)(v) के आलोक में जिलान्तर्गत सोन नदी के बालूघाट/बालूखण्ड संख्या-40 का सैद्धांतिक स्वीकृति के शर्त एवं बंधेज निम्नवत् हैं :-

1. बालूघाट/बालूखण्ड संख्या-40 से संबंधित विवरणी निम्नवत् है :-

क्र.	नदी का नाम	रकबा (हेक्टेयर में)	Geo Coordinates	
			Latitude	Longitude
1	सोन (Perennial)	39.5	25° 12' 1.831" N	84° 29' 29.000" E
			25° 12' 14.161" N	84° 29' 17.272" E
			25° 12' 23.965" N	84° 29' 38.020" E
			25° 12' 23.99" N	84° 29' 46.30" E
			25° 12' 16.759" N	84° 29' 56.099" E
			25° 12' 13.537" N	84° 29' 51.478" E
			25° 12' 2.432" N	84° 29' 30.154" 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		हाँ (रकबा 64 हे.)।	
5	पुरातात्विक स्थल से दूरी		लागू नहीं।	
6	खनन योग्य मात्रा		711000 घनमीटर	
7	अंचल/मौजा/थाना संख्या		तरारी/ईमादपुर/425	
8	खाता संख्या		466	
9	खेसरा संख्या		1721, 1722	

2. भुगतान की शर्तें :-

- (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 बंदोबस्ती 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।

3. **GST का भुगतान :-** जी0एस0टी0 के रूप में प्रचलित दर के अनुसार राशि वाणिज्य कर विभाग को भुगतान करना होगा। जिला खनन कार्यालय, भोजपुर में जी0एस0टी0 भुगतान का प्रमाण प्रत्येक किस्त के साथ देना होगा।
4. **आयकर/अन्य करों का भुगतान :-** आयकर अधिनियम के तहत आयकर एवं उस पर नियमानुसार देय अधिभार का भुगतान आयकर विभाग के प्रचलित दर के अनुसार एक मुश्त करना होगा। यह राशि बंदोबस्ती राशि के प्रत्येक किस्त के साथ देय होगी। जिला खनन कार्यालय, भोजपुर द्वारा यह राशि आयकर मद में जमा करा दी जायेगी।
5. **जिला खनिज फाउण्डेशन :-** Bihar District Mineral Foundation Rules, 2018 के अनुसार बंदोबस्ती राशि की दो (2) प्रतिशत राशि जिला खनिज फाउण्डेशन, भोजपुर के नाम भुगतये बैंक ड्राफ्ट के माध्यम से करना होगा।
6. **वैधानिक अनापत्ति :-** बालूघाट संचालन हेतु आवश्यक समस्त वैधानिक अनापत्ति/अनुमति यथा:- खनन योजना, पर्यावरणीय स्वीकृति, जल एवं वायु सहमति आदि निर्धारित अवधि के अन्दर आपके द्वारा प्राप्त करना होगा। वैधानिक अनापत्ति/अनुमति प्राप्त करने के 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 उल्लिखित प्रावधानों के अनुसार सफल डाकवक्ता/बंदोबस्तधारी 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/बंदोबस्तधारी द्वारा किया जायेगा। साथ ही खनन योजना की जाँच हेतु समाहर्ता/विभाग अन्य ऐजेंसी चयनित कर सकेगा, जिसका निर्धारित फीस/खर्च भी बंदोबस्तधारी को ही वहन करना होगा। सफल डाकवक्ता/बंदोबस्तधारी खनन योजना के अनुसार खनन करना सुनिश्चित करेंगे।
 - ii. **पर्यावरणीय स्वीकृति:-** सफल डाकवक्ता/बंदोबस्तधारी 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 पश्चात सफल डाकवक्ता अधिकतम 07 (सात) दिवस के अंदर 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 बंदोबस्ती 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. बंदोबस्ती 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 बंदोबस्ती विलेख अथवा उसके समरूप एक प्रपत्र, कार्य आरंभ करने के पहले, निष्पादित करेगा तथा विहित अपेक्षित राशि संबंधित विभाग में जमा कर देगा। बंदोबस्तधारी के पट्टे की अवधि विलेख/संविदा निष्पादन की तिथि से पाँच वर्षों के लिए विधिमान्य होगा।
 - ii. बंदोबस्तधारी 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 (समनुदान, अवैध खनन, परिवहन एवं भण्डारण निवारण) नियमावली, 2019 के नियम-50 के अनुरूप किया जा सकेगा।

9. सामान्य शर्तें :-

- (i) निविदादाता/सफल डाकवक्ता/बंदोबस्तधारी द्वारा ई-मेल के माध्यम से किया गया पत्राचार ही मान्य होगा।
- (ii) बन्दोबस्ती लेने के बाद सभी बालूघाटों के लिये 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 करना होगा। यदि इसमें कोई बदलाव होता है तो उसकी भी सूची अविलम्ब पोर्टल पर अपलोड/उपलब्ध करायेंगे।
- (iii) बंदोबस्तधारी नदी तट से बालू प्रेषण के बिन्दु पर एक साईनबोर्ड एवं सीमा स्तंभ का अधिष्ठापन करायेगा जिसपर बंदोबस्तधारी का नाम एवं पता, बंदोबस्ती 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) बंदोबस्तधारी 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) बंदोबस्तधारी 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 बंदोबस्ती रद्द कर दी जाएगी। बालूघाटों/नदी तल तक बालू के परिवहन के प्रयोजनार्थ पहुँच-पथ (अप्रोच रोड) का निर्माण सफल डाकवक्ता/बंदोबस्तधारी द्वारा स्वयं अपने खर्च से किया जाएगा।
- (vi) बालूघाट की सुरक्षा की जिम्मेदारी सफल डाकवक्ता/बंदोबस्तधारी की होगी।

- (vii) सफल डाकवक्ता/बंदोबस्तधारी बंदोबस्त क्षेत्र के भीतर किसी अवैध खनन के लिए जिम्मेवार होंगे और पाई गई किसी शिकायत पर गंभीरता से विचार किया जाएगा तथा सफल डाकवक्ता/बंदोबस्तधारी के विरुद्ध नियमानुसार कार्रवाई की जाएगी।
- (viii) सफल डाकवक्ता/बंदोबस्तधारी 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 बंदोबस्ती रद्द करने की कार्रवाई की जा सकेगी।
- (x) सफल डाकवक्ता/बंदोबस्तधारी को खनन राजस्व/जी0एस0टी0/आयकर/स्टाम्प शुल्क/रजिस्ट्रेशन फीस का भुगतान नहीं करने की दशा में 30 दिनों के अंदर कारण स्पष्ट करने हेतु नोटिस दी जायेगी। निर्धारित अवधि के अंदर सफल डाकवक्ता/बंदोबस्तधारी द्वारा बकाया का भुगतान करने में असफल रहने की दशा में राशि वसूली की कार्रवाई के साथ-साथ बंदोबस्ती रद्द करने की भी कार्रवाई की जाएगी।
- (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, भोजपुर का होगा। बालूघाटों का सीमांकन एवं नियमानुसार निर्धारित आयाम/विशिष्टियों का सीमा स्तंभ का अधिष्ठापन GPS Co-ordinate के अनुसार बालू बंदोबस्तधारी को कराना होगा तथा खनन के क्रम में संधारित कराना सफल डाकवक्ता/बंदोबस्तधारी 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, भोजपुर में समर्पित करना होगा।
- (xii) बालूघाट से लिंक रोड और बालूघाट के बीच कोई प्राकृतिक जल मार्ग सिंचाई नहर पड़ती हो तो सफल डाकवक्ता/बंदोबस्तधारी जल संसाधन विभाग की पूर्व अनुमति से अस्थायी संरचनाएँ खड़ा कर सकेगा। पूर्व अनुमति के लिए ऐसे आवदेन 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 भंडारण निवारण) नियमावली 2019, (यथा संशोधित) के अधीन होगा।
- (xvi) सफल डाकवक्ता/बंदोबस्तधारी को इलेक्ट्रॉनिक माध्यम से भेजी गयी कोई भी सूचना/निदेश/आदेश इत्यादि IT-Act के तहत स्वीकार्य साक्ष्य के रूप में माना जायेगा।

इस कार्यालय के पत्रांक— 4726, दिनांक— 25.11.2022 द्वारा निर्गत सैद्धांतिक स्वीकृत्यादेश में Bimal Kumar के स्थान पर टंकण भूलवश Vimal Kumar अंकित हो गया है, जिसे इस हद तक संशोधित समझा जाए।


 खनिज विकास पदाधिकारी,
 भोजपुर, आरा।

Annexure –II
(Mine Plan Approval Letter)

**बिहार सरकार,
खान एवं भूतत्व विभाग।**

पत्रांक— 6304 — /एम0, पटना, दिनांक— 21/12/2022
प्रेषक,

कमलेश कुमार सिंह
संयुक्त सचिव।

सेवा में,

Email

Bimal Kumar,
S/o-Shyam Sundar Yadav,
Add-Kurji, PO-Kurji More,
PS-Digha, Dist-Patna-800010
Email-vimal9334575@gmail.com

विषय:— **भोजपुर जिला के सोन नदी बालूघाट सं0- 40 के खनन योजना के अनुमोदन के संबंध में।**

महाशय,

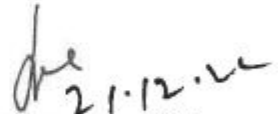
उपर्युक्त विषय के संबंध में कहना है कि बिहार बालू खनन नीति-2019 यथा संशोधित एवं बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) के नियम-17 में वर्णित प्रावधानों के तहत **भोजपुर जिला के सोन नदी बालूघाट सं0- 40** से संबंधित समर्पित खनन योजना के अनुमोदन पर प्राधिकृत 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 ऑकड़ों 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. खनन कार्य के दौरान घाट संचालनकर्ता द्वारा पर्यावरण संबंधी मानकों का नियमित रूप से अनुश्रवण करने की व्यवस्था करनी होगी। खनन 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 खनन कार्य वर्जित होगा।
16. बालूघाटों से बालू का निष्कासन एवं प्रेषण आबादी से सटे ग्रामीण सड़क को छोड़कर अलग मार्ग से करना होगा।
17. खनन योजना की एक-एक प्रति, जो संबंधित RQP द्वारा प्रत्येक पृष्ठ पर हस्ताक्षरित होगी, निदेशक, खान एवं भूतत्व विभाग के कार्यालय के अतिरिक्त समाहर्ता, भोजपुर के गोपनीय कोषांग, उपनिदेशक, पटना अंचल, पटना 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 भोजपुर सोन नदी बालूघाट सं०- 40 से संबंधित समर्पित खनन योजना के अन्तर्गत ही बालू उत्खनन कार्य सुनिश्चित कराया जायेगा।

विश्वासभाजन


(कमलेश कुमार सिंह)
संयुक्त सचिव



Annexure –III
(Public Hearing Proceedings)

लोक-सुनवाई की सूचना

- मेसर्स बिजेन्द्र कुमार, पिता-भूपनाथ राय, ग्राम-जीवराखन टोला, पोस्ट-ज्यापुर, धाना-मनैर, जिला-पटना-801503 द्वारा सोन 28 बालू घाट, मौजा-बंसोदिहरी, प्रखंड-सहार, जिला-भोजपुर,
- श्री बिमान कुमार, पिता-श्री श्याम सुंदर यादव, पता-कुर्जी, डाकघर-कुर्जी गौर, धाना-दोधा, जिला-पटना-800010 द्वारा सोन 40 बालू घाट, मौजा-इमादपुर, प्रखंड-तारो, जिला-भोजपुर,
- मेसर्स मां राजेश्वरी कंस्ट्रक्शन प्रा. लिमिटेड, निदेशक-श्री बीरेंद्र कुमार यादव, ग्राम-पीओ- फुलवरिया, धाना-मकंर, जिला-सारन-841460 द्वारा सोन 03 बालू घाट, मौजा-कोईलवर और सुरीधा, ब्लॉक-कोईलवर, जिला-भोजपुर,
- मेसर्स कोचस पावर प्रा. लि0, निदेशक-श्री कुशल आहूजा, पोस्ट एंड-गांव-पीओ-तेंदनी, पीएस-जगदीशपुर, जिला-भोजपुर-802158 द्वारा सोन 12 बालू घाट, मौजा-बलरा, प्रखंड-संदेश, जिला-भोजपुर एवं
- श्री मंजीत चावला, पिता- श्री अमरजीत सिंह चावला, पता-जी0201, प्रिंट बिहार, दिल्ली-110092 द्वारा सोन 35 बालू घाट, मौजा-खराओ चतुर्भुज, प्रखंड-सहार, जिला-भोजपुर

उपरोक्त 5 संवेदक द्वारा सोन नदी के बालूघाट (Bhoj SON-28, Bhoj SON-40, Bhoj SON-03, Bhoj SON-12 एवं Bhoj SON-35) में बालू खनन परियोजना से संबंधित प्रस्ताव प्राप्त है। इस परियोजना के कार्यान्वयन के पूर्व पर्यावरणीय स्वीकृति हेतु पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के ई.आई.ए. अधिसूचना संख्या एस.ओ. 1533, दिनांक 14.09.2006 तथा संशोधित, के आलोक में परियोजना को TOR (Terms of Reference) निर्गत किया गया है तथा लोक-सुनवाई की जानी है।

परियोजना का पर्यावरण प्रभाव मूल्यांकन प्रतिवेदन तैयार किया गया है जिसमें सम्भावित कंप्रभावों को निरस्त करने के उपाय प्रस्तावित हैं। उक्त प्रतिवेदन तथा परियोजना के कार्यपालक सार को प्रति जिला पदाधिकारी, भोजपुर; कार्यपालक पदाधिकारी, जिला परिषद, भोजपुर, जिला उद्योग केंद्र, भोजपुर एवं जिला खनन कार्यालय, भोजपुर के अतिरिक्त बिहार राज्य प्रदूषण नियंत्रण पर्षद, मुख्यालय, पटना के कार्यालय में प्रभावित क्षेत्र के लोगों के अवलोकनार्थ उपलब्ध है। परियोजना की विवरणी का अवलोकन पर्षद के वेबसाइट: <http://bspcb.bihar.gov.in> पर भी किया जा सकता है। वैसे व्यक्ति जो इस परियोजना से प्रभावित होने वाले हों, अपना लिखित सुझाव/ विचार एवं मंतव्य इस सूचना प्रकाशन के 30 दिनों के अन्दर पर्षद कार्यालय में जमा कर सकते हैं। साथ ही पर्षद के ई-मेल- msbspcb-bih@gov.in पर अथवा डाक के माध्यम से भी लिखित सुझाव/विचार एवं मंतव्य भेजी जा सकती है।

परियोजना प्रभाव क्षेत्र के नागरिकों के लिए लोक-सुनवाई निम्नानुसार आहूत किया गया है:-

दिनांक	समय	अंचल का नाम	बालू घाट का मौजा	बालू घाट का नाम	लोक-सुनवाई का स्थल
19.06.2023	पूर्वाह्न 11:00 बजे	सहार	बंसोदिहरी	Bhoj SON-28	अंचल कार्यालय सहार, सहार, जिला- भोजपुर।
19.06.2023	अपराह्न 03:00 बजे	तारो	इमादपुर	Bhoj SON-40	अंचल कार्यालय तारो, तारो, जिला- कोईलवर
20.06.2023	पूर्वाह्न 11:00 बजे	कोईलवर	कोईलवर और सुरीधा	Bhoj SON-03	अंचल कार्यालय कोईलवर, कोईलवर, जिला- भोजपुर।
20.06.2023	अपराह्न 03:00 बजे	संदेश	बलरा	Bhoj SON-12	अंचल कार्यालय संदेश, संदेश, जिला- भोजपुर।
21.06.2023	पूर्वाह्न 11:00 बजे	सहार	खराओ चतुर्भुज	Bhoj SON-35	अंचल कार्यालय सहार, सहार, जिला- भोजपुर।

सभी आम लोगों/ संबंधितों से अनुरोध है कि उपरोक्त लोक-सुनवाई के दौरान सरकार द्वारा निर्गत कोविड-19 गाईड लाईन का पालन करते हुए परियोजना के संबंध में अपने मंतव्य/ सुझाव/ विचार से अवगत करायेंगे।

सदस्य-सचिव

बिहार राज्य प्रदूषण नियंत्रण पर्षद

परिवेश भवन, पाटलिपुत्र औद्योगिक क्षेत्र, पटना-800 010

दूरभाष नं०- 0612-2261250/2262265, फैक्स- 0612-2261050

ई-मेल-msbspcb-bih@gov.in, वेबसाइट- <http://bspcb.bihar.gov.in>





बिहार राज्य प्रदूषण नियंत्रण पर्षद

परिवेश भवन, एन.एस-बी/2, पाटलीपुत्र, औद्योगिक क्षेत्र,
पो0-सदाकत आश्रम, पटना-800010

पटना, दिनांक:

पत्रांक:

प्रेषक,

एस0 चन्द्रशेखर, भा0 वग0 से0

सदस्य-सचिव

सेवा में,

सदस्य सचिव,

राज्य पर्यावरण समाघात निर्धारण प्राधिकरण,

बेल्फोन भवन, शास्त्री नगर,

पटना-800023.

विषय: श्री विमल कुमार, पिता-श्री श्याम सुंदर यादव, पता-कुर्जी, पोस्ट-कुर्जी मोरे, थाना-दीघा, जिला-पटना द्वारा सोन-40 बालू घाट, मौजा-इमादपुर, प्रखंड-तरारी, जिला-भोजपुर में स्थित बालू घाट से बालू उत्खनन कार्य हेतु सम्पन्न लोक सुनवाई के संबंध में।

महाशय,

उपरोक्त विषयक के प्रसंग में सूचित करना है कि पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के अधिसूचना सं0-S.O. 1533, दिनांक 14 सितम्बर, 2006 के आलोक में श्री विमल कुमार, पिता-श्री श्याम सुंदर यादव, पता-कुर्जी, पोस्ट-कुर्जी मोरे, थाना-दीघा, जिला-पटना द्वारा सोन-40 बालू घाट, मौजा-इमादपुर, प्रखंड-तरारी, जिला-भोजपुर से बालू खनन हेतु प्राप्त आवेदन के आलोक में दिनांक: 19.06.2023 अपराह्न 03:00 बजे सम्पन्न लोक सुनवाई का वृत्त, उपस्थिति पंजी एवं संबंधित सी0 डी0 की प्रति संलग्न कर अग्रेतर कारवाई हेतु भेजी जा रही है।

अनुलग्नक: यथोपरि।

विश्वासभाजन

ह0/-

(एस0 चन्द्रशेखर)

सदस्य-सचिव

पटना, दिनांक :-

ज्ञापांक :-

प्रतिलिपि:- जिला पदाधिकारी, भोजपुर को सूचनार्थ एवं आवश्यक कारवाई हेतु प्रेषित।

अनुलग्नक: यथोपरि।

ह0/-

(एस0 चन्द्रशेखर)

सदस्य-सचिव

ज्ञापांक :-

प्रतिलिपि:- श्री विमल कुमार, पिता-श्री श्याम सुंदर यादव, पता-कुर्जी, पोस्ट-कुर्जी मोरे, थाना-दीघा

जिला-पटना को सूचनार्थ प्रेषित।

अनुलग्नक: यथोपरि।

पटना, दिनांक :-

ह0/-
(एस0 चन्द्रशेखर)
सदस्य-सचिव

ज्ञापांक :- 1309.

पटना, दिनांक :- 13/7/23

प्रतिलिपि:-श्री नीरज कुमार, सहायक प्रोग्रामर, वि. रा. प्र. नि. पर्वद, पटना को निदेश है कि दिनांक 19.06.2023 को की गई लोक सुनवाई का वृत्त, उपस्थिति पंजी एवं संबंधित सी0 डी0 की प्रति पर्वद के वेबसाईट पर डिसप्ले कराया जाय।

अनुलग्नक: यथोपरि।


(एस0 चन्द्रशेखर)
सदस्य-सचिव 13/7/23

लोक सुनवाई का वृत्त।

श्री बिमल कुमार, पिता-श्री श्याम सुंदर यादव, पता-कुर्जी, पोस्ट-कुर्जी मोरे, थाना-दीघा, जिला-पटना द्वारा सोन-40 बालू घाट, मौजा-इमादपुर, प्रखंड-तरारी, जिला-भोजपुर के अन्तर्गत परियोजना से संबंधित पर्यावरणीय स्वीकृति के वारंते पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के अधिसूचना सं०-एस.ओ.1533, दिनांक 14 सितम्बर, 2006 के तहत दिनांक 19.06.2023 को अपराह्न 03:00 बजे अंचल कार्यालय तरारी, तरारी, जिला-भोजपुर में लोक सुनवाई की गयी।

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार अधिसूचना सं०-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/I(a)/2090/2022, dt.11.01.2023 के आलोक में श्री मनोज कुमार झा, अपर समहर्ता, भोजपुर (जिला पदाधिकारी, भोजपुर के प्रतिनिधि) की अध्यक्षता में बिहार राज्य प्रदूषण नियंत्रण पर्यद, द्वारा दिनांक 19.06.2023 को अपराह्न 03:00 बजे अंचल कार्यालय तरारी, तरारी, जिला-भोजपुर में लोक-सुनवाई आयोजित की गयी। उपस्थिति पंजी संलग्न (अनुलग्नक-1)

इस लोक-सुनवाई की सूचना बिहार राज्य प्रदूषण नियंत्रण पर्यद द्वारा दैनिक समाचार पत्रों यथा दैनिक जागरण, टाइम्स ऑफ इंडिया के माध्यम से दिनांक 12.05.2023 को प्रकाशित की गयी थी (प्रतिलिपि संलग्न)। लोक-सुनवाई के दौरान श्री आशीष कुमार गुप्ता, क्षेत्रीय पदाधिकारी, बिहार राज्य प्रदूषण नियंत्रण पर्यद, 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 सं०-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 आमिर अख्तर ने इकाई की खनन कार्य परियोजना, प्रदूषण नियंत्रण व्यवस्था एवं कॉर्पोरेट 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 3 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 (390 नं०) का कार्य किया जायेगा। बालू खनन के दौरान पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के Sustainable Sand Mining Management

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

परियोजना प्रस्तुततिकरण के पश्चात् उपस्थित महानुभावों द्वारा दिए गए सुझाव/मंतव्य निम्नवत है:-

क्रमांक	नाम एवं पता	प्रतिक्रिया/सुझाव
1.	श्री निर्मल कुमार सिंह, ग्राम-इमादपुर, जिला-भोजपुर।	इनके द्वारा पूछा गया कि बालू खनन कितने फीट तक किया जायेगा। पर्यावरणीय सलाहकार द्वारा बताया गया कि बालू खनन सतह से 03 मीटर (लगभग 10 फीट) गहराई तक किया जायेगा। ओभर लोडिंग नहीं किया जायेगा।
2.	श्री विकास पाण्डेय, ग्राम-इमादपुर, जिला-भोजपुर।	इनके द्वारा पूछा गया कि बालू खनन परियोजना से स्थानीय लोग को क्या लाभ मिलेगा। पर्यावरणीय सलाहकार द्वारा बताया गया कि प्राथमिकता के आधार पर स्थानीय लोग को रोजगार प्रदान किया जायेगा। प्रत्यक्ष एवं अप्रत्यक्ष रूप से रोजगार का सृजन होगा। स्थानीय क्षेत्र के आस-पास ग्रीनवेल्ट विकास किया जायेगा, क्षेत्र में सामाजिक, आर्थिक वातावरण पर सकारात्मक प्रभाव पड़ेगा।
3.	श्री सुनील कुमार सिंह, ग्राम-इमादपुर, जिला-भोजपुर।	इनके द्वारा बताया गया कि बालू को तिरपाल से ढककर ले जाते समय भी बालू गिरते हुए जाता है। 03 मीटर गहराई तक बालू खनन किया जाना है। लेकिन उससे ज्यादा खनन कर लेते हैं। पर्यावरणीय सलाहकार द्वारा बताया गया कि गाड़ी को तिरपाल से ठीक से ढककर ले जायेंगे। ओभर लोडिंग नहीं किया जायेगा। नियमित रूप से जल-छिड़काव किया जायेगा। सतह से 03 मीटर गहराई से अधिक बालू खनन होने पर स्थानीय लोग शिकायत कर सकते हैं।
4.	श्री सुधांशु कुमार पाण्डेय, ग्राम-इमादपुर, जिला-भोजपुर।	इनके द्वारा सुझाव दिया गया कि बालू खनन परियोजना में पार्किंग की व्यवस्था होना चाहिए। जिससे यातायात बाधित न हो।

खनिज विकास पदाधिकारी, भोजपुर द्वारा बताया गया कि खनन प्रभावित क्षेत्र के लिए जिला खनिज फाउंडेशन में संचित राशि से इस क्षेत्र में शिक्षा, स्वास्थ्य, पेय-जल इत्यादि पर खर्च करने का प्रावधान है। खनन परियोजना के कुल लागत का 2% राशि इसमें संचित होता है। मिशन कायाकल्प के तहत खनन प्रभावित क्षेत्र का विकास किया जाता है। इस क्षेत्र के प्रभावित आम जनता भी अपना मांग रख सकती है, इस राशि से उसको पूरा करने का अनुशंसा किया जायेगा।

अध्यक्ष 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 3 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। पेड़ लगाने का लक्ष्य कम-से-कम 500 किया जाय। पीपल, बरगद, आम, जामुन, बरहर, नीम जैसे छायादार एवं फलदार पेड़ लगाया जाय। रैयत के मांगने पर निःशुल्क पेड़ उपलब्ध कराया जाय।

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

30-6-23
क्षेत्रीय पदाधिकारी
बि.रा.प्र.नि.पर्वद, पटना

अपर समर्थता,
भोजपुर

श्री बिमल कुमार, पिता-श्री श्याम सुंदर यादव द्वारा सोन -40 बालू घाट, मौजा-इमादपुर, अंचल-तरारी, जिला-भोजपुर में आयोजित लोक-सुनवाई के दौरान उपस्थित व्यक्तियों की सूची:

स्थान- अंचल कार्यालय तरारी,

दिनांक: 19.06.2023 समय-03:00 P.M.

क्र.स.	नाम	पता	हस्ताक्षर
1.	श्री अजीज कुमार झा	आपल - लमार्का, भोजपुर	19/6/23
2.	आशीष कुमार गुप्ता	रमोपडा, बि.ल.पु.नं. 4 पंच. पटना	19-6-23
3.	आनंद प्रसाद	रविवर बिकाल, भोजपुर	19/6/23
4.	Amit Akhtar	Rion Enrilo Patna	19/6/23
5.	मो.श.श्री. आनंद	Keen Enrilo Patna	Keen
6.	वि.रा.ह. ल.	B. S. D. C. B. Patna	Vi/ra/h/l.
7.	मुन्ना पांडेय	ग्रा.पं. + पं. + थाना - इमादपुर जिला - भोजपुर	मुन्ना पांडेय 19-06-23
8.	अमितेश कुमार पाण्डे	ग्रा.पं. + पं. + थाना - इमादपुर जिला - भोजपुर	अमितेश कुमार पाण्डे 19/06/2023
9.	निर्मल कुमार	आ.पि.न.म. - इमादपुर, भोजपुर	निर्मल कुमार 19-6-23
10.	कांशाल कुमार	ग्राम पं. + थाना - इमादपुर	Kaushal Kumar 19/6/23
11.	Munna Kumar	Imadpur	Munna Kumar
12.	रमेश कुमार	इमादपुर	Ramesh Kumar
13.	Sarvagya	Imadpur	Sarvagya Kumar
14.	अमोल कुमार	इमादपुर	अमोल कुमार
15.	वि.रा.ह. ल.	इमादपुर	Vi/ra/h/l.
16.	मनोज पांडे	इमादपुर	My
17.	मन. अ. ल.	इमादपुर	My
18.	ग्रा.पं. + पं. + थाना - इमादपुर	इमादपुर	My

19.	अनुराध पंडे	इमादपुर	(A)
20.	यादु सिंह	इमादपुर	gaurav.
21.	विनय पंडे	इमादपुर	Ru
22.	चन्दन का	इमादपुर	cu
23.	अरु कुमार	इमादपुर	Dr
24.	विपु कुमार	इमादपुर	Dr
25.	रंजन पांडे	इमादपुर	Ranjan Pandey
26.	चन्दन पांडे	इमादपुर	Chandam Pandey
27.	विनय पांडे	इमादपुर	th
28.	अनुराध कुमार	इमादपुर	Anuradha Kumar
29.	अनुराध कुमार	गाम + पो + थाना इमादपुर	अनुराध
30.	चन्दन कुमार	गाम + पो + थाना इमादपुर	Chander
31.	विपु कुमार	गाम + पो + थाना इमादपुर	विपु कुमार
32.	विपु कुमार	गाम + पो + थाना इमादपुर	Bipu
33.	अनुराध कुमार	गाम + पो + थाना इमादपुर	अनुराध कुमार
34.	अनुराध	इमादपुर	अनुराध
35.	Nimani Pandey	IMADPUR	Nimani Pandey
36.	Rajesh Pandey	VILL+PO-Imadpur	P. Pandey
37.	सुखीशु कुंज पांडे	ग्राम + पो + थाना - इमादपुर	Sudhaskh k. Pandey
38.	Tinku Pandey	VILL + P.O + P.S - Imadpur	Tinku
39.	अनुराध	इमादपुर	अनुराध
40.	अनुराध	इमादपुर	अनुराध

Annexure –IV
Terms of Reference (ToR)

File No.SIA/1(a)/2090/2022
Government of India
State Level Environment Impact Assessment Authority
Bihar

To,

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

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

Sub. Terms of Reference to the Proposed Sand Mining Project of Area 39.5 Ha at Bhojpur Ghat 40 on Sone River of District-Bhojpur State-Bihar., C/O Shyam Yadav, Kurji More, Sadaquat Ashram, Patna

Dear Sir/Madam,

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

- | | |
|---|--|
| 1. Proposal No.: | SIA/BR/MIN/410937/2022 |
| 2. Name of the Proposal: | Proposed Sand Mining Project of Area 39.5 Ha at Bhojpur Ghat 40 on Sone River of District-Bhojpur 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: | 22 Dec 2022 |

Date : 11-01-2023

Mr. Sudhir Kumar
(Member Secretary)

Office : **2nd Floor, Beltron B**
Phone No : Mobile : **9334575112**
Email id : **seiaa.ms.br@gmail.com**

Note : This is auto tor granted letter.

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

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

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

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

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

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

- 1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
- 2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
- 3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
- 4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the 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)

Location Map 5/2021 Bhojpur Sone Ghat 40(39.5hac)

Write a description for your map.





Location Map 2/2022 Bhojpur Sone Ghat 40(39.5hac)

Write a description for your map

Legend
BHOJ GON-41

Google Earth

© 2022 Google



0.00 km



Location Map 3/2023 Bhojpur Sone Ghat 40(39.5hac)

View a description for your map

Legend

BHOJPUR SON GHT

Google Earth

© 2023 Google

0.30 mi

Annexure –VI
(Letter from DMO, Bhojpur)



जिला खनन कार्यालय, भोजपुर(आरा)

मोबाईल नं०-7549125357

E-mail ID-bhojpurmining@gmail.com

पत्रांक- 3410

दिनांक- 03/08/2023

प्रेषक,

खनिज विकास पदाधिकारी,
भोजपुर, आरा।

प्रेषित,

Vimal Kumar,
S/o-Shyam Sundar Yadav,
Add-Kurji, PO-Kurji More,
PS-Digha, Dist-Patna-800010
Mob-9334575112, email-vimal9334575@gmail.com

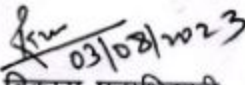
विषय:- भोजपुर जिलान्तर्गत बालूघाट/बालूखण्ड BHOJ SON-40, रकवा-39.5 हे. के क्षेत्र पर पूर्व से संचालित बालूघाट का Overlapping की स्थिति एवं Overlapped क्षेत्र से खनन/प्रेषण की विवरणी उपलब्ध कराने के संबंध में।

प्रसंग:- आपका आवेदन पत्रांक-शून्य, दिनांक-11.07.2023

महाशय,

उपर्युक्त विषयक आपका पत्रांक-शून्य, दिनांक-11.07.2023 के क्रम में आपको राज्य पर्यावरण सभाघाट निर्धारण प्राधिकार (SEIAA, Bihar) द्वारा निर्गत TOR के Additional Specific Condition No-02 के आलोक में सूचित किया जाता है कि बालूघाट/बालूखण्ड BHOJ SON-40 में पूर्व से कोई बालूघाट Overlapped नहीं है।

विश्वासभाजन


03/08/2023
खनिज विकास पदाधिकारी,
भोजपुर, आरा।



Legend

-  PROPOSED GHAT
-  OLD GHAT

PROPOSED GHAT AREA: 39.5 Ha.
OVERLAPED AREA: 0 Ha.

PROJECT: BHOJPUR SONE 40
SAND GHAT
AREA: 39.5 HA.
RIVER: SONE

Annexure –VII
(Monitoring reports)



TEST REPORT

TEST REPORT NO : ETS7749/02/2023

DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

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

Date of Sampling : 10-02-2023

Analysis Start Date : 13-02-2023

Analysis End Date : 16-02-2023

Sample ID No : ETS/SL-7749

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : DHARAMPUR

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	---	7.72	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	537.4	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	174.1	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	263.1	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	129.3	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	85.6	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	27.69	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.24	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.35	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.14	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

Page 1 of 2

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SHRADDHA GUPTA

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

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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.

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Lab In-charge

TEST REPORT

TEST REPORT NO : ETS7749/02/2023

DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	17.30	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	0.32	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	675.7	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

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

TEST REPORT

TEST REPORT NO : ETS/7750/02/2023

DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

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

Date of Sampling : 10-02-2023

Analysis Start Date : 13-02-2023

Analysis End Date : 16-02-2023

Sample ID No : ETS/SL-7750

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : IMADPUR

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	---	7.14	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	368.1	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	181.6	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	210.1	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	79.4	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	45.8	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	26.99	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.12	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.35	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.17	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

Page 1 of 2

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SHRADDHA GUPTA

For Enviro-Tech Services
AUTHORIZED SIGNATORY
Lab In-charge

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

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TEST REPORT

TEST REPORT NO : ETS/7750/02/2023

DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	20.21	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.35	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	450.8	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

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

TEST REPORT

TEST REPORT NO : ETS/7751/02/2023

DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Date of Sampling : 15-02-2023
Analysis Start Date : 17-02-2023
Analysis End Date : 20-02-2023
Sample ID No : ETS/SL-7751
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : KAMTA PANCHAYAT
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	---	7.43	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	211.9	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	174.3	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	199.6	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	99.9	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	48.8	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	26.70	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.82	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.07	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.18	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

Page 1 of 2

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For Enviro-Tech Services
AUTHORIZED SIGNATORY
Lab In-charge



TEST REPORT

TEST REPORT NO : ETS/7751/02/2023

DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	14.90	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.22	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	372.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

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

CHECKED BY
SHRADDHA GUPTA

Note:-

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For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge



TEST REPORT

TEST REPORT NO : ETS/7752/02/2023

DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

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

Date of Sampling : 20-02-2023

Analysis Start Date : 23-02-2023

Analysis End Date : 26-02-2023

Sample ID No : ETS/SL-7752

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : LAXMANPUR BATH

Sampling Method : ETS/STP/WATER-01

Sampling Quantity : 2.0 +0.5 Lt.

Packing Condition : SEALED

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

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.34	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	343.3	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	131.1	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	172.1	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	88.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	72.9	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	22.34	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	1.55	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.06	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.12	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

Page 1 of 2

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SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

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

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.



TEST REPORT

TEST REPORT NO : ETS/7752/02/2023

DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	17.56	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.14	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	499.2	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

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



For Enviro-Tech Services
Rajesh Kumar Mittal
AUTHORIZED SIGNATORY
Lab in-charge

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

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.



TEST REPORT

TEST REPORT NO : ETS/7753/02/2023

DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Date of Sampling : 20-02-2023
Analysis Start Date : 23-02-2023
Analysis End Date : 26-02-2023
Sample ID No : ETS/SL-000
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : MOAP KHURD
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	---	7.00	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	446.0	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	179.3	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	192.0	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	76.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	44.6	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	18.20	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	2.45	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.25	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.10	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

Page 1 of 2

CHECKED BY
SHRADHA GUPTA

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

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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.

For Enviro Tech Services
AUTHORIZED SIGNATORY
Lab In-charge



TEST REPORT

TEST REPORT NO : ETS/7753/02/2023

DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	20.49	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	0.25	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	524.9	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

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



TEST REPORT

TEST REPORT NO : ETS/7754/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

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

Date of Sampling : 15.02.2023

Analysis Start Date : 17.02.2023

Analysis End Date : 20.02.2023

Sampling Done By : ETS STAFF

Sampling Description : SURFACE WATER

Sampling Location : SONE RIVER (UPSTREAM)

Sampling Method : ETS/STP/WATER-01

Sampling Quantity : 2.0 +0.5 Lt.

Packing Condition : SEALED

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

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.25	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.2	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	545.2	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	232.8	IS:3025 (Pt-23)
7.	Total Hardness (CaCO ₃)	mg/L	344.4	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	119.1	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	69.5	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.04	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	66.05	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	2.70	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.39	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	25.92	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	27.4	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.4	APHA-3111 (B)
21.	Zinc (Zn)	mg/L	0.70	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	753.5	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	17.0	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.72	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.78	APHA-5210
34.	E. Coli	MPN/100ml	140	IS:1622-1981
35.	Total Coliform	MPN/100ml	590	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	260	APHA-9221

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

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 will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to the 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.

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Pushkar Mittal
Lab in-charge

TEST REPORT

TEST REPORT NO : ETS/7755/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

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

Date of Sampling : 14.02.2023

Analysis Start Date : 16.02.2023

Analysis End Date : 19.02.2023

Sampling Done By : ETS STAFF

Sampling Description : SURFACE WATER

Sampling Location : SONE RIVER (DOWNSTREAM)

Sampling Method : ETS/STP/WATER-01

Sampling Quantity : 2.0 +0.5 Lt.

Packing Condition : SEALED

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

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.54	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.1	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	525.6	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	256.5	IS:3025 (Pt-23)
7.	Total Hardness (CaCO ₃)	mg/L	327.7	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	103.1	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	49.7	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.04	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	35.42	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	2.21	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.23	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.20	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111 (B)
19.	Magnesium (Mg)	mg/L	20.4	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.4	APHA-3111 (B)
21.	Zinc (Zn)	mg/L	0.47	APHA-3111 (B)
22.	Cadmium (Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead (Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026 (Pt-57)
25.	Mercury (Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum (mo)	mg/L	<0.05	IS:3025 (Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic (As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	653.4	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	18.8	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	5.09	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.31	APHA-5210
34.	E. Coli	MPN/100ml	240	IS:1622-1981
35.	Total Coliform	MPN/100ml	880	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	450	APHA-9221

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

Note:-

Page 1 of 1

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- No liability is entertained if received after 7 days of issue of test report.
- Original report is valid for invoice value only.
- The sample shall be destroyed after 15 days & Biological & Physicochemical sample shall be destroyed immediately after issue of test report.
- This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of our laboratory.

For Enviro Tech Services

AUTHORIZED SIGNATORY
Shikhar Mittal
Lab In-charge

TEST REPORT

TEST REPORT NO : ETS/7756/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

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

Date of Sampling : 15.02.2023

Analysis Start Date : 17.02.2023

Analysis End Date : 20.02.2023

Sampling Done By : ETS STAFF

Sampling Description : SURFACE WATER

Sampling Location : SW-3POND

Sampling Method : ETS/STP/WATER-01

Sampling Quantity : 2.0 +0.5 LT.

Packing Condition : SEALED

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

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.37	IS:3025 (Pt-11)
4.	Turbidity	NTU	16.1	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	521.0	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	187.5	IS:3025 (Pt-23)
7.	Total Hardness (CaCO ₃)	mg/L	253.5	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	78.3	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	53.1	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.04	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	69.31	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	3.31	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.39	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.20	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111 (B)
19.	Magnesium (Mg)	mg/L	28.6	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.4	APHA-3111 (B)
21.	Zinc (Zn)	mg/L	0.53	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	729.0	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	20.0	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	5.18	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	3.92	APHA-5210
34.	E. Coli	MPN/100ml	470	IS:1622-1981
35.	Total Coliform	MPN/100ml	1520	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	860	APHA-9221

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

Note:-

Page 1 of 1

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2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. On receipt of the sample, the laboratory will issue a receipt.
5. The sample shall be destroyed after 15 days of receipt of the sample, unless the sample is returned 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

Rishkar Mittal
AUTHORIZED SIGNATORY

TEST REPORT

TEST REPORT NO : ETS/7757/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

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

Date of Sampling : 20.02.2023

Analysis Start Date : 22.02.2023

Analysis End Date : 25.02.2023

Sampling Done By : ETS STAFF

Sampling Description : SURFACE WATER

Sampling Location : SW-4POND

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	---	7.05	IS:3025 (Pt-11)
4.	Turbidity	NTU	18.4	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	416.9	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	158.0	IS:3025 (Pt-23)
7.	Total Hardness (CaCO ₃)	mg/L	125.2	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	79.9	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	38.8	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.04	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	26.02	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	1.13	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.31	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.16	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper (Cu)	mg/L	<0.05	APHA-3111 (B)
19.	Magnesium (Mg)	mg/L	22.4	IS:3025 (Pt-45)
20.	Manganese (Mn)	mg/L	<0.4	APHA-3111 (B)
21.	Zinc (Zn)	mg/L	0.44	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	503.3	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	18.4	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	4.03	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	6.14	APHA-5210
34.	E. Coli	MPN/100ml	340	IS:1622-1981
35.	Total Coliform	MPN/100ml	1150	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	620	APHA-9221

****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 claim is entertained if received after 7 days of issue of test report.

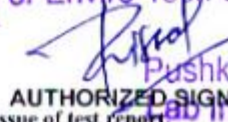
4. CHECKED BY: SHANU KHANNA Invoice value only.

5. The sample shall be destroyed after 15 days of Biological Test. Sample shall be tested 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


Pushkar Mittal
AUTHORIZED SIGNATORY
Lab in-charge

TEST REPORT

TEST REPORT NO : ETS/7758/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : PROJECT SITE
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
S.N.	Monitoring Date	Sample ID	Test Results				
1	07.12.2022	ETS/DI-01	73.1	39.5	12.0	17.5	0.54
2	10.12.2022	ETS/DI-02	72.4	40.2	10.0	19.4	0.61
3	12.12.2022	ETS/DI-03	70.3	41.0	9.1	20.3	0.55
4	15.12.2022	ETS/DI-04	65.2	40.1	9.9	18.9	0.62
5	19.12.2022	ETS/DI-05	70.8	38.9	11.1	21.0	0.53
6	22.12.2022	ETS/DI-06	69.0	39.2	11.6	20.4	0.71
7	26.12.2022	ETS/DI-07	73.6	39.7	10.2	20.1	0.83
8	30.12.2022	ETS/DI-08	70.8	37.1	8.9	18.7	0.78
9	03.01.2023	ETS/DI-09	67.3	36.5	11.2	17.6	0.65
10	06.01.2023	ETS/DI-10	67.7	33.6	11.6	21.0	0.85
11	10.01.2023	ETS/DI-11	69.9	33.8	12.3	21.0	0.91
12	13.01.2023	ETS/DI-12	67.4	35.9	13.1	20.4	0.94
13	17.01.2023	ETS/DI-13	66.4	38.0	11.3	21.2	0.64
14	20.01.2023	ETS/DI-14	68.4	40.2	14.2	22.1	0.62
15	23.01.2023	ETS/DI-15	70.9	40.3	10.0	23.7	0.75
16	27.01.2023	ETS/DI-16	69.3	39.5	9.1	22.7	1.76
17	03.02.2023	ETS/DI-17	67.8	39.9	11.3	24.6	1.11
18	07.02.2023	ETS/DI-18	66.9	41.1	11.0	21.1	1.13
19	10.02.2023	ETS/DI-19	72.1	39.5	8.9	21.8	1.69
20	13.02.2023	ETS/DI-20	66.7	40.9	9.6	21.4	0.82
21	17.02.2023	ETS/DI-21	67.7	39.6	12.5	20.1	1.53
22	20.02.2023	ETS/DI-22	70.1	40.6	11.3	21.8	0.68
23	26.02.2023	ETS/DI-23	69.0	36.9	12.3	20.6	0.84
24	03.03.2023	ETS/DI-24	71.7	35.7	10.4	18.8	1.23
Minimum			65.2	33.6	8.9	17.5	0.53
Maximum			73.6	41.1	14.2	24.6	1.76
Average			69.4	38.7	10.9	20.7	0.89
98 PERCENTILE			73.40	41.04	13.68	24.19	1.73

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

Note:-

1. Test reports and CERTIFICATE OF ANALYSIS are not issued by our laboratory.
2. The results indicated only refer to the test sample as submitted and are not applicable to the entire lot.
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.



For Enviro-Tech Services

 AUTHORIZED SIGNATORY
 Lab In-charge

TEST REPORT

TEST REPORT NO : ETS/7759/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Analysis Start Date : 12.12.2022
Analysis End Date : 06.03.2023
Sampling Done By : ETS STAFF
Sampling Location : DHARAMPUR
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	09.12.2022	ETS/DI-25	58.4	33.7	12.0	21.7	0.77
2	12.12.2022	ETS/DI-26	67.2	34.4	14.8	22.7	1.09
3	16.12.2022	ETS/DI-27	65.0	35.4	13.3	23.9	0.96
4	19.12.2022	ETS/DI-28	69.1	34.3	14.8	24.6	1.09
5	23.12.2022	ETS/DI-29	65.6	32.9	13.2	22.9	1.72
6	26.12.2022	ETS/DI-30	63.7	33.3	14.3	21.8	1.61
7	30.12.2022	ETS/DI-31	68.6	33.9	13.5	24.9	1.64
8	01.01.2023	ETS/DI-32	65.7	30.7	12.6	21.8	1.09
9	05.01.2023	ETS/DI-33	61.9	30.0	13.3	22.6	0.96
10	09.01.2023	ETS/DI-34	62.3	26.7	14.1	23.9	0.89
11	12.01.2023	ETS/DI-35	64.7	26.9	14.5	25.0	1.63
12	15.01.2023	ETS/DI-36	61.9	29.3	13.2	22.9	0.82
13	19.01.2023	ETS/DI-37	60.9	31.9	12.1	26.2	1.55
14	22.01.2023	ETS/DI-38	63.1	34.4	13.5	24.1	0.85
15	28.01.2023	ETS/DI-39	65.7	34.6	13.7	25.0	1.22
16	31.01.2023	ETS/DI-40	64.0	33.8	14.3	25.8	1.61
17	04.02.2023	ETS/DI-41	62.4	34.1	13.3	24.1	0.88
18	08.02.2023	ETS/DI-42	61.5	35.5	16.6	23.1	1.93
19	11.02.2023	ETS/DI-43	67.0	33.8	12.1	21.7	0.84
20	14.02.2023	ETS/DI-44	61.3	35.3	13.6	19.9	1.69
21	19.02.2023	ETS/DI-45	62.3	33.9	14.1	24.2	0.88
22	23.02.2023	ETS/DI-46	64.9	34.8	13.7	22.9	0.84
23	27.02.2023	ETS/DI-47	63.7	30.5	13.3	21.2	1.58
24	04.03.2023	ETS/DI-48	66.6	29.1	12.4	23.9	0.80
Minimum			58.4	26.7	12.0	19.9	0.77
Maximum			69.1	35.5	16.6	26.2	1.93
Average			64.1	32.6	13.6	23.4	1.20
98 PERCENTILE			68.85	35.42	15.73	26.03	1.83

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

Note:-

1. Test reports **SHRADDHA GUPTA** LOGRAM are not issued by our laboratory.
2. The results indicated only refer to the test sample and is not applicable for any other sample.
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.



For Enviro Tech Services

 AUTHORIZED SIGNATORY
 Lab In-charge

TEST REPORT

TEST REPORT NO : ETS/7760/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : DHOKARAHAN
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	07.12.2022	ETS/DI-49	62.7	29.3	10.3	22.4	0.83
2	10.12.2022	ETS/DI-50	63.4	29.9	11.3	23.4	1.21
3	12.12.2022	ETS/DI-51	61.4	30.8	9.6	22.3	1.35
4	15.12.2022	ETS/DI-52	65.1	29.8	9.9	24.6	0.93
5	19.12.2022	ETS/DI-53	61.8	28.8	10.6	23.6	1.83
6	22.12.2022	ETS/DI-54	67.3	29.1	11.4	25.2	1.49
7	26.12.2022	ETS/DI-55	64.6	29.6	11.6	23.4	1.39
8	30.12.2022	ETS/DI-56	61.9	26.9	12.0	25.7	1.11
9	03.01.2023	ETS/DI-57	64.0	36.1	11.6	24.1	1.08
10	06.01.2023	ETS/DI-58	58.8	32.9	11.4	22.4	0.69
11	10.01.2023	ETS/DI-59	60.9	30.8	12.0	23.4	1.53
12	13.01.2023	ETS/DI-60	58.5	25.7	14.4	24.7	1.15
13	17.01.2023	ETS/DI-61	57.5	27.9	11.5	27.8	1.77
14	20.01.2023	ETS/DI-62	59.5	29.9	11.3	23.6	0.83
15	23.01.2023	ETS/DI-63	62.0	30.1	8.2	24.9	1.35
16	27.01.2023	ETS/DI-64	60.4	29.4	9.6	25.7	1.01
17	03.02.2023	ETS/DI-65	58.8	29.8	9.3	23.4	1.04
18	07.02.2023	ETS/DI-66	58.0	30.9	10.5	26.1	1.63
19	10.02.2023	ETS/DI-67	63.1	29.4	11.6	24.7	1.35
20	13.02.2023	ETS/DI-68	57.8	30.7	9.5	23.5	0.95
21	17.02.2023	ETS/DI-69	58.8	29.5	10.7	24.9	1.35
22	20.02.2023	ETS/DI-70	61.2	30.3	11.5	25.7	1.66
23	26.02.2023	ETS/DI-71	60.1	26.7	9.7	22.9	1.46
24	03.03.2023	ETS/DI-72	62.8	25.6	11.3	24.6	0.69
Minimum			57.5	25.6	8.2	22.3	0.69
Maximum			67.3	36.1	14.4	27.8	1.83
Average			61.3	29.6	10.9	24.3	1.24
98 PERCENTILE			66.29	34.59	13.31	27.06	1.80

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

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.



TEST REPORT

TEST REPORT NO : ETS/7761/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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

Analysis Start Date : 12.12.2022

Analysis End Date : 06.03.2023

Sampling Done By : ETS STAFF

Sampling Location : IMADPUR

Sampling Method : ETS/STP/AIR-01

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

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS 5182 (Part-2)	IS 5182 (Part-6)	IS 5182 (Part-10)
S.N.	Monitoring Date	Sample ID	Test Results				
1	09.12.2022	ETS/DI-73	75.5	39.0	9.2	18.4	0.73
2	12.12.2022	ETS/DI-74	76.2	39.7	10.2	19.4	0.73
3	16.12.2022	ETS/DI-75	73.9	40.9	12.0	17.7	1.25
4	19.12.2022	ETS/DI-76	75.4	39.7	11.1	18.5	0.93
5	23.12.2022	ETS/DI-77	74.4	38.2	10.5	20.3	0.94
6	26.12.2022	ETS/DI-78	72.2	38.7	11.3	17.7	1.46
7	30.12.2022	ETS/DI-79	77.7	39.3	11.6	16.7	1.22
8	01.01.2023	ETS/DI-80	74.4	35.8	12.0	17.7	1.80
9	05.01.2023	ETS/DI-81	70.2	35.0	11.7	18.5	1.42
10	09.01.2023	ETS/DI-82	70.7	31.2	12.2	19.4	1.98
11	12.01.2023	ETS/DI-83	73.3	31.5	11.3	20.6	0.83
12	15.01.2023	ETS/DI-84	70.3	34.2	12.0	21.4	1.04
13	19.01.2023	ETS/DI-85	69.1	37.1	11.5	22.1	1.66
14	22.01.2023	ETS/DI-86	71.6	39.7	10.6	20.6	0.83
15	28.01.2023	ETS/DI-87	74.5	40.0	9.1	19.6	1.35
16	31.01.2023	ETS/DI-88	72.7	39.1	9.8	18.7	1.88
17	04.02.2023	ETS/DI-89	70.8	39.5	10.4	19.6	1.04
18	08.02.2023	ETS/DI-90	69.8	41.1	11.6	20.4	1.15
19	11.02.2023	ETS/DI-91	76.0	39.1	12.4	21.8	1.25
20	14.02.2023	ETS/DI-92	69.7	40.8	11.0	20.3	1.77
21	19.02.2023	ETS/DI-93	70.7	39.1	9.5	19.6	1.25
22	23.02.2023	ETS/DI-94	73.6	40.3	10.5	18.5	0.66
23	27.02.2023	ETS/DI-95	72.4	35.6	11.1	19.5	1.35
24	04.03.2023	ETS/DI-96	75.6	34.0	11.7	21.2	1.18
Minimum			69.1	31.2	9.1	16.7	0.66
Maximum			77.7	41.1	12.4	22.1	1.98
Average			72.9	37.9	11.0	19.5	1.24
98 PERCENTILE			77.02	41.04	12.33	21.93	1.93

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

For Enviro-Tech Services

Page 1 of 1

Note:-

- Test reports with ETS-LAB HOLOGRAM are not issued by our laboratory.
- The results are for the tested samples and listed applicable parameters.
- No complaint will be entertained if received after 7 days of issue of test report.
- Our liability is limited to invoice value only.
- The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
- 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.



Pushkar Mittal
In-charge
AUTHORIZED SIGNATORY

TEST REPORT

TEST REPORT NO : ETS/7762/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : KAMTA PANCHAYAT
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs. = 100	24 Hrs. = 60	24 Hrs. = 80	24 Hrs. = 80	1 Hrs. = 04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	07.12.2022	ETS/DI-97	69.7	41.1	11.6	20.7	1.03
2	10.12.2022	ETS/DI-98	79.0	41.9	9.3	15.0	0.56
3	12.12.2022	ETS/DI-99	76.5	43.1	11.6	19.7	1.61
4	15.12.2022	ETS/DI-100	81.0	41.8	10.8	22.2	1.03
5	19.12.2022	ETS/DI-101	77.1	40.3	11.6	19.0	0.92
6	22.12.2022	ETS/DI-102	74.9	40.7	11.6	19.9	1.86
7	26.12.2022	ETS/DI-103	80.5	41.4	12.6	21.0	1.60
8	30.12.2022	ETS/DI-104	77.1	37.8	11.9	21.7	1.19
9	03.01.2023	ETS/DI-105	72.9	37.0	12.3	22.0	1.76
10	06.01.2023	ETS/DI-106	73.4	33.3	10.8	21.2	1.80
11	10.01.2023	ETS/DI-107	76.1	33.4	11.6	19.9	1.43
12	13.01.2023	ETS/DI-108	73.0	36.2	12.3	21.0	1.38
13	17.01.2023	ETS/DI-109	71.8	39.1	11.8	21.9	0.72
14	20.01.2023	ETS/DI-110	74.3	41.9	11.7	21.1	0.92
15	23.01.2023	ETS/DI-111	77.2	42.1	12.3	22.0	1.50
16	27.01.2023	ETS/DI-112	75.3	41.2	12.7	22.1	0.72
17	03.02.2023	ETS/DI-113	73.4	41.5	11.8	19.9	1.83
18	07.02.2023	ETS/DI-114	72.5	43.2	12.3	22.6	1.50
19	10.02.2023	ETS/DI-115	78.7	41.2	11.7	25.0	1.61
20	13.02.2023	ETS/DI-116	72.2	42.9	11.6	20.9	0.84
21	17.02.2023	ETS/DI-117	73.4	41.3	10.8	22.0	1.61
22	20.02.2023	ETS/DI-118	76.4	42.4	11.6	22.9	1.74
23	26.02.2023	ETS/DI-119	75.0	37.6	12.3	21.7	1.73
24	03.03.2023	ETS/DI-120	78.3	35.9	13.3	19.9	0.94
Minimum			69.7	33.3	9.3	15.0	0.56
Maximum			81.0	43.2	13.3	25.0	1.86
Average			75.4	39.9	11.7	21.1	1.33
98 PERCENTILE			80.80	43.12	13.02	24.06	1.85

****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 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
Pushkar Mittal
AUTHORIZED SIGNATORY
Lab in Charge

TEST REPORT

TEST REPORT

TEST REPORT NO : ETS/7763/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Analysis Start Date : 12.12.2022
Analysis End Date : 06.03.2023
Sampling Done By : ETS STAFF
Sampling Location : LAXMANPUR BATH
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	09.12.2022	ETS/DI-121	74.7	36.0	10.9	17.9	0.83
2	12.12.2022	ETS/DI-122	75.4	36.8	10.2	17.0	1.06
3	16.12.2022	ETS/DI-123	73.0	37.8	11.0	19.8	1.90
4	19.12.2022	ETS/DI-124	77.4	36.7	11.8	20.6	0.93
5	23.12.2022	ETS/DI-125	73.6	35.4	11.1	21.5	0.60
6	26.12.2022	ETS/DI-126	71.6	35.8	9.2	20.6	0.76
7	30.12.2022	ETS/DI-127	76.8	36.3	10.1	20.0	0.88
8	01.01.2023	ETS/DI-128	73.7	33.2	9.2	18.8	1.23
9	05.01.2023	ETS/DI-129	69.6	32.5	11.9	18.1	1.71
10	09.01.2023	ETS/DI-130	70.1	29.2	11.1	19.7	1.51
11	12.01.2023	ETS/DI-131	72.7	29.4	10.2	18.2	1.02
12	15.01.2023	ETS/DI-132	69.7	31.9	9.5	20.5	1.88
13	19.01.2023	ETS/DI-133	68.7	34.4	10.9	18.9	1.49
14	22.01.2023	ETS/DI-134	71.0	36.8	11.1	19.7	0.86
15	28.01.2023	ETS/DI-135	73.8	36.9	9.2	20.8	1.23
16	31.01.2023	ETS/DI-136	72.0	36.1	9.9	18.0	1.71
17	04.02.2023	ETS/DI-137	70.2	36.5	11.0	18.8	0.95
18	08.02.2023	ETS/DI-138	69.3	37.9	11.9	18.1	1.51
19	11.02.2023	ETS/DI-139	75.2	36.1	12.5	20.0	1.43
20	14.02.2023	ETS/DI-140	69.1	37.7	11.1	17.9	1.14
21	19.02.2023	ETS/DI-141	70.1	36.2	12.1	20.2	1.90
22	23.02.2023	ETS/DI-142	72.8	37.2	11.0	18.9	1.71
23	27.02.2023	ETS/DI-143	71.7	33.0	12.1	18.1	1.05
24	04.03.2023	ETS/DI-144	74.7	31.7	11.2	19.3	1.88
Minimum			68.7	29.2	9.2	17.0	0.60
Maximum			77.4	37.9	12.5	21.5	1.90
Average			72.4	35.1	10.8	19.2	1.30
98 PERCENTILE			77.15	37.85	12.30	21.17	1.90

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

Note:-

1. Test reports generated by 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.



For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

TEST REPORT

TEST REPORT NO : ETS/7764/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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

Analysis Start Date : 10.12.2022

Analysis End Date : 05.03.2023

Sampling Done By : ETS STAFF

Sampling Location : LODIPUR

Sampling Method : ETS/STP/AIR-01

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

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	07.12.2022	ETS/DI-145	60.4	37.0	8.9	16.1	1.76
2	10.12.2022	ETS/DI-146	69.1	37.7	8.3	14.4	1.48
3	12.12.2022	ETS/DI-147	67.0	38.7	9.8	18.5	1.41
4	15.12.2022	ETS/DI-148	70.0	37.6	10.4	19.2	1.48
5	19.12.2022	ETS/DI-149	67.4	36.3	11.3	20.2	0.48
6	22.12.2022	ETS/DI-150	65.6	36.7	9.8	18.8	0.56
7	26.12.2022	ETS/DI-151	70.4	37.3	10.7	19.6	0.71
8	30.12.2022	ETS/DI-152	67.5	34.2	9.8	20.0	0.91
9	03.01.2023	ETS/DI-153	64.0	33.5	10.8	19.5	1.27
10	06.01.2023	ETS/DI-154	64.2	30.4	10.0	17.6	1.48
11	10.01.2023	ETS/DI-155	66.6	30.5	10.2	18.6	1.76
12	13.01.2023	ETS/DI-156	64.0	32.8	9.7	19.6	1.23
13	17.01.2023	ETS/DI-157	63.0	35.4	9.1	20.0	1.48
14	20.01.2023	ETS/DI-158	65.1	37.7	10.0	19.6	0.64
15	23.01.2023	ETS/DI-159	67.6	37.9	9.8	20.0	0.91
16	27.01.2023	ETS/DI-160	65.9	37.1	10.9	16.6	1.27
17	03.02.2023	ETS/DI-161	64.3	37.4	10.9	17.7	0.71
18	07.02.2023	ETS/DI-162	63.5	38.9	9.8	17.1	1.62
19	10.02.2023	ETS/DI-163	68.8	37.1	11.7	17.8	1.06
20	13.02.2023	ETS/DI-164	63.3	38.6	11.6	20.0	0.85
21	17.02.2023	ETS/DI-165	64.2	37.2	10.0	19.6	1.48
22	20.02.2023	ETS/DI-166	66.8	38.1	10.2	16.2	1.27
23	26.02.2023	ETS/DI-167	65.7	34.0	9.8	18.5	1.76
24	03.03.2023	ETS/DI-168	68.5	32.6	9.9	18.8	1.00
Minimum			60.4	30.4	8.3	14.4	0.48
Maximum			70.4	38.9	11.7	20.2	1.76
Average			66.0	36.0	10.2	18.5	1.19
98 PERCENTILE			70.20	38.80	11.68	20.12	1.76

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

Note:-

1. Test reports without ENVIRO-TECH SERVICES 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

AUTHORIZED SIGNATORY

Lab In-charge

TEST REPORT

TEST REPORT NO : ETS/7765/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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

Analysis Start Date : 12.12.2022

Analysis End Date : 06.03.2023

Sampling Done By : ETS STAFF

Sampling Location : MOAP KHURD

Sampling Method : ETS/STP/AIR-01

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

Weather Condition : CLEAR

Test Parameters			Particulate Matter (PM10)	Particulate Matter (PM2.5)	Sulphur Dioxide (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 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl. N.	Monitoring Date	Sample ID	Test Results				
1	09.12.2022	ETS/DI-169	71.5	37.9	8.8	17.1	0.58
2	12.12.2022	ETS/DI-170	70.1	38.6	9.7	18.1	0.51
3	16.12.2022	ETS/DI-171	70.1	39.5	10.7	20.0	0.46
4	19.12.2022	ETS/DI-172	74.0	38.5	9.9	17.4	0.95
5	23.12.2022	ETS/DI-173	74.8	37.2	9.2	16.6	0.68
6	26.12.2022	ETS/DI-174	68.7	37.6	8.0	14.9	1.08
7	30.12.2022	ETS/DI-175	73.5	38.2	8.8	17.3	1.36
8	01.01.2023	ETS/DI-176	70.6	35.2	9.7	13.8	1.16
9	05.01.2023	ETS/DI-177	67.0	34.5	10.7	15.4	1.63
10	09.01.2023	ETS/DI-178	67.3	31.4	11.2	20.8	1.22
11	12.01.2023	ETS/DI-179	69.6	31.5	10.7	17.2	0.41
12	15.01.2023	ETS/DI-180	67.1	33.8	9.9	18.2	1.13
13	19.01.2023	ETS/DI-181	66.0	36.3	8.8	19.0	1.08
14	22.01.2023	ETS/DI-182	68.1	38.6	9.1	20.2	1.63
15	28.01.2023	ETS/DI-183	70.7	38.8	9.7	20.9	1.49
16	31.01.2023	ETS/DI-184	69.0	38.0	8.4	21.6	1.22
17	04.02.2023	ETS/DI-185	67.4	38.3	8.8	20.3	1.51
18	08.02.2023	ETS/DI-186	66.5	39.7	9.9	20.0	1.49
19	11.02.2023	ETS/DI-187	72.0	38.0	10.5	21.6	1.68
20	14.02.2023	ETS/DI-188	66.3	39.4	11.8	21.9	0.54
21	19.02.2023	ETS/DI-189	67.3	38.1	10.4	21.1	1.08
22	23.02.2023	ETS/DI-190	69.9	39.0	10.1	20.1	1.49
23	27.02.2023	ETS/DI-191	68.8	35.0	9.4	19.0	1.63
24	04.03.2023	ETS/DI-192	71.6	33.6	11.2	17.6	1.05
Minimum			66.0	31.4	8.0	13.8	0.41
Maximum			74.8	39.7	11.8	21.9	1.68
Average			69.5	37.0	9.8	18.8	1.13
98 PERCENTILE			74.46	39.63	11.50	21.75	1.65

****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.



CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
LAB IN-CHARGE

TEST REPORT

TEST REPORT NO : ETS/7766/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Date of Monitoring : 18.02.2023
Monitoring Start Date : 18.02.2023
Monitoring End Date : 19.02.2023
Monitoring Done By : ETS STAFF
Monitoring Duration : 24.0 HOURS
Place Of Monitoring : PROJECT SITE
Category Of Area : RESIDENTIAL AREA
Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq : dB (A)	52.5	55
2.	Noise Level Night Time	Leq : dB (A)	40.1	45

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

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

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Format no ETS /LAB/TR-02 Issue No 04 dt 01/02/2019 Rev No 02 dt 01/02/2019

For Enviro-Tech Services
AUTHORIZED SIGNATORY
Lab In-charge

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.



TEST REPORT

TEST REPORT NO : ETS/7767/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

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

Date of Monitoring : 18.02.2023

Monitoring Start Date : 18.02.2023

Monitoring End Date : 19.02.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : DHARAMPUR

Category Of Area : RESIDENTIAL AREA

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.5	55
2.	Noise Level Night Time	Leq :dB (A)	35.2	45

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

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

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Format no ETS /LAB/TR-02 Issue No 04 dt: 01/02/2019 Rev No 02 dt: 01/02/2019

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Dushkar Mittal
Lab In-charge

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.



TEST REPORT

TEST REPORT NO : ETS/7768/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Date of Monitoring : 20.02.2023
Monitoring Start Date : 20.02.2023
Monitoring End Date : 21.02.2023
Monitoring Done By : ETS STAFF
Monitoring Duration : 24.0 HOURS
Place Of Monitoring : DHOKARAHAN
Category Of Area : RESIDENTIAL AREA
Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	46.3	55
2.	Noise Level Night Time	Leq :dB (A)	37.1	45

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

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

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Format no ETS /LAB/TR-02 Issue No 04 dt: 01/02/2019 Rev No 02 dt: 01/02/2019

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

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.

TEST REPORT

TEST REPORT NO : ETS/7769/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Date of Monitoring : 20.02.2023
Monitoring Start Date : 20.02.2023
Monitoring End Date : 21.02.2023
Monitoring Done By : ETS STAFF
Monitoring Duration : 24.0 HOURS
Place Of Monitoring : IMADPUR
Category Of Area : RESIDENTIAL AREA
Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq : dB (A)	50.4	55
2.	Noise Level Night Time	Leq : dB (A)	41.6	45

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

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



For Enviro-Tech Services
[Signature]
AUTHORIZED SIGNATORY
Gurpreet Kaur
Lab In-charge

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.

TEST REPORT

TEST REPORT NO : ETS/7770/07/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

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

Date of Monitoring : 22.02.2023

Monitoring Start Date : 22.02.2023

Monitoring End Date : 23.02.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : KAMTA PANCHAYAT

Category Of Area : RESIDENTIAL AREA

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	45.4	55
2.	Noise Level Night Time	Leq :dB (A)	36.8	45

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

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

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Format no ETS /LAB/TR-02 Issue No 04 dt: 01/02/2019 Rev No 02 dt: 01/02/2019

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

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

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/7771/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

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

Date of Monitoring : 24.02.2023

Monitoring Start Date : 24.02.2023

Monitoring End Date : 25.02.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : LAXMANPUR BATH

Category Of Area : RESIDENTIAL AREA

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	52.6	50
2.	Noise Level Night Time	Leq :dB (A)	34.2	40

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

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

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For Enviro-Tech Services



Format no ETS /LAB/TR-02 Issue No 04 dt 01/02/2019 Rev No 02 dt 01/02/2019

AUTHORIZED SIGNATORY

Pustkar Mittal
Lab In-charge

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.



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/7772/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
BHOJPUR CLUSTER PROJECT
Date of Monitoring : 24.02.2023
Monitoring Start Date : 24.02.2023
Monitoring End Date : 25.02.2023
Monitoring Done By : ETS STAFF
Monitoring Duration : 24.0 HOURS
Place Of Monitoring : LODIPUR
Category Of Area : RESIDENTIAL AREA
Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.5	55
2.	Noise Level Night Time	Leq :dB (A)	35.8	45

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

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

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For Enviro-Tech Services

Pushkar Mittal
AUTHORIZED SIGNATORY

Format no ETS /LAB/TR-02 Issue No 04 dt 01/02/2019 Rev No 02 dt 01/02/2019

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.



TEST REPORT

TEST REPORT NO : ETS/7773/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

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

Date of Monitoring : 24.02.2023

Monitoring Start Date : 24.02.2023

Monitoring End Date : 25.02.2023

Monitoring Done By : ETS STAFF

Monitoring Duration : 24.0 HOURS

Place Of Monitoring : MOAP KHURD

Category Of Area : RESIDENTIAL AREA

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	45.8	55
2.	Noise Level Night Time	Leq :dB (A)	36.2	45

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

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

Page 1 of 1



Format no ETS /LAB/TR-02 Issue No 04 dt 01/02/2019 Rev No 02 dt 01/02/2019

For Enviro-Tech Services

Purshottam Mittal
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.

TEST REPORT

TEST REPORT NO : ETS/7774/02/2023

DATE OF REPORT : 10-03-2023

SOIL SAMPLE ANALYSIS REPORT

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

Date of Sampling : 20-02-2023

Analysis Start Date : 23-02-2023

Analysis End Date : 25-02-2023

Sample ID No : ETS/SL-7774

Sampling Done By : ETS STAFF

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

Sampling Location : NEAR PROJECT SITE

Sampling Quantity : 2 kg.

Packing Condition : SEALED

Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	64.5	IS:2720 (Pt-4)
3.	Silt	%	24.2	IS:2720 (Pt-4)
4.	Clay	%	11.3	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	---	7.41	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.62	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	332.6	IS:14767
8.	Water Holding Capacity(WHC)	%	34.4	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	147.5	APHA-3125B
10.	Calcium (Ca)	mg/kg	1059.4	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	525.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.33	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	176.9	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	40.4	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	249.9	APHA-3125B
16.	Organic Matter	%	1.05	IS : 2720 (P-22)
17.	Organic Carbon	%	1.81	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.33	IS:3025(P-24)
19.	Porosity	%	30.89	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.90	ASTM 9214

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

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results are checked by the tested samples and listed applicable parameters.
3. No complaints are 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 Feb 2024. After this period, the sample will be destroyed.
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/7775/02/2023

DATE OF REPORT : 10-03-2023

SOIL SAMPLE ANALYSIS REPORT

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

Date of Sampling : 20-02-2023

Analysis Start Date : 23-02-2023

Analysis End Date : 25-02-2023

Sample ID No : ETS/SL-7775

Sampling Done By : ETS STAFF

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

Sampling Location : AGRICULTURE LAND DHARAMPUR

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	%	57.5	IS:2720 (Pt-4)
3.	Silt	%	36.2	IS:2720 (Pt-4)
4.	Clay	%	16.3	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	8.09	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	2.14	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	342.3	IS:14767
8.	Water Holding Capacity(WHC)	%	36.3	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	150.2	APHA-3125B
10.	Calcium (Ca)	mg/kg	968.8	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	536.6	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.43	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	138.8	APHA, Pt 4500: (N)
14.	Phosphorus (PO ₄)	mg/kg	49.6	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	248.6	APHA-3125B
16.	Organic Matter	%	1.05	IS : 2720 (P-22)
17.	Organic Carbon	%	1.71	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	2.09	IS:3025(P-24)
19.	Porosity	%	25.99	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.24	ASTM 9214

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



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

2. The results shall be referred to the tested samples and listed applicable parameters.

3. No complaint shall be received after 7 days of issue of test report.

4. Our liability is limited to invoice value only.

5. The sample shall be destroyed 5 days after the test report is issued.

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/7776/02/2023

DATE OF REPORT : 10-03-2023

SOIL SAMPLE ANALYSIS REPORT

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

Date of Sampling : 20-02-2023

Analysis Start Date : 23-02-2023

Analysis End Date : 25-02-2023

Sample ID No : ETS/SL-7776

Sampling Done By : ETS STAFF

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

Sampling Location : AGRICULTURE LAND IMADPUR

Sampling Quantity : 2 kg.

Packing Condition : SEALED

Packed in : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	---	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	67.2	IS:2720 (Pt-4)
3.	Silt	%	18.8	IS:2720 (Pt-4)
4.	Clay	%	14.0	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	--	7.88	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.44	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	332.5	IS:14767
8.	Water Holding Capacity(WHC)	%	39.2	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	170.5	APHA-3125B
10.	Calcium (Ca)	mg/kg	1259.2	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	477.4	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.14	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	177.0	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	52.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	302.1	APHA-3125B
16.	Organic Matter	%	0.86	IS : 2720 (P-22)
17.	Organic Carbon	%	1.64	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.43	IS:3025(P-24)
19.	Porosity	%	23.79	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.79	ASTM 9214

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



Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY

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- Our liability is limited to invoice value only.
- The sample shall be destroyed after 10 days of issue of test report.
- This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.



ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory



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/7777/02/2023

DATE OF REPORT : 10-03-2023

SOIL SAMPLE ANALYSIS REPORT

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

Date of Sampling : 20-02-2023

Analysis Start Date : 23-02-2023

Analysis End Date : 25-02-2023

Sample ID No : ETS/SL-7777

Sampling Done By : ETS STAFF

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

Sampling Location : AGRICULTURE LAND KAMTA PANCHAYAT

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	%	66.1	IS:2720 (Pt-4)
3.	Silt	%	23.5	IS:2720 (Pt-4)
4.	Clay	%	10.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	---	7.67	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.02	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	325.5	IS:14767
8.	Water Holding Capacity(WHC)	%	40.1	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	131.7	APHA-3125B
10.	Calcium (Ca)	mg/kg	1212.1	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	520.5	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.91	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	208.2	APHA, Pt 4500: (N)
14.	Phosphorus (PO ₄)	mg/kg	46.9	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	245.0	APHA-3125B
16.	Organic Matter	%	1.77	IS : 2720 (P-22)
17.	Organic Carbon	%	1.16	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.26	IS:3025(P-24)
19.	Porosity	%	22.59	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.14	ASTM 9214

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

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY

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4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days of issue of test report.
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SHRADDHA GUPTA



ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory



ISO 45001

(A GOVERNMENT APPROVED LAB)

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

TEST REPORT

TEST REPORT NO : ETS/7778/02/2023

DATE OF REPORT : 10-03-2023

SOIL SAMPLE ANALYSIS REPORT

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

Date of Sampling : 20-02-2023

Analysis Start Date : 23-02-2023

Analysis End Date : 25-02-2023

Sample ID No : ETS/SL-7778

Sampling Done By : ETS STAFF

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

Sampling Location : PROJECT SITE

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	%	78.4	IS:2720 (Pt-4)
3.	Silt	%	10.4	IS:2720 (Pt-4)
4.	Clay	%	11.2	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.80	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.37	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	356.1	IS:14767
8.	Water Holding Capacity(WHC)	%	34.5	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	145.2	APHA-3125B
10.	Calcium (Ca)	mg/kg	1172.7	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	564.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.60	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	236.2	APHA, Pt 4500: (N)
14.	Phosphorus (PO ₄)	mg/kg	66.3	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	345.8	APHA-3125B
16.	Organic Matter	%	1.45	IS : 2720 (P-22)
17.	Organic Carbon	%	1.27	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.78	IS:3025(P-24)
19.	Porosity	%	25.40	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.01	ASTM 9214

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

Page 1 of 1

Note:-

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4. Our liability is limited to invoice value only.

5. The sample shall be destroyed after 15 days & through legal permission 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


Form No ETS/LAB/TP-02 Issue No. 05 Date 01/04/2019, Amend No. 04 Date 01/04/2019

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	Bhojpur Sone 40 Sand Ghat
I	Name of the proponent	Mr. Bimal Kumar
ii	Mailing Address	Mr. Bimal Kumar S/o- Shyam Sundar Yadav, Add-Kurji, PO-Kurji More, PS- Digha, Dist-Patna-800010
	E-mail	Vimak9334575@gmail.com
	Telephone	9334575112
	Fax No.	--
b	Objective of the project	Sand Mining
c	Location of mine	
	Village	Mauza- Imadpur
	Tehsil	Tarari
	District	Bhojpur
	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° 12' 1.831"N to 25° 12' 23.965"N	
	Longitude	84° 29' 17.272"E to 84° 29' 56.099" E	
	Survey of India Topo sheet number	G45M7, G45M8, G45M11, G45M12	
	Elevation above Mean Sea Level	75.82 m to 75.35 m	
	Total mining lease area (in ha.)	39.5 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	39.5 Ha.	
f	Others (Private Land)	--	
g	Others (Own Land)	--	
	Total	39.5 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		-	39.5 Ha.	-	--	39.5 Ha.	-	39.5 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.Oth er	Water reservoir	-	--	-	--	--	--	--		--	--	-	-	-
	Rehab. & Rehabilitation by plantation	-	--		--	--	--	--		-	--	-	-	-
	Undisturbed	-	--		--	--		--		--	--	-	-	-
TOTAL		-	39.5 Ha.	-	-	39.5 Ha.	--	39.5 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	Nil	-	-
12.	National / State Highways	SH-81	-	Approx. 1.35 Km towards NW

[* 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	1279800 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)	1279800 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-4735/Kh, dated 26-11-2022 for the period of Five Years	
d	Date of expiry of lease (D /M /Y)	-	
e	Indicate in case of existing mines	-	
i	Date of opening of mine	-	
ii	Production in the last 5 Years	-	
iii	Projected production for the next 6 th to 10 th year	-	
iv	Whether mining was suspended after opening of the mine?	-	
v	If yes, details there of including last production figure and reason for the same.	--	
f	Whether plans & sections provided?	Yes	
13	Type and method of mining operations		
TYPE		METHOD	
Opencast	√	Manual	-
Underground	-	Mechanized	-
Both	-	Semi-mechanized	√
14	Details of ancillary operations for mineral processing		
a	Existing	-	
b	Additional	-	
15	Mine details		
a	Opencast mine		
i	Stripping ratio (mineral in tonnes to over burden in m ³)	-	
ii	Ultimate working depth (in m bgl)	3 m	
iii	Indicate present working depth in case of existing mine (in m bgl)	--	
iv	Thickness of top soil (in m.)	--	
a	Minimum	0.0	
b	Maximum	0	
c	Average	0	
v	Thickness of overburden (in m.)		
a	Minimum	0.0	
b	Maximum	0	
c	Average	--	
vi	Mining Plan		

a	Height and width of the bench in overburden / waste.	0
b	Height & width of the bench in ore body / coal seam.	Height:1 m Width : 1.5m
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	5090
b	After the proposed activity		6422
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 (%)
a	Road	1279800 TPA	100
b	Rail	-	-
c	Conveyors	-	-
d	Rope way	-	-
e	Water ways	-	-

f	Pipeline	-	-	-
g	Others (Specify)	-	-	-
Total		1279800 TPA	100	3.2

21. Baseline Meteorological and Air Quality data

(a) Micro-meteorological data

[Continuous monitoring through autographic instrument for one full season other than monsoon]

- (i) Wind rose pattern for one full season (16 points of compass i.e. N, NNE, NE, ---) based on 24-hourly data. For coastal area also furnish day-time and night time data. (Given in Chapter 3 of EIA report)
 - Day time
 - Night time
 - 24 – hours period
- (ii) Site specific monitored data (IMD)

(1st Dec 2022 to 4th March 2023)

S.No.	Parameter	Unit	Min	Max	Mean
1	Temperature	^o C	7.8	35.5	23.5
2	Wind Speed	m/s	1.5	12.5	2.73
3	Relative Humidity	%	26	54	39
4	Solar Radiation	w/m ²	5000	5500	5250
5	Rainfall	mm			
6	Wind Direction		North West		

* 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 winterSeason (7thDecember, 2022 to 5th March, 2023)

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

Name of monitoring equipment used			PM _{2.5} (µg/m ³)			PM ₁₀ (µg/m ³)			SO ₂ (µg/m ³)			No _x (µg/m ³)			Pb**		
			Envirotech FPS – APM 5.50			RDS 460 BL			APM 411 attachment with RDS 460 BL			APM 411 attachment with RDS 460 BL			-		
Equipment sensitivity			< 0.5 µg/m ³ from 0.000 mg to 0.100 mg/ m ³			< 0.5 µg/m ³ from 0.000 mg to 0.100 mg/ m ³			< 0.5 µg/m ³ from 0.000 mg to 0.100 mg/ m ³			< 0.5 µg/m ³ from 0.000 mg to 0.100 mg/ m ³			-		
Permissible AAQ standard (CPCB) R,I,S			60 µg/m ³			100 µg/m ³			80 µg/m ³			80 µg/m ³			-		
			60 µg/m ³			100 µg/m ³			80 µg/m ³			80 µg/m ³			-		
			60 µg/m ³			100 µg/m ³			80 µg/m ³			80 µg/m ³			-		
Monitoring Location	No. of Samples Drawn	Category* (R, I, S)	Min	Max	98% tile	Min	Max	98% tile	Min.	Max.	98% tile	Min.	Max.	98% tile	Min	Max	98% tile
AQ1	24		33.6	41.1	41.04	65.2	73.6	73.4	8.9	14.2	13.68	17.5	24.6	24.19	0.53	1.76	1.73
AQ2	24		26.7	35.5	35.42	58.4	69.1	68.85	12	16.6	15.73	19.9	26.2	26.03	0.77	1.93	1.83
AQ3	24		25.6	36.1	34.59	57.5	67.3	66.29	8.2	14.4	13.31	22.3	27.8	27.06	0.69	1.83	1.8
AQ4	24		31.2	41.1	41.04	69.1	77.7	77.02	9.1	12.4	12.33	16.7	22.1	21.93	0.66	1.98	1.93

AQ5	24		33.3	43.2	43.12	69.7	81	80.8	9.3	13.3	13.02	15	25	24.06	0.56	1.86	1.85
AQ6	24		29.2	37.9	37.85	68.7	77.4	77.15	9.2	12.5	12.3	17	21.5	21.17	0.6	1.9	1.9
AQ7	24		30.4	38.9	38.8	60.4	70.4	70.2	8.3	11.7	11.68	14.4	20.2	20.12	0.48	1.76	1.76
AQ8	24		31.4	39.7	39.63	66	74.8	74.46	8	11.8	11.5	13.8	21.9	21.75	0.41	1.68	1.65

*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

- Details of model(s) used for AQIP including grid size, terrain features, and input meteorological data
- Maximum incremental GLC values of pollutants based on prediction exercise

(in µg/m³)

S. No.	Pollutants	Incremental Value	Ambient Air Quality	Resultant Air Quality
1.	SPM	4.653	81.0	85.653
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	0.45	0.45
5. Green Belt & Dust Suppression	6.185	6.185
6. Beneficiation	-	-
7. Washeries	-	-
8. Fire Service	-	-
9. Others (Mining and Allied Activities))	-	-
B. Township		
1. Green Belt	-	-
2. Domestic	-	-
C. Other (specify)		
	-	-
Total	6.635	6.635

26. Source of water supply*

S. No.	Source	m ³ /day
1	River (name)	-
2	Ground water	0.45
3	Mine water (sump / pit)	--
4	Other surface water bodies (water will be tapped from plant supply)	6.185

[*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	-	-	-	0.45		0.45
2	Irrigation	-	-		-		-
3	Industry	-	-		-		-
4	Mining	-	-	-	-		-
5	Others (Dust suppression+ Green belt)	-	-	6.185		6.185	-
Total		--	--	6.185	0.45	6.185	0.45

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 metersupstream 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 ChapterIII	
34	Solid Waste-	6.75Kg/day	

a		Top soil and Solid waste quantity and quality		
Name (Lump/fines/slurry/ Sludge/others)		Composition	Quantity (cum)	Method of disposal
Mining activity*				
a. Top Soil			--	--
b. Over burden			--	--
c. Others (20% intercalated waste)			--	--
Effluent Treatment Plant (sludge)			--	--
Total			--	--
[* Annex layout plan indicating the dump sites.]				
b (i)	Does waste (s) contain any hazardous/toxic substance/radioactive materials or heavy metals?		No	
(ii)	If yes, whether details and precautionary measures provided?		NA	
c	Recovery and recycling possibilities.		NA	
d	Possible user(s) of the solid waste.		NA	
e (i)	Is the solid waste suitable for backfilling?		NA	
(ii)	If yes, when do you propose to start backfilling?		NA	
Solid waste (s)	Already accumulated (A)	To be generated (B)	% of A & B to be backfilled	
			A	B
Over burden		--	--	
Others (20% intercalated waste)		--	-	-
Land reclamation Plan			Not Applicable	
f	In case waste is to be dumped on the ground, indicate		--	
i	Associated environmental problems			
ii	Number & type of waste dumps			
	No. of external dumps		Nil	
	Max. projected height of dumps (in m)		--	
	No. of terraces and height of each stage			
	Overall slope of the dump (degree)		--	
	Proposed reclamation measures		NA	
iii	Section of the waste dump in relation to the adjacent ground profile attached		NA	
35	Fuel / Energy requirements* [*To be furnished for mines having ML area n than 25 ha. or captive power generation of		Not Applicable	

	500KVA and above]				
a	Total power requirement				(in MW)
S. No.		Mine Site	Township	Others (specify)	Total
1	Present				
2	Proposed / additional				
Total					
b	Source of power				(in MW)
S. No.		SEB/Grid*	Captive power plant	DG Sets	
1	Present				
2	Proposed / additional				
Total					
[* Annex a copy of the sanction letter from the concerned authority]					
c	Details of fuels				
S.No	Fuel	Daily Consumption (TPD)		Calorific value (Kcals/kg)	% Ash % Sulphur
		Existing	Proposed		
1	HSD				
2	LSHS				
3	Other (specify)				
36	Storage of inflammable / explosive materials				Not Applicable
S. No.	Name	Number of Storages	Consumption (in TPD)	Maximum Quantity at any point of time	
1	Fuels				
2	Explosives				
37	Human Settlement				
		Core Zone		Buffer Zone	
Population*		-		Details given in Chapter III	
No. of villages		-			
Number of households village-wise		-			
[* As per 2001 census record or actual survey]					
38.	Rehabilitation & Resettlement (R&R) Plan* [*Provide a comprehensive rehabilitation plan, if more than 1000 people are likely to be displaced, other-wise a summary plan]				Not Applicable
a	Villages falling within the study area				
		Villages			
		Number	Name		
Core zone					
500 m from the blasting site (s)					

Buffer zone					
Township site					
b	Details of village(s) in the core zone				
S. No.	Village name	Population*		Average Annual Income	
		Tribal	Others		
1					
[*As per 2001 census / actual survey]					
c	Population to be displaced and / or Land Oustees				
Name of village(s) falling within		Number of oustees			
		Land (only)	Homestead (only)	Land and Homestead (both)	
<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		-	39.5 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. 1320.3 / lakh - (including auction cost).	

46. Cost of environmental protection measures (in Lakh)

Sl. No	Description	Capital Cost (lakh)		Recurring Cost (lakh)
1	Pollution Control & Dust Suppression	Nil		4.0
2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Noise Pollution iv) Soil Pollution	--		2.0
3	Plantation and salary for one gardener (part time basis).	1.18		1.0
4.	Haul road Maintenance Cost	1.25		1.44
5.	Occupational Health and Safety of the workers	1.0		3.0
6.	CER Budget (PH Commitment)			
	Green Belt	Plantation of 1000 nos of Shady and fruitful trees (Barhar, Neem, Peepal, Banyan, Neem, Jamun, Mango etc.) in village Imadpur, Bhojpur	3.0	7.5

	Water Problem	Provision of drinking water in village Imadpur	2.0	
	School Infrastructure	Installation of Solar Lights in Imadpur 10 nos. of Solar Lights @ Rs. 25000/- each	2.5	-
Grand Total			10.93	11.44

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

S. No.	Activities recommended for communities level services	Tentative cost (Lakh Rs)
1	Awareness campaigns regarding health issues in the nearby villages.	1.0
2	Provide free health checkups & medicines to the nearby villagers of the project site.	2.0
3	Assistance to set up a temporary health center during the lease tenure.	1.0

48. Public Hearing

a	Date of Advertisement	12.05.2023
b	Newspapers in which the advertisement appeared	Hindustan, Son Varsha Vani, Navbihar Times, Hindustan Times, The Times of India
c	Date of public hearing (DD/MM/YYYY)	19.06.2023
d	Public Hearing Panel chaired by & members present	➤ Additional Collector Bhojpur Shree Manoj Kumar Jha (Nominated by District Collector-Bhojpur) ➤ Shree Ahish Kumar Gupta, Regional Officer, BSPCB, Patna
e	No. of people attended the public hearing meeting and number of people from the lease area.	Around 40

f	Summary/details of public hearing in tabular form Given in chapter 7 of the EIA report.		
49	Whether the following approvals* (wherever	YES	NO
a	Site clearance from MoEF	-	√
b	Consent for Establishment' from the State Pollution Control Board	-	√
c	NOC from Atomic Mineral Division	-	√
d	Mining plan approval from IBM /Ministry of Coal	√	-
e	In case of existing mines , mining scheme approval from IBM	-	√
f	Forestry clearance under FCA, 1980	-	√
g	NOC from Chief Controller of Explosives	-	√
h	Commitment regarding availability /pumping of Water from the concerned Authorities	√	-
i	In case of ML area falling in notified areas of the Central Ground Water Authority, NOC from them.	-	√
[* Annex copies of approvals and number them]			
50	Was/is the reany court case relating to the projector related activities? If so, provide	No	

Annexure –X
(DSR letter, Bhojpur)

DISTRICT SURVEY REPORT FOR SAND MINERALS OF BHOJPUR DISTRICT, BIHAR

Government of Bihar

(For Sand)

As per Notification No.S.O.141 (E) New Delhi Dated 15th of January 2016,
S.O.3611 (E) New Delhi Dated 25th of July 2018, Sustainable Sand Mining
Guidelines, 2016 and Enforcement & Monitoring Guidelines for Sand
Mining (EMGSM) January 2020, Issued by Ministry of Environment,
Forest and Climate Change (MoEF&CC)



April, 2022



Prepared in compliance of the interim order passed by the Hon'ble
Supreme Court on 10-11-21 in the case of Civil Appeal No. 3661-
3662/2020, State of Bihar & Others vs. pawan Kumar & Others



469			4			25° 13' 10.740" N	84° 31' 30.745" E
470			5			25° 13' 12.796" N	84° 31' 58.547" E
471			6			25° 13' 12.264" N	84° 32' 10.220" E
472			7			25° 13' 0.224" N	84° 32' 23.704" E
473			8			25° 12' 56.884" N	84° 32' 21.827" E
474			9			25° 12' 53.709" N	84° 32' 3.425" E
475			10			25° 12' 51.675" N	84° 31' 30.947" E
476			11			25° 12' 54.671" N	84° 31' 25.014" E
477			12			25° 12' 56.661" N	84° 31' 17.490" E
479			1			25° 12' 29.106" N	84° 30' 12.702" E
480			2			25° 12' 35.068" N	84° 30' 0.783" E
481			3			25° 12' 48.833" N	84° 30' 28.362" E
482			4			25° 12' 59.204" N	84° 30' 50.317" E
483			5			25° 12' 56.116" N	84° 30' 52.146" E
484			6	BHOJ SON 39	24.5	25° 12' 47.839" N	84° 30' 50.490" E
485			7			25° 12' 50.183" N	84° 30' 46.970" E
486			8			25° 12' 52.511" N	84° 30' 39.040" E
487			9			25° 12' 47.889" N	84° 30' 30.250" E
488			10			25° 12' 30.299" N	84° 30' 13.817" E
490			1			25° 12' 1.831" N	84° 29' 29.000" E
491			2			25° 12' 14.161" N	84° 29' 17.272" E
492			3			25° 12' 23.965" N	84° 29' 38.020" E
493			4	BHOJ SON 40	39.5	25° 12' 23.99" N	84° 29' 46.30" E
494			5			25° 12' 16.759" N	84° 29' 56.099" E
495			6			25° 12' 13.537" N	84° 29' 51.478" E
496			7			25° 12' 2.432" N	84° 29' 30.154" E
498			1			25° 11' 15.387" N	84° 29' 39.395" E
499			2	BHOJ SON 41	98	25° 11' 16.668" N	84° 29' 38.174" E
500			3			25° 11' 17.516" N	84° 29' 37.365" E