

ANNEXURE I
Copy of LoI

समाहरणालय, अरवल।



वर्षा सिंह, मा० प्र० से०
जिला पदाधिकारी, अरवल

☎ :- 06337-228994 (O)
:- 06337-228985 (R)
:- 06337-228988 (F)
:- 091-9473191476

E-mail :- dm-arwal.bih@nic.in

खनन शाखा

पत्रांक 562 / खनन, अरवल,

दिनांक 07/06/2024

प्रेषित,

सारण ऐल्कहॉल प्रा० लि०,
मैनिजिंग प्रबंधक :- अमरेन्द्र तिवारी
पिता-श्री रामेश्वर तिवारी,
पता-डिस्टिलरी रोड, गिलन पाड़ा,
पोस्ट-दुमका, जिला-दुमका-814101,

विषय :- अरवल जिलान्तर्गत सोन नदी के बालूघाट अरवल सोन-03 (असलामपुर दुल्लाह-01) की आगामी पांच वर्षों के लिए बंदोबस्ती हेतु दिनांक 06.05.2024 को सम्पन्न ई-नीलामी में उच्चतम डाकवक्ता घोषित होने के उपरांत सैद्धांतिक स्वीकृत्यादेश निर्गत करने के संबंध में।

उपर्युक्त विषयक अरवल जिलान्तर्गत सोन नदी के बालूघाट अरवल सोन-03 (असलामपुर दुल्लाह-01) की आगामी पांच वर्षों के लिए बंदोबस्ती हेतु दिनांक 06.05.2024 को सम्पन्न ई-नीलामी में आपके द्वारा मो०-6,21,00,000.00 (छः करोड़ एकीस लाख) के विरुद्ध उच्चतम डाक की राशि मो०-7,45,20,000.00 (सात करोड़ पैतालिस लाख बीस हजार) रुपया बोली के उपरांत उच्चतम डाकवक्ता घोषित हुए हैं। निविदा दस्तावेज की कंडिका-20(i) के आलोक में आपके द्वारा नीलामी राशि के 25 प्रतिशत (अग्रधन राशि समायोजनोपरांत) शेष प्रतिभूति राशि मो०-31,05,000.00 (एकतीस लाख पांच हजार) रुपया के भूगतान के साक्ष्य दिनांक 13.05.2024 को कार्यालय में प्रस्तुत किया गया है।

निविदा दस्तावेज की कंडिका-20(i)(ii)(iii)(iv)(v) के आलोक में जिलान्तर्गत सोन नदी के अरवल सोन-03 (असलामपुर दुल्लाह-01) बालूघाट का सैद्धांतिक स्वीकृत्यादेश निम्न शर्तों एवं बंधेज के साथ दिया जाता है:-

1. सोन नदी के अरवल सोन-03 (असलामपुर दुल्लाह-01) बालूघाट का संक्षिप्त विवरणी निम्नवत है:-

क्र०स०	नदी का नाम	रकवा(हे० में)	Geo-Coordinates	
1	सोन नदी (Perennial)	23.00	25°16'10.83"N	84°39'53.77"E
			25°16'21.44"N	84°39'39.03"E
			25°16'15.22"N	84°40'2.19"E
			25°16'19.14"N	84°40'7.84"E
			25°16'29.88"N	84°39'43.04"E
1	वन क्षेत्र से दूरी		लागू नहीं	
2	सुरक्षित क्षेत्र/वन अभ्यारण्य/पक्षी अभ्यारण्य/जीव अभ्यारण्य क्षेत्र से दूरी		लागू नहीं	
3	बालूघाट से 500 मीटर के अंदर खनन पट्टा क्षेत्र की दूरी		हाँ (अरवल सोन-02(सोनवर्षा)-रकवा 65.90 हे०) (अरवल सोन-03(असलामपुर दुल्लाह-02) रकवा 23.0 हे०)	
4	पुरातात्विक स्थल की दूरी		लागू नहीं	
5	खनन योग्य मात्रा		414000 घनमीटर	
6	थाना/खाता/खेसरा संख्या		10/19/27 (अंश)	

2. भुगतान की शर्तें:-

- नीलामी-राशि केवल प्रथम वर्ष के लिए बंदोबस्ती की राशि मानी जाएगी। दूसरे वर्ष और उसके बाद की बंदोबस्ती की राशि गत वर्ष की बंदोबस्ती राशि के 120 प्रतिशत के बराबर होगी।
- प्रतिभूति जमा के अतिरिक्त बंदोबस्तधारी निम्नलिखित समय सारणी/भुगतान अनुसूची के अनुसार बंदोबस्ती की राशि का भुगतान करेगा :-

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%)	03 महीना पूरा होने से पहले।
तृतीय किस्त(25%)	06 महीना पूरा होने से पहले।

प्रत्येक समानुदान वर्ष में बंदोबस्तधारी द्वारा पहली किस्त के भुगतान के समय दूसरी और तीसरी किस्तों की राशि के लिए पोस्टडेटेड चेक संबंधित समाहर्ता, अरवल के समक्ष जमा की जायेगी। यदि किस्तों के भुगतान करने में बंदोबस्तधारी असफल होता है तो आगे ई-चालान सिस्टम द्वारा बंद कर दिया जाएगा और केवल अग्रिम भुगतान कर दिये जाने के बाद ही खोला जाएगा एवं इसके लिए किसी तरह के क्षतिपूर्ति का कोई दावा मान्य नहीं होगा।

- GST का भुगतान :-**बंदोबस्तधारी को जी0एस0टी0 के रूप में प्रचलित दर के अनुसार राशि वाणिज्य कर विभाग को भुगतान करना होगा। जिला खनन कार्यालय अरवल में जी0एस0टी0 भुगतान का प्रमाण प्रत्येक किस्त के साथ देना होगा।
- आयकर/अन्य करों का भुगतान:-**बंदोबस्तधारी को 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, अरवल द्वारा यह राशि आयकर मद में जमा करा दी जायेगी।
- जिला खनिज फाउंडेशन:-**Bihar Mineral District Foundation Rules, 2018 के अनुसार बंदोबस्ती राशि की 2 प्रतिशत राशि जिला खनिज फाउंडेशन को जिला खनन पदाधिकारी, अरवल के पदनाम से भुगतान बैंक ड्राफ्ट के माध्यम अनुसार करना होगा।
- वैधानिक अनापत्ति:-**बालूघाट संचालन हेतु आवश्यक समस्त वैधानिक अनापत्ति/अनुमति (जैसे:- खनन योजना, पर्यावरणीय स्वीकृति, जल एवं वायु सहमति आदि सफल डाकवक्ता द्वारा प्राप्त की जाएगी। वैधानिक अनापत्ति/अनुमति प्राप्त करने के पश्चात् ही बालू खनन प्रारंभ किया जा सकेगा। वैधानिक अनापत्ति/अनुमति के बिना अथवा वैधानिक अनापत्ति/अनुमति में अनुज्ञात मात्रा से अधिक मात्रा या निर्धारित क्षेत्र से बाहर खनन किए जाने की दशा में सुसंगत नियमों के अनुसार संबंधित सफल डाकवक्ता/बंदोबस्तधारी पर कार्रवाई की जाएगी। वैधानिक अनापत्ति/अनुमति निम्नानुसार है:-
 - 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, जिसको निर्धारित फीस/खर्च भी बंदोबस्तधारी को ही वहन करना होगा। सफल डाकवक्ता/बंदोबस्तधारी खनन योजना के अनुसार खनन करना सुनिश्चित करेंगे।
 - 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।
 - जल एवं वायु सहमति:-**पर्यावरणीय स्वीकृति प्राप्त करने के पश्चात् 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। यदि 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 राशि जप्त कर पुनः निलामी की कार्रवाई की जाएगी।
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/बंदोबस्ती 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 यथा विहित अपेक्षित प्रतिभूति राशि जमा 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/बंदोबस्तधारी द्वारा बंदोबस्ती प्रत्यर्पण/कारोबार छोड़ने का विकल्प बिहार खनिज (समानुदान, अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली 2019 के नियम 50 के अनुरूप किया जा सकेगा।
9. **सामान्य शर्तें :-**
- (i) बंदोबस्तधारी नदी तट से बालू प्रेषण के बिन्दु पर एक साईनबोर्ड लगाएगा 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।
- (ii) 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।
- (iii) 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 बंदोबस्तधारी द्वारा स्वयं अपने खर्च से किया जाएगा।
- (iv) बालूघाट की सुरक्षा की जिम्मेदारी सफल डाकवक्ता/बंदोबस्तधारी की होगी।
- (v) सफल डाकवक्ता/बंदोबस्तधारी बंदोबस्त क्षेत्र के भीतर किसी अवैध खनन के लिए जिम्मेवार होंगे और पायी गई किसी भी शिकायत पर गंभीरता से विचार किया जाएगा तथा बंदोबस्तधारी के विरुद्ध आपराधिक मामला दायर किया जाएगा।
- (vi) सफल डाकवक्ता/बंदोबस्तधारी समाहर्ता द्वारा बालूघाटों का संचालन के संबंध में लोकहित में जारी निर्बंधनों और शर्तों तथा निदेशों का पालन करेगा।
- (vii) यथोक्त शर्तों बंधेजों एवं निर्बंधनों का पालन नहीं करने पर कारण पूछा निर्गत कर बंदोबस्ती रद्द करने की कार्रवाई की जा सकेगी।
- (viii) 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 बंदोबस्तधारी द्वारा बकाए का भुगतान करने में असफल रहने की दशा में राशि वसूली की कार्रवाई के साथ-साथ बंदोबस्ती रद्द करने की भी कार्रवाई की जाएगी।
- (ix) 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 संबंधित जिला खनन कार्यालय का होगा। बालूघाटों का सीमांकन एवं नियमानुसार निर्धारित आयाम/विशिष्टियों का सीमा स्तंभका अधिष्ठापन GPS Co-ordinate के अनुसार बालू बंदोबस्तधारी को कराना होगा तथा खनन के क्रम में संधारित कराना बंदोबस्तधारी की जवाबदेही होगी, जिसे RQP/ अंचलाधिकारी की उपस्थिति में प्रमाणित कराकर खनन कार्य

अनुसार बालू बंदोबस्तधारी को कराना होगा तथा खनन के क्रम में संधारित कराना बंदोबस्तधारी की जवाबदेही होगी, जिसे RQP/ अंचलाधिकारी की उपस्थिति में प्रमाणित कराकर खनन कार्य कराना होगा। बालूघाटों के निर्धारित क्षेत्र का Reduced Level (RL)/Pre-Level (PL) एवं Satellite images मानसून के पूर्व एवं बाद का समर्पित करना होगा।

- (x) बालूघाट से लिंक रोड और बालूघाट के बीच कोई प्राकृतिक जल मार्ग सिंचाई नहर पड़ती हो तो खनिज समानुदान धारक जल संसाधन विभाग की पूर्व अनुमति से बालू के परिवहन के लिए अस्थायी संरचनाएँ खड़ा कर सकेगा। पूर्व अनुमति के लिए ऐसे आवेदन जल संसाधन विभाग के संबंधित मुख्य अभियंता के समक्ष दिए जाएंगे।
- (xi) 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।
- (xii) 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।
- (xiii) 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।
- (xiv) सफल डाकवक्ता/बंदोबस्तीधारी को इलेक्ट्रॉनिक माध्यम से भेजी गयी कोई भी सूचना/निदेश/आदेश इत्यादि IT-Act के तहत स्वीकार्य साक्ष्य के रूप में माना जाएगा।

8/06/2024
समाहर्ता,
अरवल।

ANNEXURE II
Mine Plan Approval Letter

बिहार सरकार,
खान एवं भूतत्व विभाग।

पत्रांक--2824...../एम0, पटना, दिनांक-16/07/2024
प्रेषक,

सुरेश प्रसाद,
विशेष कार्य पदाधिकारी।

सेवा में,

ई0 मेल

सारण ऐल्कहॉल प्रा0 लि0,
मैनिजिंग प्रबंधक :- अमरेन्द्र तिवारी
पिता-श्री रामेश्वर तिवारी,
पता-डिस्टिलरी रोड, गिलन पाड़ा,
पोस्ट-दुमका, जिला-दुमका-814101

विषय:- अरवल जिलान्तर्गत सोन-03 (असलामपुर दुल्लाह-01) 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 अरवल जिलान्तर्गत सोन-03 (असलामपुर दुल्लाह-01) 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 गई है:-

1. उक्त खनन योजना केन्द्र सरकार/राज्य सरकार द्वारा विनियमित अन्य सभी अधिनियम/नियमावली में वर्णित प्रावधानों को तथा किसी न्यायालय/अन्य न्यायिक संस्था द्वारा पारित किये गये न्यायादेश को बिना प्रभावित किये अनुमोदित किया जा सकता है।
2. उक्त खनन योजना का अनुमोदन खान एवं खनिज (विकास एवं विनियमन) अधिनियम, 1957 (यथा संशोधित), बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 के नियम-17, वन संरक्षण अधिनियम, 1980, पर्यावरण सुरक्षा अधिनियम, 1986, श्रम संबंधी नियम, SSMMG 2016, 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. खनन् कार्य के दौरान घाट संचालनकर्ता द्वारा पर्यावरण संबंधी मानकों का नियमित रूप से अनुश्रवण करने की व्यवस्था करनी होगी। खनन् कार्य के दौरान नदियों के प्राकृतिक बहाव आदि में किसी भी तरह का व्यवधान/रूकावट/बदलाव करना पूर्ण रूप से प्रतिबंधित होगा।
9. बालूघाट में Secondary Loading की व्यवस्था इस प्रकार सुनिश्चित की जाएगी ताकि गीला बालू का परिवहन नहीं हों।
10. यद्यपि खनन योजना में Semi-mechanised mining को प्राथमिकता दी गयी है तथापि Manual Mining पर कोई प्रतिबंध नहीं रखा जाएगा एवं स्थानीय व्यक्तियों को नियोजन देने के दृष्टिकोण से Manual Mining को उचित अवसर प्रदान करना होगा।
11. सफल डाकवक्ता/बंदोबस्तधारी द्वारा खान एवं खनिज (विकास एवं विनियमन) अधिनियम, 1957, बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) तथा बिहार बालू खनन नीति, 2019 के प्रावधानों का अनिवार्य रूप से पालन किया जायेगा।
12. सफल डाकवक्ता/बंदोबस्तधारी को पर्यावरण सुरक्षा हेतु सभी उपाय करने होंगे तथा नियमित रूप से जल/वायु की गुणवत्ता की जाँच/अनुश्रवण की व्यवस्था सुनिश्चित करनी होगी।
13. सफल डाकवक्ता/बंदोबस्तधारी को उत्पादन/प्रेषण का आँकड़ा एवं पंजी संधारित करना अनिवार्य होगा जिसे नियमित रूप से अद्यतन किया जाएगा।
14. संचालन करने वाले घाटों की सीमांकन कराना, RL/PL प्राप्त करना एवं उसे खनन के क्रम में संधारित कराना सफल डाकवक्ता/बंदोबस्तधारी की जवाबदेही होगी, जिसे RQP/अंचलाधिकारी की उपस्थिति में प्रमाणित करवाकर खनन कार्य करना होगा।
15. बिहार खनिज (समानुदान अवैध खनन, परिवहन एवं भंडारण निवारण) नियमावली, 2019 (यथा संशोधित 2021) में वर्णित प्रतिबंधित क्षेत्रों में किसी प्रकार का खनन् कार्य वर्जित होगा।
16. बालूघाटों से बालू का निष्कासन एवं प्रेषण आबादी से सटे ग्रामीण सड़क को छोड़कर अलग मार्ग से करना होगा।
17. खनन योजना की एक-एक प्रति, जो संबंधित RQP द्वारा प्रत्येक पृष्ठ पर हस्ताक्षरित होगी, निदेशक, खान एवं भूतत्व विभाग के कार्यालय के अतिरिक्त समाहर्ता, अरवल के गोपनीय कोषांग, उपनिदेशक, मगध अंचल, गया 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 अरवल जिलान्तर्गत सोन-03 (असलामपुर दुल्लाह-01) से संबंधित समर्पित खनन योजना के अन्तर्गत ही बालू उत्खनन् कार्य सुनिश्चित कराया जाय।

विश्वासभाजन



(सुरेश प्रसाद)

विशेष कार्य पदाधिकारी



✓

Annexure –III
(Public Hearing Proceedings)



(स्पीड पोस्ट)

बिहार राज्य प्रदूषण नियंत्रण पर्षद

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

पटना, दिनांक:

पत्रांक:

प्रेषक,

नीरज नारायण, भा0व0से0

सदस्य-सचिव

सेवा में,

सदस्य सचिव,

राज्य पर्यावरण समाघात निर्धारण प्राधिकरण,

बेल्फोन भवन, शास्त्री नगर,

पटना-800023.

विषय: श्री अमरेन्द्र तिवारी, पिता-श्री रामेश्वर तिवारी, पता-डिस्टिलरी रोड, गिलानपारा, पोस्ट- दुमका, जिला-दुमका-814101 द्वारा अरवल सोन नदी बालु घाट-03 (असलमपुर दुल्ला-01), मौजा-असलमपुर दुल्ला, तहसील-अरवल, जिला-अरवल 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 अमरेन्द्र तिवारी, पिता-श्री रामेश्वर तिवारी, पता-डिस्टिलरी रोड, गिलानपारा, पोस्ट- दुमका, जिला-दुमका-814101 द्वारा अरवल सोन नदी बालु घाट-03 (असलमपुर दुल्ला-01), मौजा-असलमपुर दुल्ला, तहसील-अरवल, जिला-अरवल से बालू खनन हेतु प्राप्त आवेदन के आलोक में दिनांक: 03.01.2025 को सम्पन्न लोक सुनवाई का वृत्त, उपस्थिति पंजी एवं संबंधित सी0 डी0 की प्रति संलग्न कर अग्रेतर कार्रवाई हेतु भेजी जा रही है।
अनुलग्नक: यथोपरि।

विश्वासभाजन

ह0/-

(नीरज नारायण)

सदस्य-सचिव

ज्ञापांक :-

पटना, दिनांक :-

प्रतिलिपि:- जिला पदाधिकारी, अरवल को सूचनार्थ एवं आवश्यक कार्रवाई हेतु प्रेषित।

अनुलग्नक: यथोपरि।

ह0/-

(नीरज नारायण)

सदस्य-सचिव

ज्ञापांक :-

पटना, दिनांक :-

प्रतिलिपि:- श्री अमरेन्द्र तिवारी, पिता-श्री रामेश्वर तिवारी, पता-डिस्टिलरी रोड, गिलानपारा, पोस्ट- दुमका, जिला-दुमका-814101 द्वारा अरवल सोन नदी बालु घाट-03(असलमपुर दुल्ला-01), मौजा-असलमपुर दुल्ला, तहसील-अरवल, जिला-अरवल को सूचनार्थ प्रेषित।

अनुलग्नक: यथोपरि।

ह0/-

(नीरज नारायण)

सदस्य-सचिव

ज्ञापांक :- 72.

पटना, दिनांक :- 28.1.25

प्रतिलिपि:- श्री नीरज कुमार, सहायक प्रोग्रामर, बि. रा. प्र. नि. पर्षद, पटना को निदेश है कि दिनांक: 03.01.2025 को की गई लोक सुनवाई का वृत्त, उपस्थिति पंजी एवं संबंधित सी0 डी0 की प्रति पर्षद के वेबसाईट पर डिसप्ले कराया जाय। दिनांक: 03.01.2025 को की गई लोक सुनवाई का वृत्त, उपस्थिति पंजी एवं संबंधित सी0 डी0 की प्रति संलग्न की जा रही है।

अनुलग्नक: यथोपरि।

(नीरज नारायण)

सदस्य-सचिव

लोक सुनवाई का वृत्त।

श्री अमरेन्द्र तिवारी, पिता-श्री रामेश्वर तिवारी, पता-डिस्टिलरी रोड, गिलानपारा, पोस्ट दुमका, जिला दुमका-814101 द्वारा अरवल सोन नदी बालू घाट-03(असलपुर दुल्ला-01), मौजा-असलमपुर दुल्ला, तहसील-अरवल, जिला-अरवल, बिहार के अन्तर्गत बालू खनन परियोजना से संबंधित पर्यावरणीय स्वीकृति के वास्ते अधिसूचना सं०-एस.ओ.1533, दिनांक 14 सितम्बर, 2006 एवं यथा संशोधित के तहत दिनांक 03.01.2025 को पूर्वाह्न 12:00 बजे प्रखण्ड कार्यालय अरवल परिसर के सभाकक्ष, अरवल, जिला-अरवल के प्रांगण में लोक सुनवाई की गयी।

यह लोक सुनवाई पर्यावरण प्रभाव मूल्यांकन अधिसूचना सं०-एस.ओ.1533, दिनांक 14 सितम्बर 2006 एवं यथा संशोधित के तहत पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के द्वारा निर्गत TOR File. No. SIA/BR/MIN/490347/2024, dated 30.07.2024 के आलोक में श्री/श्रीमती सईदा खातुन, अपर समाहर्ता, विभागीय जांच, अरवल (जिला पदाधिकारी, अरवल के प्रतिनिधि) की अध्यक्षता में बिहार राज्य प्रदूषण नियंत्रण पर्षद् द्वारा दिनांक 03.01.2025 को पूर्वाह्न 12:00 बजे प्रखण्ड कार्यालय परिसर के सभाकक्ष, अरवल, जिला-अरवल में लोक-सुनवाई आयोजित की गयी। उपस्थिति पंजी संलग्न (अनुलग्नक-1)

इस लोक-सुनवाई की सूचना बिहार राज्य प्रदूषण नियंत्रण पर्षद् द्वारा दैनिक समाचार पत्रों यथा- दैनिक भास्कर, दैनिक जागरण के माध्यम से दिनांक 28.11.2024 को प्रकाशित की गयी थी (प्रतिलिपि संलग्न)। लोक-सुनवाई के दौरान श्री मनोरंजन कुमार सिंह, क्षेत्रीय पदाधिकारी, बिहार राज्य प्रदूषण नियंत्रण पर्षद्, गया 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।

क्षेत्रीय पदाधिकारी द्वारा अरवल सोन नदी बालू घाट-03 (असलमपुर दुल्ला-01), मौजा-असलमपुर दुल्ला तहसील-अरवल, जिला-अरवल, के लेसी को मंच के समीप आकर अपना परिचय देने के लिए कहा गया। तदनुसार लेसी के द्वारा अपना परिचय लोक सुनवाई में उपस्थित सभी महानुभावों को दिया गया।

अपर समाहर्ता महोदया द्वारा लोकहित में कार्य योजना से संबंधित सुनवाई के उद्देश्य से उपस्थित लोगों को अवगत कराया गया। साथ ही स्थानीय लोगों से पर्यावरण संरक्षण एवं लोकहित के संबंध में सुझाव माँगा गया।

लोक सुनवाई कार्यक्रम की अध्यक्षता कर रहे अपर समाहर्ता की अनुमति से परियोजना प्रस्तावक के पर्यावरणीय सलाहकार श्री नीतीश कुमार ने इकाई की खनन कार्य परियोजना, प्रदूषण नियंत्रण व्यवस्था एवं कॉर्पोरेट की सामाजिक जिम्मेदारी (Corporate Social 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 साथ ही वाहनों पर ओवरलोडिंग नहीं की जायेगी एवं 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। ध्वनी प्रदूषण को नियंत्रित करने हेतु ध्वनी 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 का कार्य किया जायेगा। परियोजना प्रस्तुतिकरण के पश्चात् उपस्थित महानुभावों द्वारा दिए गए सुझाव/मंतव्य निम्नवत है:-

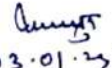
क्रमांक	नाम एवं पता	प्रतिक्रिया/सुझाव
1.	श्री राजेश कुमार सिंह और श्री रामाशंकर, ग्राम-सकरी, जिला-अरवल।	इनके द्वारा प्रश्न पुछा गया कि फसल को धूल-कण से क्षतिपूर्ति न हो उसके लिए क्या उपाय किया जायेगा एवं ग्रामवासीयों को धूल-कण से परेशानी न हो उसके लिए क्या किया जायेगा। इस संबंध में पर्यावरणीय सलाहाकार के द्वारा बताया गया कि बालू परिवहन के दौरान उत्सर्जित होने वाले धूल-कण की रोक-थाम हेतु दिन में तीन बार सड़को पर जल का छिड़काव किया जायेगा। साथ ही बालू से लदे वाहनों के परिवहन के दौरान पूर्ण रूप से वाहनों को तिरपाल से ढक कर परिवहन किया जायेगा। इस प्रकार श्री राजेश कुमार सिंह और श्री रामाशंकर को अपना जवाब प्रस्तुत कर संतुष्ट किया।
2.	श्री बद्री सिंह, ग्राम-अहियारपुर (बड़की), जिला-अरवल श्री विनय कुमार, ग्राम-मदन सिंह का टोला, जिला-अरवल	इनके द्वारा सुझाव दिया गया कि घाट को जल्द चालु किया जाये जिससे की ग्रामीणों को रोजगार प्राप्त हो सके। इस संबंध में पर्यावरणीय सलाहाकार द्वारा बताया गया कि आपके सुझाव पर विचार किया जायेगा। इस प्रकार श्री बद्री सिंह और श्री विनय कुमार को अपना जवाब प्रस्तुत कर संतुष्ट किया।

3.	श्री रविन्द्र राम और श्री रौशन कुमार ग्राम-मदन सिंह का टोला, जिला-अरवल श्री शैलेश कुमार, ग्राम-सकरी, जिला-अरवल	इनके द्वारा ग्रामीणों के रोजगार के संबंध में संबंधित प्रश्न पूछा गया। इस संबंध में पर्यावरणीय सलाहकार द्वारा अश्वासन दिया गया कि ग्रामिणों को प्राथमिकता के आधार पर उनकी योग्यता के अनुसार रोजगार उपलब्ध कराया जायेगा। इस प्रकार श्री रविन्द्र राम, श्री रौशन कुमार एवं श्री शैलेश कुमार को अपना जवाब प्रस्तुत कर संतुष्ट किया।
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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।

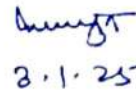
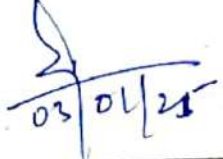
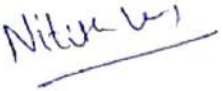
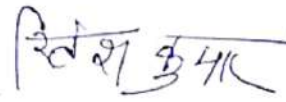
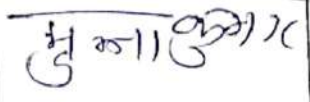
जन-सुनवाई के अंत में उपस्थित जनता के सुझाव को संग्रहित करते हुए सर्वसम्मति से बालूघाट के खनन परियोजना को शीघ्र प्रारंभ करने के लिए सक्षम प्राधिकार को अनुशंसा करने का निर्णय लिया गया। तत्पश्चात् लोक सुनवाई सधन्यवाद समाप्त करने की घोषणा की गयी।


क्षेत्रीय पदाधिकारी
बि.रा.प्र.नि.पर्वद, गया


03.01.25
अपर समाहर्ता
विभागीय जांच
अरवल

उपस्थिति सूची

श्री अमरेन्द्र तिवारी, पिता-श्री रामेश्वर तिवारी, पता-डिस्टिलरी रोड, गिलानपारा, पोस्ट- दुमका, जिला-दुमका-814101 द्वारा अरवल सोन नदी बालु घाट-03(असलमपुर दुल्ला-01), मौजा-असलमपुर दुल्ला, तहसील-अरवल, जिला-अरवल का अरवल जिला में प्रस्तावित बालू खनन परियोजना हेतु पर्यावरणीय स्वीकृति दिनांक: 03.01.2025 को 12:00 बजे अपराह्न में अंचल कार्यालय: अरवल, जिला- अरवल में आयोजित लोक सुनवाई के दौरान उपस्थित महानुभावों की सूची:

क्र०सं०	नाम	पता	हस्ताक्षर
1.	सईदा च्याहून अपर सभाहरी विभागीय औच धावक		 3.1.25
2.	Mamteyano K. Singh	R.O, B.S.R.C. R. Bingra	 3.1.25
3.	Navendu Singh	MDO. Arwal	 03/01/25
4.	Mamteyano K. Singh	R.O. G. V. S. P. U. L. D. Bingra	
5.	Mamteyano K. Singh	Arwal	
6.	Nitish Kumar	पर्यावरणीय सलाहकार पटना	
7.	रिंश कुमार स्व. विनोद सिंह	महत्त विंश का रीम	
8.	मुन्ना कुमार	१/१ 7352122819	

9.	विजय कुमार	मदन सिंह टोला 9910535897	विजय कुमार
10.	गौतम कुमार शर्मा	मदन सिंह टोला 9480012991	Caution Kumar Sharma
11.	रविन्द्र-राम	मदन सिंह टोला 8651060755	Ravindra
12.	सुनील सिंह	मदन सिंह टोला 8651090000	सुनील सिंह
13.	दिपक कुमार	मदन सिंह टोला 9199685318	Deepak Kumar
14.	बंटी कुमार	मदन सिंह टोला 8083858895	बंटी कुमार
15.	मनवीर कुमार	मदन सिंह टोला 6203488073	
16.	पल्लु कुमार	मदन सिंह टोला 8340241098	पल्लु कुमार
17.	रौशन कुमार	मदन सिंह टोला 9142937930	Roshan Kumar
18.	महेन्द्र कुमार	मदन सिंह टोला 9801684016	
19.	विट्ठु कुमार	मदन सिंह टोला 917118103	विट्ठु कुमार

20.	रामचण्डा कुमार	मदन सिंह के लेना 62060 44 257	रामचण्डा कु
21.	हारिदा सिंह	मदन सिंह के लेना	हारिदा सिंह
22.	गोरे लाल	मदन सिंह के लेना	गोरे लाल
23.	जालन कुमार	मदन सिंह के लेना	जालन कुमार
24.	धनदु सिंह	मदन सिंह के लेना 9263899395	धनदु सिंह
25.	विठ्ठल कुमार	मदन सिंह के लेना	विठ्ठल कुमार
26.	वन्दी सिंह	मदन सिंह के लेना	वन्दी सिंह
27.	रंजना सिंह	मदन सिंह के लेना 9801259661	Ranjana Singh
28.	नवलका सिंह	मदन सिंह के लेना	Nawalika Singh
29.	उमल कुमार	मदन सिंह के लेना	उमल कुमार
30.	संतोष कुमारी	मदन सिंह के लेना	Santosh Kumar

31.	Rame shankar	Sakri	Rame shankar
32.	Rajesh Kumar Singh	Sakori (Amrit Singh)	Rajesh Singh 3/12/26
33.	Rajesh Singh	Vijay Mohan Singh Joshi	Rajesh Singh 3/11/25
34.	ANSHU K	MR. MADAN SINGH	3/10/25
35.			
36.			
37.			
38.			
39.			
40.			
41.			

Annexure –IV
Terms of Reference (ToR)



File No.:
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Level Expert Appraisal Committee(SEAC), BIHAR)



Dated **08/08/2024**



To,

AMRENDRA TIWARI
SARAN ALCOHOL PRIVATE LIMITED
MANAGING DIRECTOR- AMRENDRA TIWARI, ADD- DISTILERY ROAD, GILAN PARA,
POST - DUMKA, DIST - DUMKA, SATE - JHARKHAND, DUMKA, JHARKHAND, 815101
saran.adsoft@gmail.com

Subject: Grant of Standard Terms of Reference (ToR) to the proposed Project under the EIA Notification 2006-
and as amended thereof-regarding.

Sir/Madam,

This is in reference to your application submitted to SEAC,Bihar vide proposal number SIA/BR/MIN/490347/2024 dated 30/07/2024 for grant of Terms of Reference (ToR) to the project under the provision of the EIA Notification 2006-and as amended thereof.

2. The particulars of the proposal are as below :

(i) ToR Identification No.	TO24B0107BR5698769N
(ii) File No.	
(iii) Clearance Type	Fresh ToR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	SAND MINING PROJECT ARWAL SON-03 (ASLAMPUR DULLAH-01)
(viii) Name of Company/Organization	SARAN ALCOHOL PRIVATE LIMITED
(ix) Location of Project (District, State)	ARWAL, BIHAR
(x) Issuing Authority	SEAC
(xii) Applicability of General Conditions	NO

3. The brief about products and by products as submitted by the Project proponent in Form-1 (Part A, B) and Standard Terms of Reference are annexed to this letter.

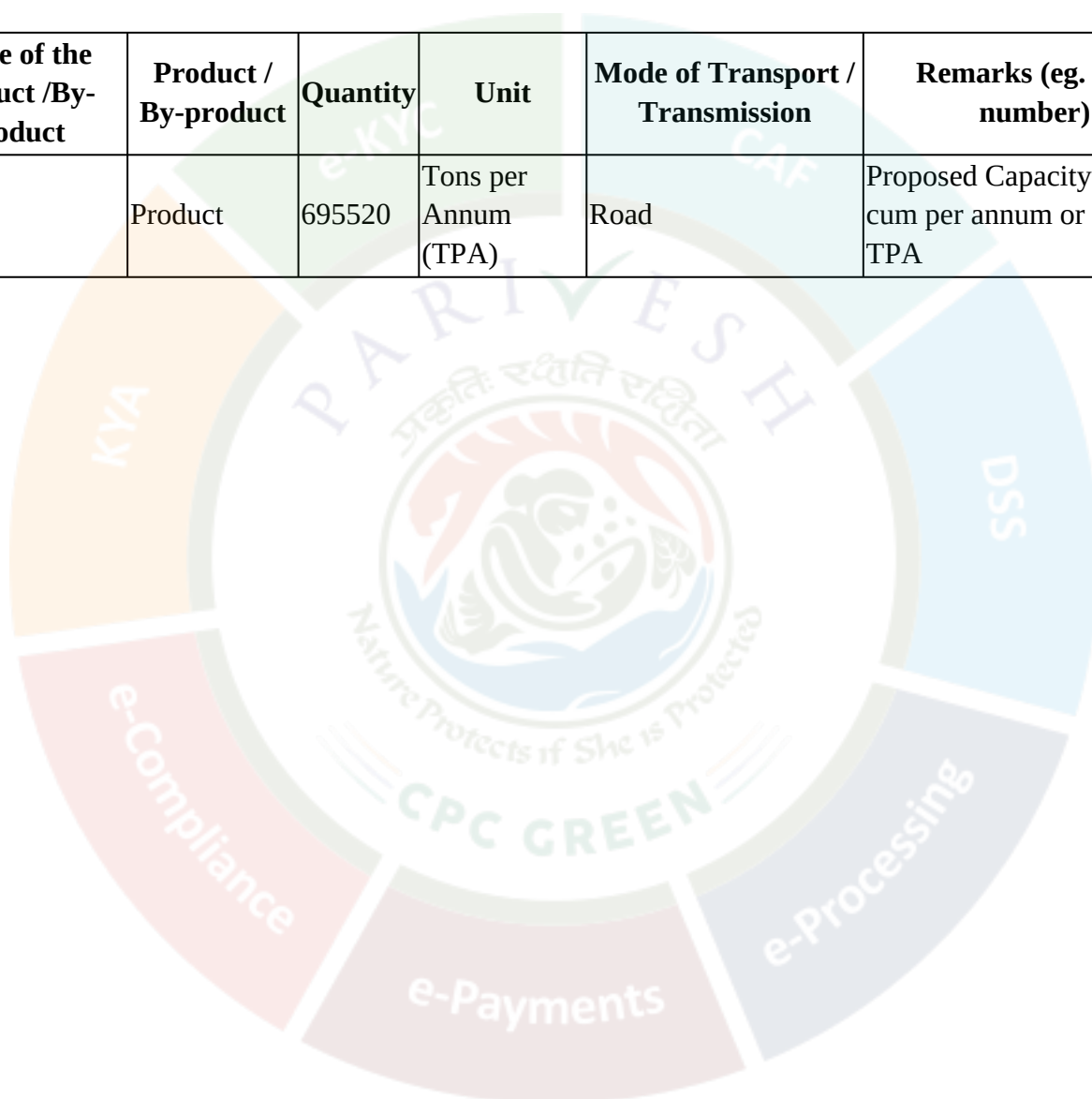
4. The SEIAA/SEAC,Bihar reserves the right to stipulate additional TORs, if found necessary.

5. The Standard Terms of Reference (ToR) to the aforementioned project is under provisions of EIA Notification, 2006 and as amended thereof. It does not tantamount to approvals/consent/permissions etc required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.
6. The granted letter, all the documents submitted as a part of application viz. Form-1 Part A and Part B are available on PARIVESH portal which can be accessed by scanning the QR Code above.

Annexure 2

Details of Products & By-products

Name of the product /By-product	Product / By-product	Quantity	Unit	Mode of Transport / Transmission	Remarks (eg. CAS number)
Sand	Product	695520	Tons per Annum (TPA)	Road	Proposed Capacity- 414000 cum per annum or 695520 TPA



A. STANDARD TERMS OF REFERENCE

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 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 e-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.
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.

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 Rare Endangered and Threatened (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 along with 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 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. 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, anteed based sample survey, family-wise, should be undertaken to assess their requirements, and action programmers prepared and submitted accordingly, integrating the sectoral programmers offline 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.
21. One season (non-monsoon) 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.
22. 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. Details of the model used and input parameters used for modeling should be provided for both mining and non-mining scenario. The air quality contours should be shown on a location map clearly indicating the location of the site, location of sensitive receptors, and the habitation. The wind roses showing pre-dominant wind direction also be indicated on the map.
23. 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.

24. Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.
25. Description of water conservation measures proposed to be adopted in the Project should be given.
26. 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.
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 a forestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of

good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.

32. Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck / tractor and other vehicular traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.
33. Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.
34. Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.
35. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.
36. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.
37. Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.
38. Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.

39. Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.
40. Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.
41. The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.
42. A Disaster management Plan shall be prepared and included in the EIA/EMP Report.
43. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.
44. Besides the above, the below mentioned general points are also to be followed:-
 - a) All documents to be properly referenced with index and continuous page numbering.
 - b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
 - c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
 - d) Where the documents provided are in a language other than English, an English translation should be provided.
 - e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.
 - f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.

- g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.
- h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the Environment Clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.
- i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

B. Additional Conditions:-

1. Submit a report based on a cumulative assessment of the increase in air pollutants due to the increase in traffic load in view of proposed mining activities on all the roads located within an aerial distance of 10 km using a suitable air model.
2. If the proposed mining lease has overlapping areas with the previously allotted mining lease or already working or worked out mining lease, the same should be clearly shown and details about the quantity of sand extracted from the overlapped area should be furnished duly certified by District Mining Officer.
3. The satellite imageries (high resolution) of the last three years for the summer, rainy, and winter seasons of each proposed mining lease shall be submitted.
4. Submit a map on an appropriate scale to show extraction paths to be used outside the mining lease boundary to approach major public roads (Rural/District road or

State/National Highway). An alternative route shall be explored if the extraction path is passing through dense population/ human settlements. Also, submit a cumulative traffic management plan for the cluster sand mining proposal.

5. Submit a map of the area falling within a 2.5 km radius from the boundary of each mining lease showing all man-made public utility features such as bridge/public civil structures (including water intake points), culverts etc., and highways, a table showing a distance of the above mentioned man-made features from the mining lease boundary to facilitate decision making pertaining to relevant rules / Guidelines.
6. Submit a report of the cumulative EIA/EMP study for the cluster sand mining blocks of the proposed mining site.

Copy, through email, for information and necessary actions to:-

1. Member Secretary, State Environment Impact Assessment Authority, Bihar.
2. Member Secretary, Bihar State Pollution Control Board, Patna.
3. Director, Department of Mines and Geology, Govt. of Bihar, Patna.
4. Guard File.

Annexure – V
(Satellite Imaginary Last 3 Years)



Arwal_03 Aslampur Dullah)

Date-14.12.2021

Legend

Google Earth

Copyright © 2021 Google
All rights reserved. Google
Map data provided by Google Technologies



1 km

Arwal_03 Aslampur Dullah)

Date-05.30.2022

Legend



Manish ray

Sonbarsa Makbulpur Alauddin

Sonwarsa Panchayat

Kumar hardware

Konika

Banshidhar Gas stop

Aslampur Dullah

Bansi Dheni

Awla House

131

Rashidpur

Korra

Koran Dhan

Ahiyapur

Barish Honda showroom

Google Earth

Peur Chak

Anand Vikar Restaurant - Room & Hall

Islampur



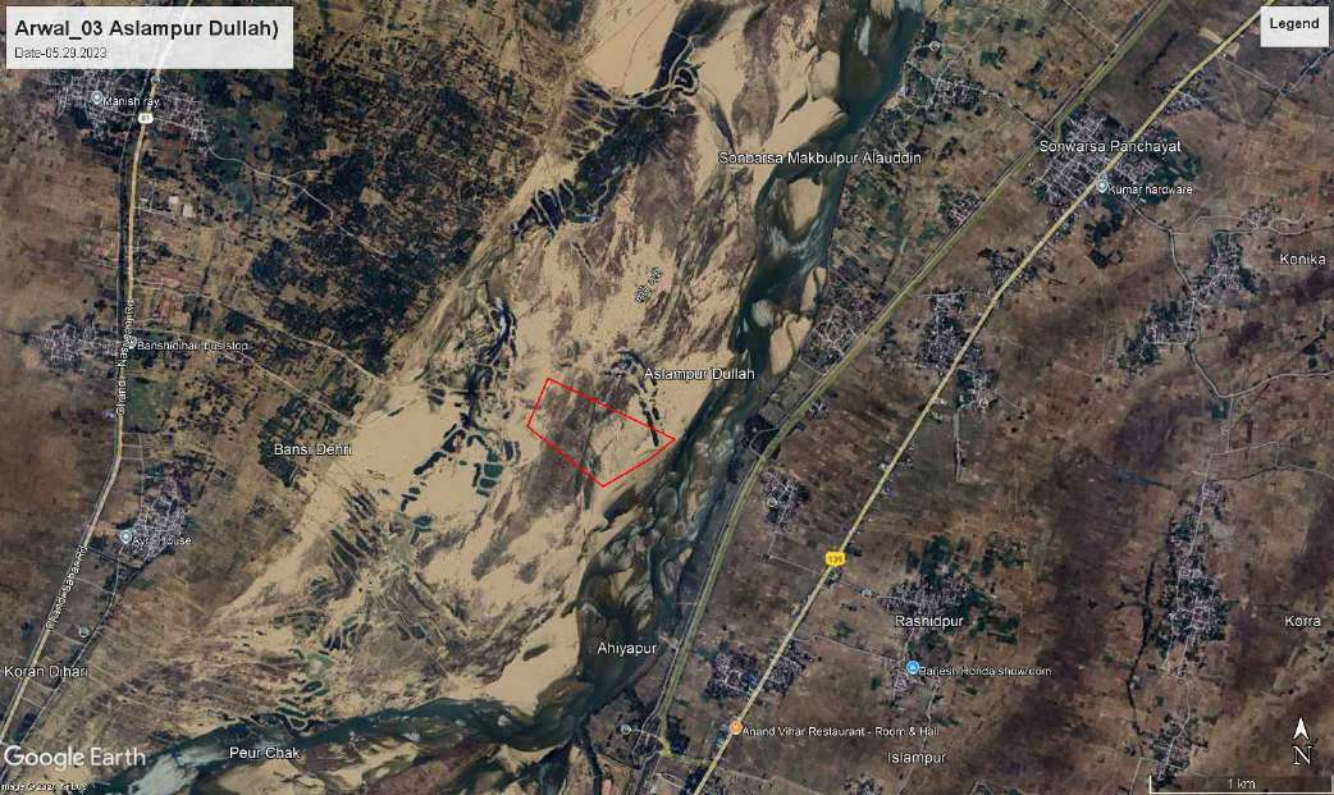
1 km

Copyright 2022 Google
All rights reserved. Google, the Google logo, and
Google Earth are trademarks of Google LLC.

Arwal_03 Aslampur Dullah)

Date-05.29.2023

Legend



Manish ray

Sonbarsa Makbulpur Alauddin

Sonwarsa Panchayat

Kumar hardware

Konika

Bansidihari bus stop

Aslampur Dullah

Bansidihari

Ahiyapur

191

Rashidpur

Korra

Ahiyapur

Bajresh Honda show room

Koran Dihari

Anand Vihar Restaurant - Room & Hall

Islampur

Peur Chak

Google Earth

made: 05/29/2023 11:03



1 km

Arwal_03 Aslampur Dullah)

Date-11.06.2024

Legend



Google Earth



1 km

Annexure –VI
(Letter from DMO, Arwal)

जिला खनन कार्यालय, अरवल।

पत्रांक 77/खनन, अरवल, दिनांक 22/01/2025

प्रेषित,

नाम-अमरेन्द्र तिवारी,
मैनिजिंग: प्रबंधक:- सारण ऐल्कहॉल प्रा0 लि0,
पिता-श्री रामेश्वर तिवारी,
पता-डिस्टिलरी रोड, गिलन पाड़ा,
पोस्ट-दुमका, जिला-दुमका-814101,

विषय :- अरवल जिलान्तर्गत सोन नदी के बालूघाट अरवल सोन-03(असलामपुर दुल्ला-01) का रकवा-23.00 हे0 पर पूर्व से खनन एवं प्रेषण की विवरणी उपलब्ध कराने के संबंध में।

प्रसंग :- आपका आवेदन दिनांक 22.01.2025

उपर्युक्त विषयक आपके आवेदन द्वारा राज्य पर्यावरण समाघत निर्धारण प्राधिकार (SEIAA), बिहार द्वारा निर्गत TOR के Additional Specifice Condition No-02 के आलोक में सूचित किया जाता है कि विषांकित बालूघाट/बालूखण्ड में दिनांक 01.01.2024 से अबतक खनन एवं प्रेषण की मात्रा शुन्य है।

खनिज विकास पदाधिकारी,
अरवल।

Annexure –VII
(Monitoring reports)



TEST REPORT

TEST REPORT NO : ETS/8331/02/2023

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 : FAKHARPUR
Category Of Area : RESIDENTIAL AREA
Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.6	55
2.	Noise Level Night Time	Leq :dB (A)	36.1	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****

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

AUTHORIZED SIGNATORY
Pushpa 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/8332/02/2023

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 : KHANKULIPUR
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)	35.6	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****

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
Pushkar Mittal
AUTHORIZED SIGNATORY
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/8333/07/2023

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 : NANAUR

Category Of Area : RESIDENTIAL AREA

Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	51.4	55
2.	Noise Level Night Time	Leq :dB (A)	37.8	45

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

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

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
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.
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ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

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

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



ISO 45001



TEST REPORT

TEST REPORT NO : ETS/8334/02/2023

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 : PEUR
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)	45.1	50
2.	Noise Level Night Time	Leq :dB (A)	34.7	40

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

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

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
AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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TEST REPORT

TEST REPORT NO : ETS/8326/03/2023

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 : PEUR
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	69.5	33.5	12.7	23.6	0.53
2	12.12.2022	ETS/DI-122	70.2	34.2	8.2	20.0	0.68
3	16.12.2022	ETS/DI-123	68.0	35.2	12.8	23.3	1.21
4	19.12.2022	ETS/DI-124	72.1	34.1	13.9	24.2	0.60
5	23.12.2022	ETS/DI-125	68.6	33.0	9.4	25.3	0.38
6	26.12.2022	ETS/DI-126	66.7	33.3	10.9	24.2	0.48
7	30.12.2022	ETS/DI-127	71.5	33.8	11.9	23.5	0.57
8	01.01.2023	ETS/DI-128	68.7	31.0	10.9	22.1	0.79
9	05.01.2023	ETS/DI-129	64.8	30.2	14.0	32.6	1.09
10	09.01.2023	ETS/DI-130	65.3	27.3	13.1	23.2	0.96
11	12.01.2023	ETS/DI-131	67.6	27.4	12.0	21.4	0.65
12	15.01.2023	ETS/DI-132	64.9	29.7	11.2	24.1	1.21
13	19.01.2023	ETS/DI-133	63.9	32.0	12.7	30.1	0.95
14	22.01.2023	ETS/DI-134	66.1	34.2	13.1	23.2	0.55
15	28.01.2023	ETS/DI-135	68.7	34.4	10.9	24.5	0.79
16	31.01.2023	ETS/DI-136	67.1	33.6	11.6	28.2	1.09
17	04.02.2023	ETS/DI-137	65.4	34.0	13.0	22.1	0.61
18	08.02.2023	ETS/DI-138	64.6	35.3	14.0	21.2	0.96
19	11.02.2023	ETS/DI-139	70.0	33.6	14.6	23.5	0.92
20	14.02.2023	ETS/DI-140	64.4	35.2	13.1	21.0	0.73
21	19.02.2023	ETS/DI-141	65.3	33.7	14.3	23.8	1.21
22	23.02.2023	ETS/DI-142	67.8	34.7	12.8	22.3	1.09
23	27.02.2023	ETS/DI-143	66.8	30.8	14.3	25.6	0.67
24	04.03.2023	ETS/DI-144	69.6	29.5	13.2	22.8	1.21
Minimum			63.9	27.3	8.2	20.0	0.38
Maximum			72.1	35.3	14.6	32.6	1.21
Average			67.4	32.7	12.4	24.0	0.83
98 PERCENTILE			71.84	35.30	14.47	31.45	1.21

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

Note:-

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5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
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For Enviro Tech Services
[Signature]
AUTHORIZED SIGNATORY
Lab In-charge



TEST REPORT

TEST REPORT NO : ETS/8327/03/2023

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 : PIPRA BANGLA
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	56.9	34.9	11.2	20.2	1.41
2	10.12.2022	ETS/DI-146	65.1	35.5	15.3	18.1	1.18
3	12.12.2022	ETS/DI-147	63.1	36.5	12.4	23.1	1.13
4	15.12.2022	ETS/DI-148	66.0	35.4	13.0	24.1	1.18
5	19.12.2022	ETS/DI-149	63.5	34.2	14.0	25.2	0.38
6	22.12.2022	ETS/DI-150	61.7	34.6	15.8	23.4	0.45
7	26.12.2022	ETS/DI-151	66.2	35.2	13.4	24.4	0.57
8	30.12.2022	ETS/DI-152	63.5	32.2	12.4	25.0	0.73
9	03.01.2023	ETS/DI-153	60.3	31.6	14.5	24.3	1.02
10	06.01.2023	ETS/DI-154	60.5	28.6	12.5	22.0	1.18
11	10.01.2023	ETS/DI-155	62.7	28.7	12.7	23.3	1.41
12	13.01.2023	ETS/DI-156	60.4	31.0	12.2	24.4	0.99
13	17.01.2023	ETS/DI-157	59.3	33.3	11.4	25.0	1.18
14	20.01.2023	ETS/DI-158	61.3	35.5	12.5	24.4	0.51
15	23.01.2023	ETS/DI-159	63.6	35.7	10.4	25.0	0.73
16	27.01.2023	ETS/DI-160	62.1	35.0	13.7	20.8	1.02
17	03.02.2023	ETS/DI-161	60.6	35.3	8.3	22.1	0.57
18	07.02.2023	ETS/DI-162	59.8	36.7	12.4	21.5	1.30
19	10.02.2023	ETS/DI-163	64.9	35.0	14.7	22.2	0.85
20	13.02.2023	ETS/DI-164	59.7	36.4	13.4	25.0	0.68
21	17.02.2023	ETS/DI-165	60.5	35.1	9.3	24.4	1.18
22	20.02.2023	ETS/DI-166	62.9	35.9	12.7	20.3	1.02
23	26.02.2023	ETS/DI-167	61.8	32.0	10.6	23.1	1.41
24	03.03.2023	ETS/DI-168	64.5	30.8	12.4	23.4	0.80
Minimum			56.9	28.6	8.3	18.1	0.38
Maximum			66.2	36.7	15.8	25.2	1.41
Average			62.1	33.9	12.5	23.1	0.95
98 PERCENTILE			66.11	36.56	15.57	25.10	1.41

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

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

TEST REPORT

TEST REPORT NO : ETS/8328/03/2023

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 : SAHAR

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-169	75.2	39.9	9.2	18.1	0.46
2	12.12.2022	ETS/DI-170	73.7	40.6	10.2	19.0	0.41
3	16.12.2022	ETS/DI-171	73.7	41.5	11.3	21.1	0.37
4	19.12.2022	ETS/DI-172	77.8	40.5	10.4	18.3	0.76
5	23.12.2022	ETS/DI-173	78.6	39.1	9.7	17.4	0.54
6	26.12.2022	ETS/DI-174	72.2	39.6	8.4	15.6	0.87
7	30.12.2022	ETS/DI-175	77.3	40.2	9.2	18.3	1.08
8	01.01.2023	ETS/DI-176	74.3	37.0	10.2	14.6	0.92
9	05.01.2023	ETS/DI-177	70.4	36.3	11.3	16.2	1.30
10	09.01.2023	ETS/DI-178	70.8	33.0	11.7	21.8	0.98
11	12.01.2023	ETS/DI-179	73.2	33.2	11.3	18.2	0.33
12	15.01.2023	ETS/DI-180	70.5	35.5	10.4	19.1	0.91
13	19.01.2023	ETS/DI-181	69.4	38.1	9.2	20.0	0.87
14	22.01.2023	ETS/DI-182	71.6	40.6	9.6	21.3	1.30
15	28.01.2023	ETS/DI-183	74.4	40.8	10.2	21.9	1.19
16	31.01.2023	ETS/DI-184	72.6	40.0	8.8	22.6	0.98
17	04.02.2023	ETS/DI-185	70.9	40.3	9.3	21.4	1.21
18	08.02.2023	ETS/DI-186	70.0	41.7	10.4	21.0	1.19
19	11.02.2023	ETS/DI-187	75.7	40.0	11.1	22.6	1.34
20	14.02.2023	ETS/DI-188	69.8	41.5	12.3	23.1	0.43
21	19.02.2023	ETS/DI-189	70.8	40.1	11.0	22.1	0.87
22	23.02.2023	ETS/DI-190	73.5	41.0	10.6	21.2	1.19
23	27.02.2023	ETS/DI-191	72.3	36.8	9.9	20.0	1.30
24	04.03.2023	ETS/DI-192	75.3	35.3	11.7	18.5	0.84
Minimum			69.4	33.0	8.4	14.6	0.33
Maximum			78.6	41.7	12.3	23.1	1.34
Average			73.1	38.9	10.3	19.7	0.90
98 PERCENTILE			78.27	41.62	12.06	22.86	1.32

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

Note:-

1. Test reports will not be issued if the sample is not received within the specified time.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
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For Enviro Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

TEST REPORT

TEST REPORT NO : ETS/8329/02/2023

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 : NEAR 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)	50.2	55
2.	Noise Level Night Time	Leq :dB (A)	42.3	45

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

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

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

AUTHORIZED SIGNATORY
Lab In-charge

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TEST REPORT

TEST REPORT NO : ETS/8330/02/2023

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 : AHIYAPUR
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)	52.3	55
2.	Noise Level Night Time	Leq :dB (A)	38.5	45

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

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



Note:-

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ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/8318/02/2023

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 : 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	<5.1	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.85	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.5	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	547.5	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	267.2	IS:3025 (Pt-23)
7.	Total Hardness(CaCO ₃)	mg/L	341.4	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	107.4	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	51.8	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.02	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	36.90	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	2.30	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.24	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.21	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	21.20	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.2	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.49	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	680.6	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	19.6	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	5.30	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.49	APHA-5210
34.	E. Coli	MPN/100ml	180	IS:1622-1981
35.	Total Coliform	MPN/100ml	710	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	340	APHA-9221

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

Note:-

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

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

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4. Our liability is limited to the value only.

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

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For Enviro-Tech Services

Pushkar Mittal
LAB IN-CHARGE
AUTHORIZED SIGNATORY



ENVIRO-TECH SERVICES

An Analytical Laboratory



ISO 45001

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

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

TEST REPORT

TEST REPORT NO : ETS/8319/02/2023

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 : 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-3 POND

Sampling Method : ETS/STP/WATER-01

Sampling Quantity : 2.0 +0.5 Lt.

Packing Condition : SEALED

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

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.68	IS:3025 (Pt-11)
4.	Turbidity	NTU	16.8	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	542.7	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	195.3	IS:3025 (Pt-23)
7.	Total Hardness(CaCO ₃)	mg/L	264.1	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	81.6	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	55.3	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.04	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	72.2	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	3.45	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.41	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.21	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	29.8	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.4	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.55	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	759.4	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	20.8	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	5.40	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.08	APHA-5210
34.	E. Coli	MPN/100ml	340	IS:1622-1981
35.	Total Coliform	MPN/100ml	1160	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	630	APHA-9221

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

Note:-

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

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

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

4. Our liability is limited to the value only.

5. The sample shall be destroyed after 15 days & Biological & Toxicological samples 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/8321/03/2023

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(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)
S.N.	Monitoring Date	Sample ID	Test Results				
1	07.12.2022	ETS/DI-01	72.7	39.9	13.4	21.3	0.43
2	10.12.2022	ETS/DI-02	73.0	40.6	11.1	23.7	0.48
3	12.12.2022	ETS/DI-03	71.0	41.4	10.1	24.8	0.44
4	15.12.2022	ETS/DI-04	65.9	40.5	11.0	23.1	0.50
5	19.12.2022	ETS/DI-05	71.5	39.2	12.3	25.5	0.43
6	22.12.2022	ETS/DI-06	69.6	39.7	12.9	24.9	0.57
7	26.12.2022	ETS/DI-07	74.4	40.1	11.3	24.6	0.67
8	30.12.2022	ETS/DI-08	71.6	37.5	9.9	22.9	0.62
9	03.01.2023	ETS/DI-09	68.0	36.8	12.5	21.6	0.52
10	06.01.2023	ETS/DI-10	68.4	33.9	12.9	25.5	0.68
11	10.01.2023	ETS/DI-11	70.6	34.1	13.6	25.5	0.72
12	13.01.2023	ETS/DI-12	68.0	36.3	14.6	24.9	0.75
13	17.01.2023	ETS/DI-13	67.1	38.4	12.6	25.9	0.51
14	20.01.2023	ETS/DI-14	69.1	40.6	15.7	26.9	0.50
15	23.01.2023	ETS/DI-15	71.6	40.7	11.1	29.0	0.60
16	27.01.2023	ETS/DI-16	70.0	40.0	10.1	27.7	1.41
17	03.02.2023	ETS/DI-17	68.4	40.3	12.6	30.0	0.89
18	07.02.2023	ETS/DI-18	67.6	41.5	12.2	25.8	0.91
19	10.02.2023	ETS/DI-19	72.8	40.0	10.0	26.7	1.35
20	13.02.2023	ETS/DI-20	67.4	41.3	10.7	26.2	0.65
21	17.02.2023	ETS/DI-21	68.4	40.0	13.8	24.6	1.23
22	20.02.2023	ETS/DI-22	70.9	41.0	12.6	26.7	0.54
23	26.02.2023	ETS/DI-23	69.7	37.3	13.6	25.2	0.67
24	03.03.2023	ETS/DI-24	72.4	36.1	11.6	23.1	0.99
Minimum			65.9	33.9	9.9	21.3	0.43
Maximum			74.4	41.5	15.7	30.0	1.41
Average			70.0	39.0	12.2	25.3	0.71
98 PERCENTILE			73.75	41.46	15.23	29.58	1.38

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

CHECKED BY
SHRADHA GUPTA

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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/8322/03/2023

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 : AHIYAPUR

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-25	67.2	34.0	12.2	21.8	0.61
2	12.12.2022	ETS/DI-26	67.9	34.7	14.9	23.0	0.87
3	16.12.2022	ETS/DI-27	65.7	35.7	13.5	24.2	0.76
4	19.12.2022	ETS/DI-28	69.7	34.6	14.9	24.9	0.87
5	23.12.2022	ETS/DI-29	66.2	33.3	13.4	23.1	1.38
6	26.12.2022	ETS/DI-30	64.3	33.7	14.4	22.0	1.29
7	30.12.2022	ETS/DI-31	69.3	34.2	13.6	25.1	1.31
8	01.01.2023	ETS/DI-32	66.3	31.0	12.8	22.0	0.88
9	05.01.2023	ETS/DI-33	62.5	30.3	13.5	22.9	0.76
10	09.01.2023	ETS/DI-34	62.9	27.0	14.2	24.2	0.71
11	12.01.2023	ETS/DI-35	65.3	27.2	14.6	25.2	1.31
12	15.01.2023	ETS/DI-36	62.5	29.6	13.4	23.1	0.65
13	19.01.2023	ETS/DI-37	61.5	32.2	12.3	26.5	1.24
14	22.01.2023	ETS/DI-38	63.8	34.7	13.6	24.3	0.68
15	28.01.2023	ETS/DI-39	66.3	34.9	13.8	25.2	0.98
16	31.01.2023	ETS/DI-40	64.7	34.1	14.4	26.1	1.28
17	04.02.2023	ETS/DI-41	63.0	34.4	13.5	24.3	0.71
18	08.02.2023	ETS/DI-42	62.1	35.8	16.7	23.3	1.54
19	11.02.2023	ETS/DI-43	67.7	34.1	12.3	21.8	0.67
20	14.02.2023	ETS/DI-44	61.9	35.6	13.7	20.1	1.35
21	19.02.2023	ETS/DI-45	62.9	34.2	14.2	24.4	0.70
22	23.02.2023	ETS/DI-46	65.6	35.1	13.8	23.1	0.67
23	27.02.2023	ETS/DI-47	64.4	30.8	13.5	21.4	1.26
24	04.03.2023	ETS/DI-48	67.3	29.4	12.5	24.2	0.64
Minimum			61.5	27.0	12.2	20.1	0.61
Maximum			69.7	35.8	16.7	26.5	1.54
Average			65.0	32.9	13.7	23.6	0.96
98 PERCENTILE			69.54	35.80	15.88	26.28	1.47

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

TEST REPORT

TEST REPORT NO : ETS/8323/03/2023

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 : FAKHARPUR

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	63.3	29.7	10.4	22.7	0.67
2	10.12.2022	ETS/DI-50	64.0	30.2	11.4	23.6	0.97
3	12.12.2022	ETS/DI-51	62.0	31.1	9.7	22.5	1.08
4	15.12.2022	ETS/DI-52	65.7	30.2	10.0	24.8	0.75
5	19.12.2022	ETS/DI-53	62.4	29.0	10.7	23.8	1.47
6	22.12.2022	ETS/DI-54	68.0	29.4	11.5	25.4	1.19
7	26.12.2022	ETS/DI-55	65.3	29.9	11.7	23.6	1.11
8	30.12.2022	ETS/DI-56	62.5	27.2	12.2	26.0	0.89
9	03.01.2023	ETS/DI-57	64.6	36.5	11.7	24.3	0.86
10	06.01.2023	ETS/DI-58	59.3	33.2	11.5	22.7	0.55
11	10.01.2023	ETS/DI-59	61.6	31.1	12.2	23.6	1.22
12	13.01.2023	ETS/DI-60	59.1	26.0	14.5	24.9	0.92
13	17.01.2023	ETS/DI-61	58.1	28.2	11.6	28.1	1.41
14	20.01.2023	ETS/DI-62	60.2	30.2	11.4	23.8	0.67
15	23.01.2023	ETS/DI-63	62.5	30.4	8.2	25.1	1.08
16	27.01.2023	ETS/DI-64	61.0	29.7	9.7	26.0	0.81
17	03.02.2023	ETS/DI-65	59.4	30.1	9.4	23.6	0.84
18	07.02.2023	ETS/DI-66	58.6	31.2	10.6	26.4	1.30
19	10.02.2023	ETS/DI-67	63.8	29.7	11.7	24.9	1.08
20	13.02.2023	ETS/DI-68	58.4	31.0	9.6	23.7	0.76
21	17.02.2023	ETS/DI-69	59.3	29.8	10.8	25.1	1.08
22	20.02.2023	ETS/DI-70	61.8	30.7	11.6	26.0	1.33
23	26.02.2023	ETS/DI-71	60.7	27.0	9.8	23.1	1.17
24	03.03.2023	ETS/DI-72	63.4	25.9	11.4	24.8	0.55
Minimum			58.1	25.9	8.2	22.5	0.55
Maximum			68.0	36.5	14.5	28.1	1.47
Average			61.9	29.9	11.0	24.5	0.99
98 PERCENTILE			66.94	34.95	13.43	27.31	1.44

End of Test Report

CHECKED BY
SHRADDHA GUPTA

Page 1 of 1

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Sushkar Mittal
Lab In-charge

Note:-

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/8324/03/2023

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 : KHANKULIPUR

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-73	66.6	34.4	16.5	22.1	0.58
2	12.12.2022	ETS/DI-74	67.3	35.0	12.2	23.2	0.58
3	16.12.2022	ETS/DI-75	65.1	36.1	14.4	21.2	1.00
4	19.12.2022	ETS/DI-76	66.6	35.0	13.3	22.3	0.75
5	23.12.2022	ETS/DI-77	65.7	33.7	12.6	24.3	0.75
6	26.12.2022	ETS/DI-78	63.7	34.1	13.4	21.2	1.17
7	30.12.2022	ETS/DI-79	68.5	34.7	13.9	20.1	0.98
8	01.01.2023	ETS/DI-80	65.7	31.6	14.4	21.2	1.44
9	05.01.2023	ETS/DI-81	61.9	30.9	14.0	22.3	1.14
10	09.01.2023	ETS/DI-82	62.4	27.5	14.6	23.2	1.58
11	12.01.2023	ETS/DI-83	64.7	27.8	13.4	24.7	0.67
12	15.01.2023	ETS/DI-84	62.0	30.2	14.4	25.7	0.84
13	19.01.2023	ETS/DI-85	61.0	32.8	13.8	26.5	1.33
14	22.01.2023	ETS/DI-86	63.2	35.0	12.7	24.7	0.67
15	28.01.2023	ETS/DI-87	65.8	35.3	10.9	23.5	1.08
16	31.01.2023	ETS/DI-88	64.2	34.6	11.7	22.4	1.50
17	04.02.2023	ETS/DI-89	62.5	34.8	12.5	23.5	0.84
18	08.02.2023	ETS/DI-90	61.6	36.3	13.9	24.4	0.92
19	11.02.2023	ETS/DI-91	67.0	34.6	14.9	26.0	1.00
20	14.02.2023	ETS/DI-92	61.5	36.0	13.2	24.3	1.41
21	19.02.2023	ETS/DI-93	62.4	34.6	11.4	23.5	1.00
22	23.02.2023	ETS/DI-94	65.0	35.6	12.6	28.5	0.53
23	27.02.2023	ETS/DI-95	70.2	31.5	13.3	23.4	1.08
24	04.03.2023	ETS/DI-96	66.6	29.9	14.0	25.4	0.95
Minimum			61.0	27.5	10.9	20.1	0.53
Maximum			70.2	36.3	16.5	28.5	1.58
Average			64.6	33.4	13.4	23.6	0.99
98 PERCENTILE			69.43	36.18	15.76	27.58	1.54

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

Note:-

- Test reports with 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 15 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.



For Enviro-Tech Services

[Signature]

Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY



TEST REPORT

TEST REPORT NO : ETS/8325/03/2023

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 : NANAUR
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	64.9	38.3	11.3	24.4	0.66
2	10.12.2022	ETS/DI-98	73.6	39.0	9.2	17.6	0.36
3	12.12.2022	ETS/DI-99	71.3	40.1	11.3	23.2	1.03
4	15.12.2022	ETS/DI-100	75.5	39.0	10.6	26.0	0.66
5	19.12.2022	ETS/DI-101	71.8	37.5	11.3	22.3	0.59
6	22.12.2022	ETS/DI-102	69.7	37.9	11.3	23.5	1.19
7	26.12.2022	ETS/DI-103	75.0	38.6	12.4	24.7	1.02
8	30.12.2022	ETS/DI-104	71.8	35.2	11.6	25.6	0.76
9	03.01.2023	ETS/DI-105	67.8	34.5	12.1	25.8	1.12
10	06.01.2023	ETS/DI-106	68.4	31.0	10.6	25.0	1.15
11	10.01.2023	ETS/DI-107	70.9	31.1	11.3	23.5	0.91
12	13.01.2023	ETS/DI-108	68.0	33.7	12.1	24.7	0.89
13	17.01.2023	ETS/DI-109	66.9	36.4	11.5	25.7	0.46
14	20.01.2023	ETS/DI-110	69.2	39.0	11.4	24.8	0.59
15	23.01.2023	ETS/DI-111	71.9	39.2	12.1	25.8	0.96
16	27.01.2023	ETS/DI-112	70.1	38.4	12.5	25.9	0.46
17	03.02.2023	ETS/DI-113	68.4	38.7	11.5	23.5	1.17
18	07.02.2023	ETS/DI-114	67.5	40.2	12.1	26.6	0.96
19	10.02.2023	ETS/DI-115	73.3	38.4	11.4	29.4	1.03
20	13.02.2023	ETS/DI-116	67.3	40.0	11.3	24.6	0.53
21	17.02.2023	ETS/DI-117	68.4	38.5	10.6	25.8	1.03
22	20.02.2023	ETS/DI-118	71.2	39.4	11.3	27.0	1.11
23	26.02.2023	ETS/DI-119	69.8	35.0	12.1	25.6	1.11
24	03.03.2023	ETS/DI-120	73.0	33.4	13.0	23.5	0.60
Minimum			64.9	31.0	9.2	17.6	0.36
Maximum			75.5	40.2	13.0	29.4	1.19
Average			70.2	37.2	11.5	24.8	0.85
98 PERCENTILE			75.26	40.14	12.77	28.30	1.18

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

Note:-

- Test reports checked by SHRADHA GUPTA
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For Enviro-Tech Services

AUTHORIZED SIGNATORY



TEST REPORT

TEST REPORT NO : ETS/8312/02/2023

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-8312
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : AHYAPUR
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	428.2	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	172.1	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	184.3	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	73.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	42.8	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	17.47	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	2.35	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.24	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
SHRADDHA GUPTA

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

Note:- 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.
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TEST REPORT

TEST REPORT NO : ETS/8312/02/2023

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	19.67	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.24	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	670.2	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****

CHECKED BY
SHRADDHA GUPTA

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For Enviro-Tech Services

AUTHORIZED SIGNATORY
Pushkar Mittal
Lab in-charge



TEST REPORT

TEST REPORT NO : ETS/8313/02/2023

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-8313

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : FAKHARPUR

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	---	7.28	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	329.6	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	125.9	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	165.2	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	84.5	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	70.0	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	21.45	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	1.49	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

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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For Enviro Tech Services

AUTHORIZED SIGNATORY

Lab In-charge



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/8313/02/2023

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	16.86	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.13	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	538.6	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

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

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For Enviro-Tech Services
AUTHORIZED SIGNATORY
Lab In-charge

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

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ENVIRO-TECH SERVICES

An Analytical Laboratory



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/8314/02/2023

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-8314
Sampling Done By : ETS STAFF
Sampling Description : GROUND WATER
Sampling Location : NANAU
Sampling Method : ETS/STP/WATER-01
Sampling Quantity : 2.0 +0.5 Lt.
Packing Condition : SEALED
Packed In : P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.13	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	203.4	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	167.3	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	191.6	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	95.9	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	46.8	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	25.63	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.79	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.07	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.17	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

Page 1 of 2

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Lab In-charge

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TEST REPORT

TEST REPORT NO : ETS/8314/02/2023

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	24.80	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.21	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	460.2	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****

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TEST REPORT

TEST REPORT NO : ETS/8315/02/2023

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-8315

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : PIPRA BANGLA

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	---	7.85	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	353.4	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	201.7	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	76.2	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	44.0	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	25.91	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	0.34	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.16	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

Page 1 of 2

CHECKED BY
SHRADDHA GUPTA

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For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge



TEST REPORT

TEST REPORT NO : ETS/8315/02/2023

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	19.40	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.34	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	532.7	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****

Page 2 of 2

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Lab In-charge

CHECKED BY
SHRADDHA GUPTA

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TEST REPORT

TEST REPORT NO : ETS/8316/02/2023

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-8316

Sampling Done By : ETS STAFF

Sampling Description : GROUND WATER

Sampling Location : GOV.MIDDLE SCHOOL BHERHARIYA ENGLISH

Sampling Method : ETS/STP/WATER-01

Sampling Quantity : 2.0 +0.5 Lt.

Packing Condition : SEALED

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

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.41	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	515.9	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity (CaCO ₃)	mg/L	167.1	200	600	IS:3025 (Pt-23)
8.	Total Hardness (CaCO ₃)	mg/L	252.6	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	124.1	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	82.2	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO ₄)	mg/L	26.58	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO ₃)	mg/L	0.23	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.34	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.13	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

Page 1 of 2

CHECKED BY
SHRADDHA GUPTA

Not to be used for any purpose other than the purpose for which it was issued.

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

2. The results indicated only for the purpose for which it was issued.

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

Pushkar Mittal
Lab In-charge



TEST REPORT

TEST REPORT NO : ETS/8316/02/2023

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	16.61	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	0.31	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	790.3	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

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

CHECKED BY

SHRADDHA GUPTA

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For Enviro-Tech Services

AUTHORIZED SIGNATORY

Pushpal Wimal
Lab In-charge

TEST REPORT

TEST REPORT NO : ETS/8317/02/2023

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 : 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	<5.1	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.55	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.7	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	567.9	IS:3025 (Pt-16)
6.	Total Alkalinity (CaCO ₃)	mg/L	242.5	IS:3025 (Pt-23)
7.	Total Hardness(CaCO ₃)	mg/L	358.8	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	124.1	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	72.4	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.02	IS:3025 (Pt-39)
11.	Sulphate (SO ₄)	mg/L	68.8	IS:3025 (Pt-24)
12.	Nitrate (NO ₃)	mg/L	2.81	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.41	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	27.00	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	28.5	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.2	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.73	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	784.9	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	17.7	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.87	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	6.02	APHA-5210
34.	E. Coli	MPN/100ml	220	IS:1622-1981
35.	Total Coliform	MPN/100ml	820	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	410	APHA-9221

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

Note:-

Page 1 of 1

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For Enviro-Tech Services

AUTHORIZED SIGNATORY

Rushkar Mittal
Lab in-charge



TEST REPORT

TEST REPORT NO : ETS/8335/02/2023

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 : PIPRA BANGLA
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)	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****

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

Pushkar Mittal
AUTHORIZED SIGNATORY
Lab in Charge

Note:-

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

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

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

TEST REPORT

TEST REPORT NO : ETS/8336/02/2023

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 : SAHAR
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)	45.3	55
2.	Noise Level Night Time	Leq :dB (A)	33.1	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****

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
AUTHORIZED SIGNATURE
Lab In-charge

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TEST REPORT

TEST REPORT NO : ETS/8337/02/2023

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-8337

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	%	62.5	IS:2720 (Pt-4)
3.	Silt	%	23.4	IS:2720 (Pt-4)
4.	Clay	%	14.1	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.52	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.00	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	319.1	IS:14767
8.	Water Holding Capacity(WHC)	%	39.3	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	129.1	APHA-3125B
10.	Calcium (Ca)	mg/kg	1188.3	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	510.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.87	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	204.1	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	46.0	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	240.2	APHA-3125B
16.	Organic Matter	%	1.74	IS : 2720 (P-22)
17.	Organic Carbon	%	1.14	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.24	IS:3025(P-24)
19.	Porosity	%	22.15	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.12	ASTM 9214

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

Note:-

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TEST REPORT

TEST REPORT NO : ETS/8338/02/2023

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-8338

Sampling Done By : ETS STAFF

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

Sampling Location : AGRICULTURE LAND AHYAPUR

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	%	53.4	IS:2720 (Pt-4)
3.	Silt	%	26.2	IS:2720 (Pt-4)
4.	Clay	%	20.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.73	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.41	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	326.0	IS:14767
8.	Water Holding Capacity(WHC)	%	38.4	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	167.2	APHA-3125B
10.	Calcium (Ca)	mg/kg	1234.5	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	468.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.12	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	173.5	APHA,Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	51.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	296.2	APHA-3125B
16.	Organic Matter	%	0.84	IS : 2720 (P-22)
17.	Organic Carbon	%	1.61	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.40	IS:3025(P-24)
19.	Porosity	%	23.32	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.77	ASTM 9214

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

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CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
AUTHORIZED SIGNATORY



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

TEST REPORT

TEST REPORT NO : ETS/8339/02/2023

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-8339

Sampling Done By : ETS STAFF

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

Sampling Location : AGRICULTURE LAND NANAUR

Sampling Quantity : 2 kg.

Packing Condition : SEALED

Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	56.7	IS:2720 (Pt-4)
3.	Silt	%	26.3	IS:2720 (Pt-4)
4.	Clay	%	17.0	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.93	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	2.10	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	335.6	IS:14767
8.	Water Holding Capacity(WHC)	%	35.6	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	147.3	APHA-3125B
10.	Calcium (Ca)	mg/kg	949.8	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	526.1	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.40	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	136.1	APHA, Pt 4500: (N)
14.	Phosphorus (PO ₄)	mg/kg	48.6	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	243.7	APHA-3125B
16.	Organic Matter	%	1.03	IS : 2720 (P-22)
17.	Organic Carbon	%	1.68	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	2.05	IS:3025(P-24)
19.	Porosity	%	25.48	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.22	ASTM 9214

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

Note:-

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CHECKED BY
SHRADDHA GURTA

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge
AUTHORIZED SIGNATORY



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ENVIRO-TECH SERVICES

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

TEST REPORT

TEST REPORT NO : ETS/8340/02/2023

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-8340

Sampling Done By : ETS STAFF

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

Sampling Location : AGRICULTURE LAND PEUR

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	%	65.4	IS:2720 (Pt-4)
3.	Silt	%	22.3	IS:2720 (Pt-4)
4.	Clay	%	12.3	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.26	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.59	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	326.1	IS:14767
8.	Water Holding Capacity(WHC)	%	33.7	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	144.6	APHA-3125B
10.	Calcium (Ca)	mg/kg	1038.6	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	515.0	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.30	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	173.4	APHA, Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	39.6	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	245.0	APHA-3125B
16.	Organic Matter	%	1.03	IS : 2720 (P-22)
17.	Organic Carbon	%	1.77	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.30	IS:3025(P-24)
19.	Porosity	%	30.28	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.86	ASTM 9214

****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 GURTA

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

TEST REPORT

TEST REPORT NO : ETS/8341/02/2023

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-8341
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	%	76.3	IS:2720 (Pt-4)
3.	Silt	%	11.1	IS:2720 (Pt-4)
4.	Clay	%	12.6	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.62	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.47	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	353.1	IS:14767
8.	Water Holding Capacity(WHC)	%	42.5	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	147.1	APHA-3125B
10.	Calcium (Ca)	mg/kg	1218.5	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	405.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm ³	1.38	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	240.1	APHA,Pt 4500:(N)
14.	Phosphorus (PO ₄)	mg/kg	59.6	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	375.5	APHA-3125B
16.	Organic Matter	%	1.13	IS : 2720 (P-22)
17.	Organic Carbon	%	1.35	BS 1377 -3)
18.	Sulphate as (SO ₄)	mg/kg	1.80	IS:3025(P-24)
19.	Porosity	%	25.20	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.16	ASTM 9214

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

Note:-

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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.

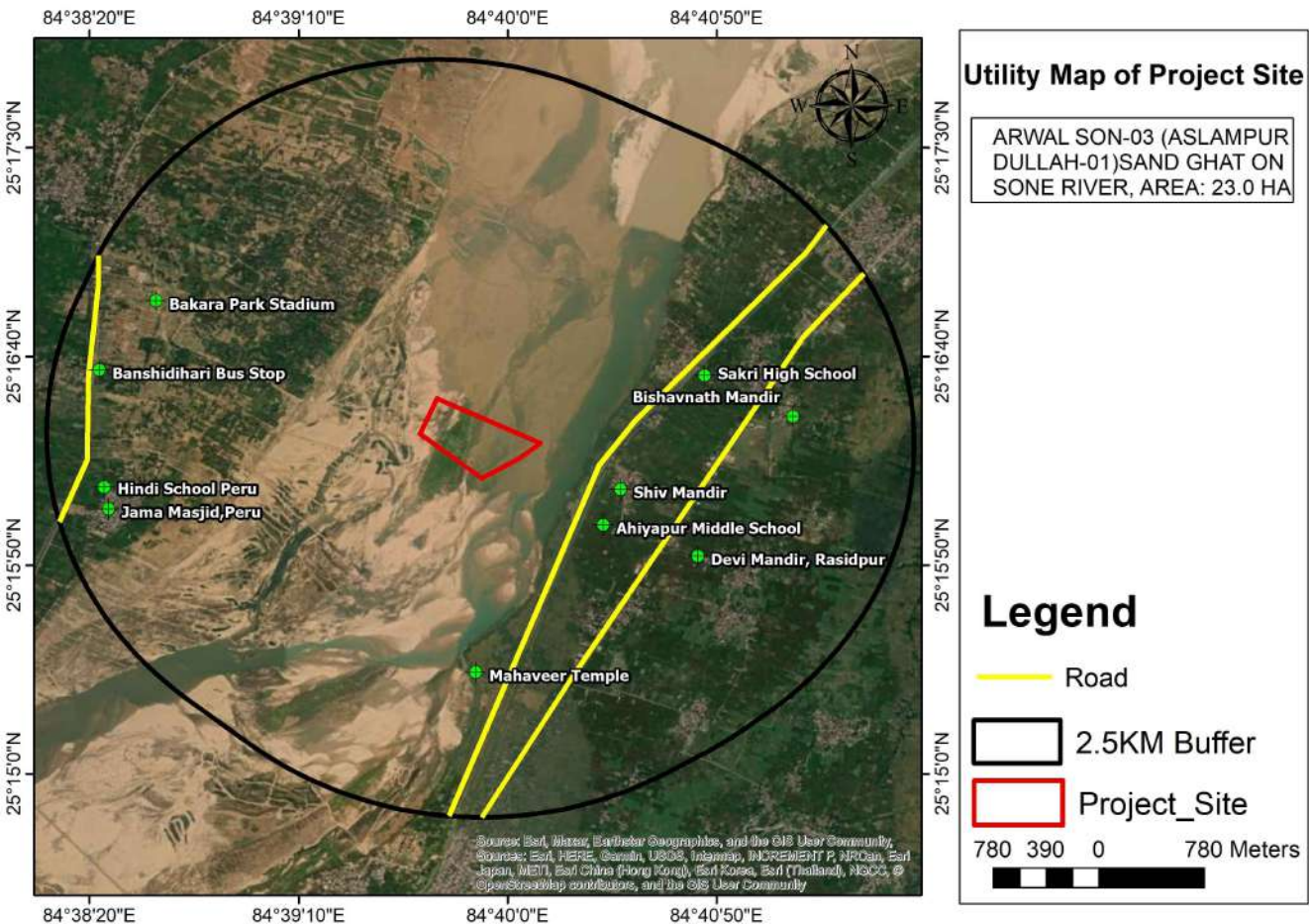


For Enviro-Tech Services

Pushkar Mittal

AUTHORIZED SIGNATORY

Annexure –VIII
(2.5 Km Utility Map)



Annexure –IX
(Questionnaire)

PROFORMA FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS
(MINING SECTOR PROJECTS)

- Note 1: All information to be given in the form of Annex/s should be properly numbered and form part of reply to this Performa.
- Note 2: Please enter √ in appropriate box where answer is Yes / No
- Note 3: No abbreviation to be used - **Not available** or **Not applicable** should be clearly mentioned.
- Note 4: **Core zone** is the mining lease area.
Buffer zone in case of ML area up to 25 ha is to be considered as **5 km** all around the periphery of the core zone and for ML area above 25 ha an area **10 km** all around the periphery of the core zone.
- Note 5: Adopt **Scoping process** in carrying out EIA study.

1. General Information

1.	General information	
a	Name of the project	Arwal Son-03 (Aslampur Dullah-01) Sand Ghat
I	Name of the proponent	Amrendra Tiwari
ii	Mailing Address	Saran Alcohol Pvt. Ltd. Managing Director- Amrendra Tiwari S/o- Sri Rameshwar Tiwari Address- Distillery road, Gilanpara, Post Office- Dumka, District- Dumka- 814101
	E-mail	saran.adsoft@gmail.com
	Telephone	9162789789
	Fax No.	--
b	Objective of the project	Sand Mining
c	Location of mine	
	Village	Mauza- Aslampur Dullah
	Tehsil	Block- Arwal
	District	Arwal
	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°16'10.83"N to 25°16'29.88"N	
	Longitude	84°39'39.03"E to 84°40'7.84"E	
	Survey of India Topo sheet number	72C/11, 72C/15, 72C/12 & 72C/16	
	Elevation above Mean Sea Level	67.8 ASML to 70.4 ASML	
	Total mining lease area (in ha.)	23.0 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	23.0 Ha.	
f	Others (Private Land)	--	
g	Others (Own Land)	--	
	Total	23.0 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– III	
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		-	23.0 Ha.	-	--	23.0 Ha.	-	23.0 Ha	-	--	-	-	-	-
2. Storage for top soil		-		-	-	-	-		-	-	-	-	-	-
3. Overburden / Dumps		-		-	--	--	-		-	--	-	-	-	-
4. Mineral storage		-		-	-	-	-		-	-	-	-	-	-
5. Infrastructure (Workshop, Administrative Building)		-		-	--	--	-		-	--	-	-	-	-
6. Roads		-		-	--	--	-		-	--	-	-	-	-
7. Railways		-		-			-		-		-	-	-	-
8. Green Belt		-		-	--	--	-		-	--	-	-	-	-
9.Parapet wall		-	-	-	--	--	-	-	-	--	-	-	-	-
10.Garland Drain		-	-	-	--	--	-	-	-	--	-	-	-	-
11.Coal handling plant / mineral separation plant		-	-	-	--	--	-	-	-	--	-	-	-	-
12. Township area		-	-	--	-	-	-	-	-	-	-	-	-	-
13. Area under Canal			-					-				-		
14. Undisturbed												-		
13.Other	Water reservoir	-	--	-	--	--	--	--		--	--	-	-	-
	Rehab. & Rehabilitation by plantation	-	--		--	--	--	--		-	--	-	-	-
	Undisturbed	-	---		--	--		--		--	--	-	-	-
TOTAL		-	23.0 Ha.	-	-	23.0 Ha.	--	23.0 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	Yes	-	This is the cluster mine lease. Total cluster area of mine is 111.90 Ha.
10.	Airport	Nil	-	-
11.	Railway Lines	Nil	-	-
12.	National / State Highways	NH-139	-	Approx. 1.2 Km towards ESE
[* 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	6,95,520 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)	6,95,520 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-562/Khanan, Arwal, dated 07.06.2024 for the period of Five Years	
d	Date of expiry of lease (D /M /Y)	-	
e	Indicate in case of existing mines	-	
i	Date of opening of mine	-	
ii	Production in the last 5 Years	-	
iii	Projected production for the next 6 th to 10 th year	-	
iv	Whether mining was suspended after opening of the mine?	-	
v	If yes, details there of including last production figure and reason for the same.	--	
f	Whether plans & sections provided?	Yes	
13	Type and method of mining operations		
TYPE		METHOD	
Opencast	√	Manual	-
Underground	-	Mechanized	-
Both	-	Semi-mechanized	√
14	Details of ancillary operations for mineral processing		
a	Existing	-	
b	Additional	-	
15	Mine details		
a	Opencast mine		
i	Stripping ratio (mineral in tonnes to over burden in m ³)	-	
ii	Ultimate working depth (in m bgl)	3 m	
iii	Indicate present working depth in case of existing mine (in m bgl)	--	
iv	Thickness of top soil (in m.)	--	
a	Minimum	0.0	
b	Maximum	0	
c	Average	0	
v	Thickness of overburden (in m.)		
a	Minimum	0.0	

b	Maximum	0
c	Average	--
vi	Mining Plan	
a	Height and width of the bench in overburden / waste.	0
b	Height & width of the bench in ore body / coal seam.	Height: 1 m Width : 1.5 m
c	Proposed inclination / slope of the sides of the opencast mine (separately for overburden, coal / ore and overall slope of the pit sides) both while operating the mine as well as at the time of closure of the mine.	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	5490	
b	After the proposed activity		6216	
c	Whether the existing road network is adequate?	Yes		
	If no, provide details of alternative proposal?	-		
19	Loading, transportation and unloading of mineral and waste rocks on surface	Yes	No	
a	Manual	√		
b	Tubs, mine cars, etc.	-	√	
c	Scraper, shovels, dumpers / trucks	√	-	
d	Conveyors (belt, chain, etc.)	-	√	
e	Others (specify)	-	√	
20	Mineral(s) transportation outside the ML area			
		Qty. (in tonne)	Percentage (%)	Length (in km)
a	Road	6,95,520 TPA	100	1.2
b	Rail	-	-	-
c	Conveyors	-	-	-

d	Rope way	-	-	-
e	Water ways	-	-	-
f	Pipeline	-	-	-
g	Others (Specify)	-	-	-
Total		6,95,520 TPA	100	1.2

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)

Site-specific meteorological data (Dec to Feb)

SL. No.	Parameter	Unit	Min	Max	average
1	Temperature	⁰ C	5.5	36	22
2	Wind Speed	m/s	0.5	8.8	2.75
3	Relative Humidity	%	32	69	45
4	Solar Radiation	w/m ²	5100	5500	5350
5	Rainfall	24 mm			
6	No. of Rainy days	5			
7	Wind Direction		North West		
8	Avrg Annual Rainfall	1028 mm			

* 24-hours rainfall should be reported from 08:30 hrs IST of previous day to 08:30 hrs IST of the day.

* Rainy day is considered when 24 hrs. rainfall is ≥ 2.5 mm.

** Visual observations of cloud cover should be recorded four times a day at regular intervals.

(iii) Indicate name and distance of the nearest IMD meteorological station from which climatological data have been obtained for reporting in the EIA report, if any.

(b) Ambient air quality data* (RPM, SPM, 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 Summer Season **(7th Dec 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
AAQ1	24		33.9	41.5	41.46	65.9	74.4	73.75	9.9	15.7	15.23	21.3	30	29.58	-	-	-
AAQ2	24		27	35.8	35.8	61.5	69.7	69.54	12.2	16.7	15.88	20.1	26.5	26.28	-	-	-
AAQ3	24		25.9	36.5	34.95	58.1	68	66.94	8.2	14.5	13.43	22.5	28.1	27.31	-	-	-
AAQ4	24		27.5	36.3	36.18	61	70.2	69.43	10.9	16.5	15.76	20.1	28.5	27.58	-	-	-
AAQ5	24		31	40.2	40.14	64.9	75.5	75.26	9.2	13	12.77	17.6	29.4	28.3	-	-	-
AAQ6	24		27.3	35.3	35.3	63.9	72.1	71.84	8.2	14.6	14.47	20	32.6	31.45	-	-	-
AAQ7	24		28.6	36.7	36.56	56.9	66.2	66.11	8.3	15.8	15.57	18.1	25.2	25.1	-	-	-
AAQ8	24		33	41.7	41.62	69.4	78.6	78.27	8.4	12.3	12.06	14.6	23.1	22.86	-	-	-

*R = Residential; I = Industrial; S = Sensitive

**Pb for mineral specific sites only.

Annex a location map indicating location of AAQ stations, their direction and distance with respect to project site.

22. Stack and emission details, if any*

Not Applicable

S. No.	Process / unit of operation (e.g. DG Set, Boiler)	Height of stack (m)	Internal top dia. (m)	Flue gas exit velocity (m/sec)	Emission rate (kg/hr)				Heat emission rate from top of stack (K.cal/hr)	Exhaust / Flue gas			
					SPM	SO ₂	NO _x	CO		Temp °C	Density	Specific Heat	Volumetric flow rate (m ³ /hr.)
	-	-	-	-	-	-	-	-	-	-	-	-	-

23. Details of fugitive emissions during mining operations*

Given in Chapter 4

24. Air Quality Impact Prediction (AQIP)*Not Applicable

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

S. No.	Pollutants	Incremental Value	Ambient Air Quality	(in µg/m ³)
				Resultant Air Quality
1.	SPM	4.653	74.4	79.053
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	0.4	0.4
5. Green Belt & Dust Suppression	5.7	5.7
6. Beneficiation	-	-
7. Washeries	-	-
8. Fire Service	-	-
9. Others (Mining and Allied Activities))	-	-
B. <u>Township</u>		
1. Green Belt	-	-
2. Domestic	-	-
C. Other (specify)	-	-
Total	6.1	6.1

26. Source of water supply*

S. No.	Source	m ³ /day
1	River (name)	-
2	Ground water	6.1
3	Mine water (sump / pit)	--
4	Other surface water bodies (water will be tapped from plant supply)	--

[*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	-	-	-	0.4		0.4
2	Irrigation	-	-		-		-
3	Industry	-	-		-		-
4	Mining	-	-	-	-		-
5	Others (Dust suppression+ Green belt)	-	-	-	5.7	-	5.7
Total		--	--	-	6.1	-	6.1

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	m3 /day	-	
d	Point of final discharge	-	
	Final Point	-	
1	Surface	-	
i	Agricultural land	-	
ii	Waste land	-	
iii	Forest land	-	
iv	Green belt	-	
2	River / nallah	-	
3	Lake	-	
4	Sea	-	
5	Others (specify)	-	
	Total	-	
e	Users of discharge water	Yes	No
i	Human		
ii	Livestock		
iii	Irrigation		
iv	Industry		
v	Others (specify)		
F	Details of the river / nalla, if final effluent is / will be discharged (cumecs)		
i	Average flow rate		
ii	Lean season flow rate		
iii	Aquatic life		
iv	Analysis of river water 100 meters upstream and 100 meters downstream of discharge point submitted.		
G	Township		
a	Waste water generation from township (m3/day)		
b	Are you planning to provide sewage treatment plant?		
C	Usage of treated water		
32.	Attach water balance statement in the form of a flow diagram indicating source (s), consumption (Section-wise) and output.		
	Given in chapter 2 of EIA report		
33	Ambient noise level leq dB(A)	Details given in Chapter III	
34	Solid Waste-	5.85 Kg/day	

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

	500KVA and above]				
a	Total power requirement				(in MW)
S. No.		Mine Site	Township	Others (specify)	Total
1	Present				
2	Proposed / additional				
Total					
b	Source of power				(in MW)
S. No.		SEB/Grid*	Captive power plant	DG Sets	
1	Present				
2	Proposed / additional				
Total					
[* Annex a copy of the sanction letter from the concerned authority]					
c	Details of fuels				
S.No.	Fuel	Daily Consumption (TPD)		Calorific value (Kcal/k g)	% 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			-	23.0 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			
80%			4-5 Feet			
ii	Proposed					

	No. of plant species to be planted	Number of saplings (per ha.)
	230	--
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	-	Insignificant amount of Municipal solid waste will be generated at the mining site such as paper pouch, Gutkha pouch and some food residue by working laborers only, for that separate bin will be provided at the mine site, which will be sent to the nearby community disposal facility on daily basis by laborers itself. No any other solid waste generated from the

			sand mining project
6.	Land degradation	-	The area is River bed, lease area will be used for collection of sand deposited by the Sone River and will be replenished gradually during succeeding rainy seasons.
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. 769.2/ lakh - (including auction cost).	

46. Cost of environmental protection measures (in Lakh)

Budget for EMP (Lakhs)			
Sl. No	Description	Capital Cost (lakh)	Recurring Cost (lakh)
A)Pollution Control & Dust Suppression			
i)	Water Sprinkling by tanker (Cost of Water Rs. 500/Tanker/day(Capacity 5.0 KL*1) (500*1*240)	-	1.2
ii)	Plantation with Gabion and salary for one gardener (part time basis).(230 Sampling)	4.6	1.0

iii)	PUC certification of vehicles and maintenance	-	0.10
iv)	Road Development and Maintenance	1.25	1.44
Sub Total(A)		5.85	3.74
B)Labor Welfare			
i)	Drinking Water Facility	-	1.0
ii)	Occupational health checkup in a year for 39 workers (@twice/year) @200*2*39 and onsite first aid set-up	0.50	0.15
iii)	Provision of PPEs (helmets, safety shoes, safety glasses, gloves etc. (39 x 3000)	1.2	0.60
iv)	Vocational training on mining methods and safe work practices (@twice/year)@ 250 x 2 x 39)	-	0.20
v)	Toilet 2 nos.(25000*2)	0.50	0.05
Sub Total(B)		2.2	2.0
C)Monitoring			
i)	Pollution Monitoring a) Air pollution b) Water pollution c) Soil Quality d) Noise Pollution	--	2.0
Sub Total(C)		-	2.0
D)Solid Waste Management			
i)	Bins 4 Nos.@ Rs. 1500 each	0.06	0.05
Sub Total (D)		0.06	0.05
E) Environmental Management Cell (E)		-	2.0
F) Public Hearing Commitment (F)			
i)	Infrastructure development (renovation of Building, Toilet, Drinking Water Facilities, Desk, Benches, Computers) in Ahiyapur Middle School.	-	10.0
ii)	Installation of solar street lights in 5 nearby village (Rs. 25,000 x 20 nos.)	-	5.0
iii)	Water purifier to the nearby schools, Primary Health Centers (PHCs) & Aganwadi centers (AWCs) in the nearby villages @Rs. 8000X5water purifiers	-	0.40
Sub Total(F)		-	15.40
Grand Total(A+B+C+D+E+F)		8.11	25.19

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

Sl. No	Activities	Estimated Cost In Lakh	Time Bound
1	Infrastructure development (renovation of Building, Toilet, Drinking Water Facilities, Desk, Benches, Computers) in Ahiyapur Middle School.	10.0	In 2 Year
2.	Installation of solar street lights in 5 nearby village (Rs. 25,000 x 20 nos.)	5.0	First year
3.	Water purifier to the nearby schools, Primary Health Centers (PHCs) & Aganwadi centers (AWCs) in the nearby villages @Rs. 8000X5water purifiers	0.40	First year
Total		15.4	

48. Public Hearing

a	Date of Advertisement	28.11.2024	
b	Newspapers in which the advertisement appeared	Dainik Jagran, Dainik Bhaskar	
c	Date of public hearing (DD/MM/YYYY)	03.01.2025	
d	Public Hearing Panel chaired by & members present	➤ ““ADM, Arwal” Shreemati Saida Khatun (Nominated by District Collector- Arwal) ➤ Shree Manoranjan Kumar Singh, Regional Officer, (BSPCB)Gaya	
e	No. of people attended the public hearing meeting and number of people from the lease area.	Around 34.	
f	Summary/details of public hearing in tabular form Given in chapter 7 of the EIA report.		
49	Whether the following approvals* (wherever	YES	NO
a	Site clearance from MoEF	-	√
b	Consent for Establishment’ from the State Pollution Control Board	-	√
c	NOC from Atomic Mineral Division	-	√

d	Mining plan approval from IBM / Ministry of Coal	√	-
e	In case of existing mines, mining scheme approval from IBM	-	√
f	Forestry clearance under FCA, 1980	-	√
g	NOC from Chief Controller of Explosives	-	√
h	Commitment regarding availability / pumping of water from the concerned Authorities	√	-
i	In case of ML area falling in notified areas of the Central Ground Water Authority, NOC from them.	-	√
[* Annex copies of approvals and number them]			
50	Was / is there any court case relating to the project or related activities? If so, provide	No	
