Annexure –I

Letter of Intent (LOI)

जिला खनन् कार्यालय, रोहतास, सासाराम।

पत्रांक–4525/खनन, सासाराम, दिनांक 30/11/22

प्रेषित,

वंशीधर कंस्ट्रक्शन प्रा0 लि0,
निदेशक–लालती देवी,
पिता–मेदनी राय,
पता–द्वितीय तल प्लॉट नं0–388/389,
बिस्कुट फैक्ट्री मोड़, नासरीगंज, पो0–दानापुर,
था0–दानापुर जिला–पटना।
पिन–80012
ई–मेल bcpl72@yahoo.com

विषय :– रोहतास जिलान्तर्गत सोन नदी के बालूघाट/ब्लॉक संख्या–01 की आगामी पाँच वर्षों के लिए बन्दोबस्ती हेतु दिनांक–19.10.2022 को सम्पन्न ई–नीलामी में उच्चतम् डाकवक्ता घोषित होने के फलस्वरूप सैद्धांतिक स्वीकृत्यादेश के संबंध में।

महाशय,

उपर्युक्त विषयक रोहतास जिलान्तर्गत सोन, कॉव, ठोरा नदी के **बालूघाट/ब्लॉक संख्या–01**, रकबा–**18.88** हेक्टेयर की आगामी पाँच वर्षों के लिए बन्दोबस्ती हेतु दिनांक–19.10.2022 को सम्पन्न ई–नीलामी में आपके द्वारा मो0–4,90,88,700/–के विरूद्ध **उच्चतम् डाक की राशि मो0–19,14,45,930/- (उन्नीस करोड़ चौदह लाख पैतालीस हजार नौ सौ तीस)** रूपये की बोली के फलस्वरूप उच्चतम् डाकवक्ता घोषित हुए। निविदा दस्तावेज की कंडिका–20 (i) के आलोक में आपके द्वारा नीलामी राशि की 25 प्रतिशत राशि (जमा अग्रधन राशि समायोजनोपरान्त) **प्रतिभूति राशि मो0–3,55,89,307.5/- (तीन करोड़ पचपन लाख नवासी हजार तीन सौ सात रूपया पचास पैसा)** के भुगतान का साक्ष्य दिनांक–30.11.2022 को कार्यालय में प्रस्तुत किया गया है।

निविदा दस्तावेज की कंडिका 20(i)(ii)(iii)(iv)(v) के आलोक में जिलान्तर्गत सोन नदी के **बालूघाट/ब्लॉक संख्या–01 का सैद्धांतिक स्वीकृति** के शर्त एवं बंधेज निम्नवत् हैं :–

1. बालूघाट/ब्लॉक संख्या–01 से संबंधित विवरणी निम्नवत् है :–

क्र0	नदी का नाम	बालूघाट/ ब्लॉक संख्या	कुल रकबा (है0)	Geo-co-ordinates	
				LATITUDE	LONGITUDE
1	SON, Kow, Thora	Block-1/ Mahadewa	17.83	25°4'30.904" N	84°24'37.491"E
				25°4'35.362" N	84°24'42.587"E
				25°4'34.739" N	84°24'43.455"E
				25°4'33.412" N	84°24'41.714"E
				25°4'32.280" N	84°24'40.194"E
				25°4'31.481" N	84°24'39.104"E
				25°4'30.615" N	84°24'37.934"E
				25°4'29.315" N	84°24'36.174"E
				25°4'28.262" N	84°24'34.750"E
				25°4'25.857" N	84°24'31.500"E
				25°4'23.861" N	84°24'28.878"E
				25°4'23.489" N	84°24'28.372"E
				25°4'21.364" N	84°24'23.418"E
				25°4'19.979" N	84°24'21.863"E

Scanned with CamScanner

				25°4'17.645" N	84°24'17.596"E
				25°4'15.571" N	84°24'13.744"E
				25°4'14.428" N	84°24'11.536"E
				25°4'13.633" N	84°24'10.254"E
				25°4'12.048" N	84°24'7.309"E
				25°4'10.685" N	84°24'0.845"E
				25°4'9.747" N	84°23'51.734"E
				25°4'7.454" N	84°23'41.683"E
				25°4'5.730" N	84°23'33.341"E
				25°4'5.665" N	84°23'26.969"E
				25°4'8.493" N	84°23'31.007"E
				25°4'12.696" N	84°23'37.245"E
				25°4'11.893" N	84°23'50.619"E
				25°4'12.027" N	84°23'52.139"E
				25°4'12.423" N	84°23'55.519"E
				25°4'13.172" N	84°23'59.073"E
				25°4'15.145" N	84°24'9.068"E
				25°4'21.693" N	84°24'20.178"E
				25°4'23.375" N	84°24'23.395"E
				25°4'26.326" N	84°24'28.868"E
				25°4'29.711" N	84°24'35.263"E
				25°4'30.904" N	84°24'37.491"E
		KOW 01	Itawa	25° 1' 47.799" N	84° 9' 0.575" E
				25° 1' 47.515" N	84° 9' 1.072" E
				25° 1' 47.714" N	84° 9' 2.222" E
				25° 1' 47.519" N	84° 9' 1.949" E
				25° 1' 47.326" N	84° 9' 1.733" E
				25° 1' 47.229" N	84° 9' 1.475" E
				25° 1' 47.265" N	84° 9' 1.213" E
				25° 1' 47.316" N	84° 9' 1.071" E
				25° 1' 47.667" N	84° 9' 0.752" E
				25° 1' 47.750" N	84° 9' 0.601" E
				25° 1' 47.799" N	84° 9' 0.575" E
		KOW 02	Bagha Khoh	25° 1' 35.914" N	84° 11' 8.892" E
				25° 1' 36.039" N	84° 11' 8.853" E
				25° 1' 36.638" N	84° 11' 7.603" E
				25° 1' 36.859" N	84° 11' 7.349" E
				25° 1' 37.178" N	84° 11' 7.282" E
				25° 1' 37.576" N	84° 11' 7.352" E
				25° 1' 37.797" N	84° 11' 7.498" E
				25° 1' 38.014" N	84° 11' 7.833" E
				25° 1' 38.094" N	84° 11' 8.554" E
				25° 1' 38.004" N	84° 11' 8.742" E
				25° 1' 38.034" N	84° 11' 8.353" E
				25° 1' 37.990" N	84° 11' 8.115" E
				25° 1' 37.900" N	84° 11' 7.924" E
				25° 1' 37.700" N	84° 11' 7.734" E

Scanned with CamScanner

				25° 1' 37.395" N	84° 11' 7.632" E
				25° 1' 37.077" N	84° 11' 7.666" E
				25° 1' 36.742" N	84° 11' 7.831" E
				25° 1' 36.579" N	84° 11' 8.047" E
				25° 1' 36.517" N	84° 11' 8.466" E
				25° 1' 36.357" N	84° 11' 8.742" E
				25° 1' 36.003" N	84° 11' 8.923" E
				25° 1' 35.914" N	84° 11' 8.892" E
	KOW 03	Chit Bisawan	0.09	25° 1' 59.449" N	84° 11' 36.159" E
				25° 1' 59.759" N	84° 11' 36.235" E
				25° 2' 0.213" N	84° 11' 36.447" E
				25° 2' 0.651" N	84° 11' 36.822" E
				25° 2' 0.924" N	84° 11' 37.235" E
				25° 2' 1.092" N	84° 11' 37.693" E
				25° 2' 0.379" N	84° 11' 37.286" E
				25° 1' 59.664" N	84° 11' 37.037" E
				25° 1' 59.570" N	84° 11' 36.845" E
				25° 1' 59.591" N	84° 11' 36.812" E
				25° 1' 59.544" N	84° 11' 36.415" E
				25° 1' 59.449" N	84° 11' 36.159" E
	KOW 04.1	Suara	0.08	25° 2' 19.621" N	84° 11' 40.688" E
				25° 2' 19.841" N	84° 11' 40.920" E
				25° 2' 20.809" N	84° 11' 41.259" E
				25° 2' 21.298" N	84° 11' 41.258" E
				25° 2' 20.970" N	84° 11' 41.590" E
				25° 2' 20.488" N	84° 11' 41.777" E
				25° 2' 20.188" N	84° 11' 41.799" E
				25° 2' 19.955" N	84° 11' 41.743" E
				25° 2' 19.654" N	84° 11' 41.548" E
				25° 2' 19.561" N	84° 11' 40.978" E
				25° 2' 19.621" N	84° 11' 40.688" E
	KOW 04.2	Kusadhar	0.04	25° 2' 25.964" N	84° 11' 39.967" E
				25° 2' 26.069" N	84° 11' 39.818" E
				25° 2' 26.364" N	84° 11' 39.649" E
				25° 2' 26.650" N	84° 11' 39.708" E
				25° 2' 26.952" N	84° 11' 40.005" E
				25° 2' 27.191" N	84° 11' 40.390" E
				25° 2' 27.310" N	84° 11' 41.036" E
				25° 2' 26.932" N	84° 11' 40.406" E
				25° 2' 26.520" N	84° 11' 39.933" E
				25° 2' 25.964" N	84° 11' 39.967" E
	KOW 04.3	Kusadhar	0.36	25° 2' 31.813" N	84° 11' 42.005" E
				25° 2' 31.407" N	84° 11' 42.351" E
				25° 2' 30.817" N	84° 11' 42.763" E
				25° 2' 30.260" N	84° 11' 43.005" E
				25° 2' 29.886" N	84° 11' 42.993" E
				25° 2' 29.362" N	84° 11' 42.827" E
				25° 2' 28.877" N	84° 11' 42.588" E

Scanned with CamScanner

			25° 2' 28.486" N	84° 11' 42.149" E
			25° 2' 28.107" N	84° 11' 41.592" E
			25° 2' 27.924" N	84° 11' 41.104" E
			25° 2' 28.433" N	84° 11' 41.302" E
			25° 2' 29.250" N	84° 11' 41.343" E
			25° 2' 30.063" N	84° 11' 41.263" E
			25° 2' 31.813" N	84° 11' 42.005" E
KOW 04.4	Kusadhar	0.03	25° 2' 39.664" N	84° 11' 49.320" E
			25° 2' 40.081" N	84° 11' 49.623" E
			25° 2' 40.702" N	84° 11' 50.232" E
			25° 2' 41.046" N	84° 11' 50.416" E
			25° 2' 40.957" N	84° 11' 50.459" E
			25° 2' 40.030" N	84° 11' 50.109" E
			25° 2' 39.658" N	84° 11' 49.408" E
			25° 2' 39.664" N	84° 11' 49.320" E
KOW 05	Bikramganj	0.01	25° 12' 37.175" N	84° 16' 16.333" E
			25° 12' 37.291" N	84° 16' 16.252" E
			25° 12' 37.597" N	84° 16' 16.211" E
			25° 12' 37.943" N	84° 16' 16.224" E
			25° 12' 38.048" N	84° 16' 16.284" E
			25° 12' 38.137" N	84° 16' 16.386" E
			25° 12' 38.089" N	84° 16' 16.463" E
			25° 12' 37.846" N	84° 16' 16.380" E
			25° 12' 37.383" N	84° 16' 16.312" E
			25° 12' 37.175" N	84° 16' 16.333" E
KOW 06	Dhangain	0.03	25° 13' 36.713" N	84° 14' 31.338" E
			25° 13' 36.765" N	84° 14' 31.245" E
			25° 13' 37.136" N	84° 14' 31.237" E
			25° 13' 37.323" N	84° 14' 31.326" E
			25° 13' 37.438" N	84° 14' 31.471" E
			25° 13' 37.510" N	84° 14' 31.657" E
			25° 13' 37.598" N	84° 14' 32.065" E
			25° 13' 37.532" N	84° 14' 32.134" E
			25° 13' 37.465" N	84° 14' 32.105" E
			25° 13' 37.446" N	84° 14' 32.072" E
			25° 13' 37.304" N	84° 14' 31.998" E
			25° 13' 37.088" N	84° 14' 31.761" E
			25° 13' 36.713" N	84° 14' 31.338" E
KOW 07	Parariya	0.02	25° 17' 29.808" N	84° 15' 36.312" E
			25° 17' 29.210" N	84° 15' 36.420" E
			25° 17' 28.518" N	84° 15' 36.933" E
			25° 17' 28.971" N	84° 15' 36.279" E
			25° 17' 29.153" N	84° 15' 36.180" E
			25° 17' 29.808" N	84° 15' 36.312" E
Thora 1.1	Dharkanha	0.07	25° 21' 7.032" N	84° 10' 31.231" E
			25° 21' 6.754" N	84° 10' 31.399" E
			25° 21' 6.540" N	84° 10' 31.612" E
			25° 21' 6.298" N	84° 10' 31.629" E

Scanned with CamScanner

				25° 21' 5.928" N	84° 10' 31.484" E
				25° 21' 5.654" N	84° 10' 31.377" E
				25° 21' 5.435" N	84° 10' 31.191" E
				25° 21' 5.368" N	84° 10' 30.940" E
				25° 21' 5.392" N	84° 10' 30.580" E
				25° 21' 5.453" N	84° 10' 30.342" E
				25° 21' 5.735" N	84° 10' 30.242" E
				25° 21' 5.885" N	84° 10' 30.225" E
				25° 21' 5.723" N	84° 10' 30.441" E
				25° 21' 5.746" N	84° 10' 30.725" E
				25° 21' 5.915" N	84° 10' 30.990" E
				25° 21' 6.239" N	84° 10' 31.140" E
				25° 21' 6.618" N	84° 10' 31.234" E
				25° 21' 7.032" N	84° 10' 31.231" E
	Thora 1.2	Dharkanha	0.02	25° 21' 7.068" N	84° 10' 29.932" E
				25° 21' 6.833" N	84° 10' 30.127" E
				25° 21' 6.583" N	84° 10' 30.102" E
				25° 21' 6.423" N	84° 10' 30.053" E
				25° 21' 5.894" N	84° 10' 29.842" E
				25° 21' 6.318" N	84° 10' 29.805" E
				25° 21' 7.068" N	84° 10' 29.932" E
	Thora 2	Dharkanha	0.18	25° 21' 3.244" N	84° 10' 28.089" E
				25° 21' 3.255" N	84° 10' 28.364" E
				25° 21' 3.537" N	84° 10' 28.359" E
				25° 21' 3.707" N	84° 10' 28.808" E
				25° 21' 3.869" N	84° 10' 29.304" E
				25° 21' 3.860" N	84° 10' 29.754" E
				25° 21' 3.681" N	84° 10' 29.754" E
				25° 21' 3.249" N	84° 10' 30.246" E
				25° 21' 2.819" N	84° 10' 30.106" E
				25° 21' 2.464" N	84° 10' 29.636" E
				25° 21' 2.659" N	84° 10' 28.605" E
				25° 21' 3.075" N	84° 10' 28.307" E
				25° 21' 3.244" N	84° 10' 28.089" E
	Thora 3	Jamsona	0.03	25° 20' 31.322" N	84° 10' 37.303" E
				25° 20' 31.153" N	84° 10' 37.624" E
				25° 20' 30.555" N	84° 10' 38.048" E
				25° 20' 30.362" N	84° 10' 37.875" E
				25° 20' 29.533" N	84° 10' 37.699" E
				25° 20' 29.981" N	84° 10' 37.614" E
				25° 20' 30.245" N	84° 10' 37.622" E
				25° 20' 30.832" N	84° 10' 37.556" E
				25° 20' 31.322" N	84° 10' 37.303" E

2	वन क्षेत्र से दूरी–	35.80 किलो मीटर
3	सुरक्षित क्षेत्र/वन अभ्यारण क्षेत्र/पक्षी अभ्यारण/वन्य जीव आश्रयण क्षेत्र से दूरी	लागू नहीं
4	खनन योग्य मात्रा–	333558 घनमीटर

Scanned with CamScanner

2. भुगतान की शर्तें :–

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

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

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

3. GST का भुगतान :– जी0एस0टी0 के रूप में प्रचलित दर के अनुसार राशि वाणिज्य कर विभाग को भुगतान करना होगा। जिला खनन् कार्यालय, रोहतास, सासाराम में जी0एस0टी0 भुगतान का प्रमाण प्रत्येक किस्त के साथ देना होगा।

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

5. जिला खनिज फाउन्डेशन :– Bihar Mineral District Foundatin Rules, 2018 के अनुसार बंदोबस्ती राशि की दो (2) प्रतिशत राशि जिला खनिज फाउण्डेशन, रोहतास, सासाराम के नाम भुगतेय बैंक ड्राफ्ट के माध्यम से करना होगा।

6. वैधानिक अनापत्ति :– बालूघाट संचालन हेतु आवश्यक समस्त वैधानिक अनापत्ति/अनुमति यथा:– खनन योजना, पर्यावरणीय स्वीकृति, जल एवं वायू सहमति आदि आपके द्वारा सैद्धांतिक स्वीकृत्यादेश (LOI) निर्गत तिथि से तीन माह की अवधि के अन्दर प्राप्त करना सुनिश्चित करेंगे। वैधानिक अनापत्ति/अनुमति प्राप्त करने के पश्चात् ही बालू खनन प्रारंभ किये जाने हेतु कार्यादेश निर्गत किया जा सकेगा। वैधानिक अनापत्ति/अनुमति निम्नानुसार है:–

i. खनन योजना:– खनन योजना प्रभावी नियमों मे 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 इंटेंट निर्गत होने से 30 दिनों के अन्दर अनुमोदन के लिए प्रस्तुत करेगा। खनन योजना बनाने पर होने वाले व्यय का वहन संबंधित खनिज डाकवक्ता/बंदोबस्तधारी द्वारा किया जायेगा। साथ ही खनन योजना की जॉच हेतु समाहर्त्ता/विभाग अन्य ऐजेंसी चयनित कर सकेगा, जिसका निर्धारित फीस/खर्च भी बंदोबस्तधारी को ही वहन करना होगा। सफल डाकवक्ता/बंदोबस्तधारी खनन योजना के अनुसार खनन करना सुनिश्चित करेंगे।

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

Scanned with CamScanner

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

iv. **खनन के लिए अनुमत मात्रा:–** खनन योजना, पर्यावरणीय स्वीकृति तथा जल (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1974 तथा वायु (प्रदूषण निवारण एवं नियंत्रण) अधिनियम, 1981 के तहत प्राप्त सहमति मे 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 है या प्राप्त करने में रूचि नहीं लेते है तो, समाहर्त्ता द्वारा अग्रधन राशि जप्त कर पुनः नीलामी की कार्रवाई की जायगी।

7. <u>बंदोबस्ती विलेख/पट्टा संविदा (डीड) निष्पादन करना :–</u>

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

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

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

9. <u>सामान्य शर्तें :–</u>

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

   (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। बालूघाटो/नदी तल तक बालू के परिवहन के प्रयोजनार्थ पहुँच–पथ (अप्रोच रोड) का निर्माण सफल डाकवक्ता/बंदोबस्तधारी द्वारा स्वयं अपने खर्च से किया जाएगा।

   (iv) बालूघाट की सुरक्षा की जिम्मेदारी सफल डाकवक्ता/बंदोरतधारी की होगी।

   (v) सफल डाकवक्ता/बंदोबस्तधारी बंदोबस्त क्षेत्र के भीतर किसी अवैध खनन के लिए जिम्मेवार होगें और पाई गई किसी शिकायत पर गंभीरता से विचार किया जाएगा तथा सफल डाकवक्ता/बंदोबस्तधारी के विरूद्ध नियमानुसार कार्रवाई की जायगी।

   (vi) सफल डाकवक्ता/बंदोबस्तधारी समाहर्त्ता द्वारा बालूघाटों के संचालन के संबंध में लोकहित में जारी निर्बंधनों और शर्त्तों तथा निदेशों का पालन करेगा।

   (vii) यथोक्त शर्त्तों, बंधेजों एवं निर्बंधनों का पालन नहीं करने पर कारण पृच्छा 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 सफल डाकवक्ता/बंदोबस्तधारी द्वारा बकाया का

Scanned with CamScanner

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 सगाहर्त्ता, रोहतास, सासाराम/जिला खनन कार्यालय, रोहतास, सासाराम का होगा। बालूघाटों का सीमांकन एवं नियमानुसार निर्धारित आयाम/विशिष्टियों का सीमा स्तंभ का अधिष्ठापन GPS Co-ordinate के अनुसार बालू बंदोबस्तधारी को कराना होगा तथा खनन के क्रम में संधारित कराना सफल डाकवक्ता/बंदोबस्तधारी की जवाबदेही होगी, जिसे RQP/अंचलाधिकारी की उपस्थिति में प्रमाणित कर बालूघाटों के निर्धारित क्षेत्र का Reduced Level (RL)/Pre-Level (PL) एवं Satellite images खनन कार्य प्रारंभ करने के पहले जिला खनन कार्यालय, रोहतास, सासाराम में समर्पित करना होगा।

(x) बालघाट से लिंक रोड और बालूघाट के बीच कोई प्राकृतिक जल मार्ग सिंचाई नहर पडती हो सफल डाकवक्ता/बन्दोबस्तधारी जल ससांधन विभाग की पूर्व अनुमति से अस्थायी संरचनाएँ खडा कर सकेगा। पूर्व अनुमति के लिए ऐसे आवदेन जल संसाधन विभाग के संबंधित मुख्य अभियंता के समक्ष दिए जाएगें।

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

खनिज विकास पदाधिकारी
रोहतास/सासाराम।
24.11.22

Scanned with CamScanner

Annexure –II

(Mine Plan Approval Letter)

बिहार सरकार,
खान एवं भूतत्व विभाग।

पत्रांक– 1784 /एम0, पटना, दिनांक– 31/3/2023

प्रेषक,

सुरेश प्रसाद,
विशेष कार्य पदाधिकारी।

सेवा में,

Email

वंशीधर कंस्ट्रक्शन प्रा0 लि0,
निदेशक लालती देवी,
पिता–मेदनी राय,
पता–द्वितीय तल प्लॉट नं0–388/389,
बिस्कुट फैक्ट्री मोड़, नासरीगंज, पो0–दानापुर,
था0–दानापुर जिला–पटना।
पिन–800012
ई–मेल bcpl72@yahoo.com

विषय.– **रोहतास जिला के सोन नदी बालूघाट/ब्लॉक– 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 प्रावधानो के तहत् **रोहतास जिला के सोन नदी/ब्लॉक–01** से संबंधित समर्पित खनन योजना के अनुमोदन पर प्राधिकृत समिति द्वारा समीक्षा की गई। समीक्षोपरांत निम्न शर्त्तों एवं बंधेजों के तहत् खनन योजना अनुमोदित की जाती है –

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

P.T.O.

7. खनन योजना मे वर्णित सभी तकनीकि तथा अन्य बिन्दुओं से संबंधित आँकड़ों की सत्यता / शुद्धता की जिम्मेवारी ROP/बंदोबस्तधारी की होगी तथा भविष्य में उपर्युक्त के संबंध में किसी प्रकार की भिन्नता / अनियमितता की पूरी जवाबदेही ROP/बंदोबस्तधारी की होगी।

8. खनन् कार्य के दौरान घाट संचालनकर्ता द्वारा पर्यावरण सबंधी 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 / रुकावट / बदलाव करना पूर्ण रूप से प्रतिबंधित होगा।

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

10. यद्यपि खनन योजना मे Semi-mechanised mining को प्राथमिकता दी गयी है तथापि Manual Mining पर कोइं 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, R[/P], प्राप्त करना एवं उसे खनन के क्रम में संधारित कराना सफल डाकवक्ता / बंदोबस्तधारी की जवाबदेही होगी, जिसे ROP / अचलाधिकारी 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 सबंधित ROP द्वारा प्रत्येक पृष्ठ पर हस्ताक्षरित होगी, निदेशक, खान एवं भूतत्व विभाग के कार्यालय के अतिरिक्त समाहर्त्ता, रोहतास के गोपनीय कोषांग, उपनिदेशक, पटना अंचल, पटना के कार्यालय में उपलब्ध कराना सुनिश्चित किया जायेगा, ताकि किसी भी समय इसकी जाँच की जा सके।

प्राधिकृत समिति की अनुशंसा के आलोक में उपरोक्त शर्त्तों के साथ **रोहतास सोन नदी बालूघाट / ब्लॉक– 01** से संबंधित समर्पित खनन योजना के अन्तर्गत ही बालू उत्खनन कार्य सुनिश्चित कराया जायेगा।

विश्वासभाजन

21.3.2023

(सुरेश प्रसाद)
विशेष कार्य पदाधिकारी

Annexure –III

(Public Hearing Proceedings)

बिहार राज्य प्रदूषण नियंत्रण पर्षद्

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

पटना, दिनांक:

पत्रांक:

प्रेषक,

एस0 चन्द्रशेखर,भा0प्र0से0
सदस्य–सचिव

सेवा में,

सदस्य सचिव,
राज्य पर्यावरण समाघात निर्धारण प्राधिकरण,
बेल्ट्रोन भवन, भाास्त्री नगर,
पटना–800023.

विषयः मेसर्स बंशीधर कंस्ट्रशन प्रा.लि., निदेशक– श्रीमति लालती देवी, पिता–श्री मेदनी राय, पता–दूसरी मंजिल न0–388–388/389, बिस्किट फैक्ट्री मोड़, नासरीगंज, पोस्ट+थाना–दानापुर, पटना द्वारा रोहतास सोन, कांव ठोरा घाट ब्लॉक–01 बालू घाट, मौजा–महादेवा, इटावा, बाघा, खोह, चित बिसवां, सौरा, कुसाधार, धरूपुर, धनगैन, परिया, धारकखाना, जामसोना, प्रखंड–नासरीगंज, नोखा, दावत, सुनयपुरा, बिक्रमगंज, राजपुर, अकोढ़ीगोल, जिला–रोहतास 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 मेसर्स बंशीधर कंस्ट्रशन प्रा.लि., निदेशक– श्रीमति लालती देवी, पिता–श्री मेदनी राय, पता–दूसरी मंजिल न0–388–388/389, बिस्किट फैक्ट्री मोड़, नासरीगंज, पोस्ट+थाना–दानापुर, पटना द्वारा रोहतास सोन, कांव ठोरा घाट ब्लॉक–01 बालू घाट, मौजा–महादेवा, इटावा, बाघा, खोह, चित बिसवां, सौरा, कुसाधार, धरूपुर, धनगैन, परिया, धारकखाना, जामसोना, प्रखंड–नासरीगंज, नोखा, दावत, सुनयपुरा, बिक्रमगंज, राजपुर, अकोढ़ीगोल, जिला–रोहतास से बालू खनन हेतु प्राप्त आवेदन के आलोक में दिनांकः 21.06.2023 पूर्वाह्न 11:00 बजे सम्पन्न लोक सुनवाई का वृत, उपस्थिति पंजी एवं संबंधित सी0 डी0 की प्रति संलग्न कर अग्रेतर कारवाई हेतु भेजी जा रही है।

अनुलग्नकः यथोपरि।

विश्वासभाजन
ह0/–
(एस0 चन्द्रशेखर)
सदस्य–सचिव

Scanned with OKEN Scanner

ज्ञापांक :–

पटना, दिनांक :–

प्रतिलिपि:– जिला पदाधिकारी, रोहतास को सूचनार्थ एवं आवश्यक कारवाई हेतु प्रेषित।

अनुलग्नक: यथोपरि।

ह0/–
(एस0 चन्द्रशेखर)
सदस्य–सचिव

ज्ञापांक :–

पटना, दिनांक :–

प्रतिलिपि:– मेसर्स बंशीधर कंस्ट्रशन प्रा.लि., निदेशक– श्रीमति लालती देवी, पिता–श्री मेदनी राय, पता–दूसरी मंजिल न0–388–388/389, बिस्किट फैक्ट्री मोड़, नासरीगंज, पोस्ट+थाना–दानापुर, पटना को सूचनार्थ प्रेषित।

अनुलग्नक: यथोपरि।

ह0/–
(एस0 चन्द्रशेखर)
सदस्य–सचिव

ज्ञापांक :– 1234

पटना, दिनांक :– 10-07-23

प्रतिलिपि:–श्री नीरज कुमार, सहायक प्रोग्रामर, बि. रा. प्र. नि. पर्षद, पटना को निदेश है कि दिनांक 21.06.2023 को की गई लोक सुनवाई का वृत, उपस्थिति पंजी एवं संबंधित सी0 डी0 की प्रति पर्षद के वेबसाईट पर डिसप्ले कराया जाय।

अनुलग्नक: यथोपरि।

08/7/23
(एस0 चन्द्रशेखर)
सदस्य–सचिव

Scanned with OKEN Scanner

लोकसुनवाई का वृत।

मेसर्स बंशीधर कंस्ट्रक्शन प्रा.लि., निदेशक– श्रीमती लालती देवी, पिता– श्री मेदनी राय, पता–दूसरी मंजिल नं.–388/389, बिस्किट फैक्ट्री मोड़, नासरीगंज, पोस्ट–दानापुर, थाना–दानापुर, पटना द्वारा रोहतास सोन, कांव ठोरा घाट ब्लॉक–01 बालू घाट मौजा–महादेवा, इटावा, बाघा, खोह, धित बिसवां, सौरा, कुसाधार, धरूपुर, धनगैन, पररिया, धारकखाना, जामसोना, प्रखंड–नासरीगंज, नोखा, दावत, सुनयपुरा, बिक्रमगंज, राजपुर, अकोढ़ीगोल, जिला–रोहतास के अन्तर्गत परियोजना से संबंधित पर्यावरणीय स्वीकृति के वास्ते पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के अधिसूचना सं0–एस.ओ.1533,दिनांक 14 सितम्बर, 2006 के तहत् दिनांक 21.06.2023 को पूर्वाह्न 11:00 बजे अंचल कार्यालय नासरीगंज, नासरीगंज, जिला–रोहतास में लोक सुनवाई की गयी।

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार अधिसूचना सं0–एस.ओ. 1533, दिनांक 14 सिम्बर 2006 एवं यथा संशोधित के तहत् राज्य स्तरीय पर्यावरणीय समाघात निर्धारण प्राधिकरण, बिहार के द्वारा निर्गत TOR File.No.SIA/1(a)/2366/2023, dated 25.04.2023 के आलोक में श्री चन्द्रषेखर प्रसाद सिंह, अपर समाहर्त्ता–सह–अपर जिला दण्डाधिकारी, रोहतास (जिला पदाधिकारी, रोहतास के प्रतिनिधि) की अध्यक्षता में बिहार राज्य प्रदूषण नियंत्रण पर्षद, द्वारा दिनांक 21.06.2023 को पूर्वाह्न 11:00 बजे अंचल कार्यालय नासरीगंज, नासरीगंज, जिला–रोहतास 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 प्रभात खबर , टाइम्स ऑफ इंडिया के माध्यम से दिनांक 17.05.2023 को प्रकाशित की गयी थी (**प्रतिलिपि संलग्न**)। लोक–सुनवाई के दौरान श्री सैन कुमार, क्षेत्रीय पदाधिकारी, बिहार राज्य प्रदूषण नियंत्रण पर्षद, पूर्णियाँ द्वारा लोक–सुनवाई में उपस्थित जन–समुदाय एवं सभी संबंधित पदाधिकारियों का स्वागत करते हुए पर्यावरण, वन एवं जलवायु परिवर्त्तन मंत्रालय, भारत सरकार द्वारा अधिसूचित पर्यावरण प्रभाव मूल्यांकन अधिसूचना सं0–एस.ओ.1533, दिनांक 14 सितम्बर 2006 एवं यथा संषोधित के तहत् इकाई के पर्यावरणीय स्वीकृति हेतु लोक–सुनवाई की पृष्ठ–भूमि पर प्रकाश डाला गया। लोक हित में कार्य योजना से संबंधित सुनवाई के उद्देष्य से उपस्थित लोगों को अवगत कराया गया। साथ ही स्थानीय लोगों से पर्यावरण संरक्षण एवं लोक हित के संबंध में सुझाव/विचार/मंतव्य माँगा गया।

लोक सुनवाई कार्यक्रम के अध्यक्ष के अनुमति से परियोजना के पर्यावरणीय सलाहकार श्री रवि रंजन कुमार ने इकाई की खनन कार्य परियोजना, प्रदूषण नियंत्रण व्यवस्था एवं कॉरपोरेट पर्यावरण जिम्मेदारी (Corporate Environmental Responsibility) आदि के संबंध में आमजनों को विस्तृत रूप से अवगत कराया। इनके द्वारा सूचित किया गया कि खनन कार्य के उपरान्त परिवहन के दौरान उत्सर्जित होने वाले धूल–कण की रोक–थाम हेतु सड़को पर नियमति रूप से जल छिड़काव किया जायेगा। वाहनों पर ओवर लोडिंग नही की जायेगी। वाहनों को तिरपाल से ढ़क करले जाया जायेगा। खनन कार्य सतह से 3 मीटर की गहराई तक या भू–जल स्तर से ऊपर तक किया जायेगा। ध्वनि

Scanned with OKEN Scanner

प्रदूषण को नियंत्रित करने हेतु ध्वनि यंत्र (हार्न) का न्यूनतम उपयोग किया जायेगा। पुराने एवं खराब वाहनों का इस्तेमाल नहीं किया जायेगा। सड़क के किनारे एवं खनन पट्टा क्षेत्र में वृक्षारोपण (180 नं0) का कार्य किया जायेगा। बालू खनन के दौरान पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के Sutainable Sand Mining Management Guidelines 2016 (SSMG-2016) एवं Enforcement & Monitoring Guidelines for Sand Mining-2020 (EMGSM-2020) के प्रावधानों का अनुपालन किया जायेगा।

परियोजना प्रस्तुतति करण के पष्चात् उपस्थित महानुभावों द्वारा दिए गए सुझाव/मंतव्य निम्नवतः हैः—

कमांक	नाम एवं पता	प्रतिकिया/सुझाव
1.	श्री सुधांशु कुमार, ग्राम—महादेवा, जिला—रोहतास।	इनके द्वारा सुझाव दिया गया कि बालू परिवहन के दौरान नियमित रूप से रोड पर पानी का छिड़काव किया जाना चाहिए।
2.	श्री विनोद चौधरी, पिता—श्री राजाराम चौधरी, ग्राम—महादेवा, जिला—रोहतास।	इनके द्वारा सुझाव दिया गया कि बालू खनन के दौरान नियमित रूप से जल का छिड़काव किया जाय। सड़क के किनारे वृक्षारोपण किया जाय। बालू का परिवहन इस ढ़ग से किया जाय कि गाँव के लोगों को परेषानी न हो।
3.	श्री कुमार आकाष पिता—श्री विनोद चौधरी, ग्राम—महादेवा, जिला—रोहतास।	इनके द्वारा सुझाव दिया गया कि गिले बालू का परिवहन करने से रास्ते पर पानी गिरने से परेषानी होती है। सड़क के किनारे वृक्षारोपण किया जाय तथा नियमित रूप से जल छिड़काव किया जाय। पर्यावरणीय सलाहकार द्वारा बताया गया कि सूखे बालू का ही परिवहन ढ़ककर किया जायेगा। ओभर—लोडिंग नहीं किया जाय। नदी किनारे एवं रोड दोनों किनारे पर वृक्षारोपण किया जायेगा।

अध्यक्ष द्वारा बताया गया कि वाहनों से बालू ले जाने के क्रम में नियमित रूप से परिवहन मार्ग पर जल छिड़काव करेगें एवं बालू से लदे वाहनों का तिरपाल से ढ़क कर ही ले जायेगें। बालू की खुदाई 3 मीटर ही करेगें। उन्होने उम्मीद जताया कि इकाई प्रबंधन द्वारा इन उपरोक्त बिन्दुओं पर गम्भीरता से ध्यान रखा जायेगा। साथ ही वैज्ञानिक तरीके से बालू खनन का कार्य एवं विभागीय निर्देश का अनुपालन किया जायेगा। सोन नदी भी रोहतास जिला के आर्थिक समृद्धि का एक महत्वपूर्ण अंग है। यह राज्य के लिए अक्षय निधि है, तथा निर्माण कार्य हेतु महत्वपूर्ण इकाई है।

Scanned with OKEN Scanner

5–6 फीट बड़ा पेड़ लगाया जाय, ताकि 5 साल में बड़ा हो जाय। छायादार एवं फलदार पेड़ बरगद, पीपल, आम–जामुन, नीम का पेड़ लगाये जायें। उन्होंने कम–से–कम 2000 पेड़ लगाने का सुझाव दिये, जिसमें कम–से–कम 1000 आम का पेड़ लगाने का भी सुझाव दिए। पौधो का रख–रखाव स्थानीय ग्रामीणों के द्वारा भी किये जाने का सुझाव दिया गया।

उनके द्वारा बताया गया कि खनन परियोजना से सरकार को राजस्व की प्राप्ति होती है, जिससे जनहित में विकासात्मक कार्य होता है। अतः जनता को इस कार्य में अपेक्षित सहयोग करना चाहिए। स्थानीय लोगों ने खनन कार्य में सहयोग करने का भरोसा दिलाया। संवेदक का प्रदूषण नियंत्रण के उपायों को अपनाकर प्रदूषण को कम–से–कम करने हेतु सुझाव दिया गया। संवेदक द्वारा प्रदूषण नियंत्रण हेतु उपायों का अनुपालन नहीं करने के स्थिति में ग्रामीण जनता अचंलाधिकारी, नासरीगंज को भी शिकायत कर सकती हैं। उनके द्वारा भी नियमानुकूल यथोचित कार्रवाई की जायेगी।

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।

2-2-23
क्षेत्रीय पदाधिकारी
बि.रा.प्र.नि.पर्षद,पूर्णियाँ

7/2/23
अपर समाहर्त्ता–सह–
अपर जिला दण्डाधिकारी,
रोहतास, सासाराम।

Scanned with OKEN Scanner

मेसर्स बंशीधर कंस्ट्रक्शन प्रा. लि., प्रो०-श्रीमति लालती देवी द्वारा रोहतास सोन, कांव ठोरा घाट ब्लॉक-01 बालू घाट, मौजा-महादेव, इटावा, बाधा, खोह, चित बिसयां, सीरा, कुसाधार, धरूपुर, धनगैन, परिया, धारकखाना, जमसोना, अंचल-नासरीगंज, नोखा, दावत, सुनयपुरा, बिक्रमगंज, राजपुर, अकोढ़ीगोला, जिला-रोहतास में आयोजित लोक-सुनवाई के दौरान उपस्थित व्यक्तियों की सूची:

स्थान- अंचल कार्यालय नासरीगंज, नासरीगंज, दिनांक: 21.06.2023 समय-11:00 A.M.

क्र.स.	नाम	पता	हस्ताक्षर
1.	चन्द्रशेखर [illegible]	AC cum ADM, Rohtas	21/6/2023
2.	[illegible]	[illegible]	21/6/23
3.	Amit Kumar	CO. Nasrigarj	21/06/23
4.	[illegible]	M.I. Rohtas	21/6/23
5.	Kahkasha Phirdaus	M.I. Rohtas	21/6/23
6.	Usman Aarij	M.I Rohtas	21-06-23
7.	Rahul Ranjan Kumar	Rian Consultant Rian Environmental Pvt. Ltd. Environment consultant Registered Private Limited, Patna	21-06-23
8.	Mani Bhushan	[illegible]	[illegible]
9.	Sunil Kumar	Mahadeva	[illegible]
10.	[illegible]	[illegible]	[illegible]
11.	[illegible]	[illegible]	[illegible]
12.	[illegible]	[illegible]	[illegible]
13.	[illegible]	[illegible]	[illegible]
14.	[illegible]	[illegible]	[illegible]

Scanned with OKEN Scanner

15.	अतिमाह चौधरी	महादेवा	अतिमाह चौधरी
16.	रितीकेश कुमार	बरसीहाँ महादेवा	रितीकेश कुमार
17.	लवकुश कुमार	महादेवा	लवकुश कुमार
18.	रंजीत सिंह	महादेवा	रंजीत सिंह
19.	निरज कुमार	महादेवा	निरज कुमार
20.	गोलु यादव	महादेवा	गोलु यादव
21.	[illegible]	महादेवा	[illegible]
22.	[illegible]	महादेवा	[illegible]
23.	[illegible]	महादेवा	[illegible]
24.	विशाल कुमार	महादेवा	Vishal Kumar
25.	अमरेश कुन्विह	महादेवा	[illegible]
26.	निराला राज	महादेवा	Nirala Raj
27.	बजरंगी सिंह	महादेवा	[illegible]
28.	Abhishek Kumar	महादेवा	[illegible]
29.	जयराम पासवान	महादेवा	जयराम पासवान
30.	[illegible]	महादेवा	[illegible]
31.	Kundan Kumar	Mha devan	Kundan Kumar
32.	सुधा-सुधकुमार	महादेवा	सुधान्शु
33.	मुरारी सिंह	महादेवा	मुरारी सिंह
34.	निलाकर निम	महादेवा	निलाकर निम
35.	संतोष कुमार	महादेव	[illegible]

Scanned with OKEN Scanner

36.	कामेश्वर सिंह	चेला	कामेश्वर सिंह
37.	Abay Singh	Agent	Abay Singh
38.	कमलेश कुमार	अगेंसी	कमलेश कुमार
39.	साहेब सिंह	अगेंसी	साहेब सिंह
40.	सुजीत कुमार	अगेंसी	सुजीत कुमार
41.	चन्द्रमन्द्रिका	अग्रदेवी	चन्द्रमन्द्रिका
42.	कामेश्वर सिंह	माहेदवी	कामेश्वर सिंह
43.	विनोद चौधरी	महादेवी	विनोद चौधरी
44.	मिथलेश कुमार	महदेवा	मिथलेश कुमार
45.	शैलेश	महदेवा	शैलेश कुमार
46.			
47.			
48.			
49.			
50.			
51.			
52.			

Scanned with OKEN Scanner

(5)

THE TIMES OF INDIA, PATNA
WEDNESDAY, MAY 17, 2023

लोक-सुनवाई की सूचना

मेसर्स अंशीवर कंस्ट्रक्शन प्रा० लि०, निदेशक- श्रीमति रसलती देवी, पुत्री-लेखी राम, ग्राम-पूसरी मौजम, प्लॉट नं0-388/389, डिकिलट पौल्ट्री मोड़, नासरीगंज, डाकघर-खानपुर, थाना-खानपुर, पटना द्वारा मौजा, बालू घाट खनिक-01, मौजा-महारैन, इटावा, बाग्य, खोक, पित बिसमा, मौरा, कुसाधाम, शकपुर, भनौन, पवरिया, भारकछाना, जमसोना, खनिक-नासरीगंज, मौजा, दावत, सुखपुरा, विक्रमगंज, रामपुर, अकोढ़ीगोला, जिला-रोहतास द्वारा सोन कॉम एवं डोस नदी के बालूघाट (Rohtas Son, Kow, Thora Sand Ghat (Block-01) में बालू खनन परियोजना से संबंधित प्रस्ताव प्राप्त है। इस परियोजना के कार्यान्वयन के पूर्व पर्यावरणीय स्वीकृति हेतु पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार के ई.आई.ए, अधिसूचना संख्या एस. ओ. 1533, दिनांक 14.09.2006 तथा संशोधित, के आलोक में परियोजना को TOR (Terms of Reference) निर्गत किया गया है तथा लोक-सुनवाई की जानी है।

परियोजना का पर्यावरण प्रभाव मूल्यांकन प्रतिवेदन तैयार किया गया है जिसमें सम्भावित कुप्रभावों को नियंत्रित करने के उपाय प्रस्तावित हैं। उक्त प्रतिवेदन तथा परियोजना के कार्यपालक सार की प्रति पर्षद् मुख्यालय , पटना, जिला पदाधिकारी, रोहतास; कार्यपालक पदाधिकारी, जिला परिषद्, रोहतास, जिला उद्योग केन्द्र, रोहतास एवं जिला खनन कार्यालय, रोहतास के कार्यालय में प्रभावित क्षेत्र के लोगों के अवलोकनार्थ उपलब्ध है। परियोजना की विवरणी का अवलोकन पर्षद् के वेबसाईट: http://bspcb.bihar.gov.in पर भी किया जा सकता है। वैसे व्यक्ति जो इस परियोजना से प्रभावित होने वाले हों, अपना लिखित सुझाव/विचार एवं मंतव्य इस सूचना प्रकाशन के 30 दिनों के अन्दर पर्षद् कार्यालय में जमा कर सकते हैं। साथ ही पर्षद् के ई.मेल–msbspcb-bih@gov.in पर अथवा डाक के माध्यम से भी लिखित सुझाव/विचार एवं मंतव्य भेज सकते हैं।

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

दिनांक	समय	अंचल का नाम	बालू घाट का मौजा	बालू घाट का नाम	लोक–सुनवाई का स्थल
21.06.2023	पूर्वाह्न 11:00 बजे	नासरीगंज, ओखा, दावत, सुखपुरा, विक्रमगंज, रामपुर, अकोढ़ीगोला	महारैन, इटावा, बाग्य, खोक, पित बिसमा, मौरा, कुसाधाम, शकपुर, भनौन, पवरिया, भारकछाना,जमसोना	Rohtas Son, Kow, Thora Sand Ghat (Block-01)	अंचल कार्यालय नासरीगंज, जिला- रोहतास।

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

सदस्य–सचिव

BIHAR

बिहार राज्य प्रदूषण नियंत्रण पर्षद

परिवेश भवन, पाटलिपुत्र औद्योगिक क्षेत्र, पटना 800010
दूरभाष नं० 0612-2261250/2262265, फैक्स - 0612-2261050
ई मेल - msbspcb-bih@gov.in, वेबसाईट - http://bspcb.bihar.gov.in

Scanned with OKEN Scanner

Annexure –IV

Terms of Reference (ToR)

File No.SIA/1(a)/2366/2023

Goverment of India

State Level Environment Impact Assessment Authority

Bihar

***

To,

M/s BANSHIDHAR CONSTRUCTION PRIVATE LIMITED
2nd Floor, Plot No.-388/389, Near Biscuit Factory More, Nasriganj Digha, Danapur, Patna-800012
Bihar

Tel.No.-; Email:banshiarwal06@gmail.com

Sub. Terms of Reference to the Sand Mining Project of Area 18.88 Hectare at Rohtas Sone, Know, Thora Sand Ghat (Block-1) on Sone, Kow, Thora River of District-Rohtas State-Bihar., 2nd Floor, Plot No.-388/389, Near Biscuit Factory More, Nasriganj Digha, Danapur

Dear Sir/Madam,

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

1. Proposal No.:	SIA/BR/MIN/423775/2023
2. Name of the Proposal:	Sand Mining Project of Area 18.88 Hectare at Rohtas Sone, Know, Thora Sand Ghat (Block-1) on Sone, Kow, Thora River of District-Rohtas State-Bihar.
3. Category of the Proposal:	Non-Coal Mining
4. Project/Activity applied for:	1(a) Mining of minerals
5. Date of submission for TOR:	19 Apr 2023

Date : 25-04-2023

Mr. Sudhir Kumar
(Member Secretary)

Office : **2nd Floor, Beltron B**
Phone No : Mobile : **9142323035**
Email id : **seiaa.ms.br@gmail.com**

Note : This is auto tor granted letter.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

****

Annexure –V

(Satellite Imaginary Last 3 Years)

Sone River


Rohtas Son 01
Legend
Google Earth
N


Rohtas Son 01
Legend
Google Earth


Rohtas Son 01
Legend
Google Earth

Kow River


022020kow1
Legend
Feature 1
Google Earth


102020kow1
Legend
Feature 1
Google Earth
N


022020kow2
Legend
Feature 1
Google Earth


022021kow2
Legend
Feature 1
Google Earth
N


102020kow2
Legend
Feature 1
Google Earth
N


022020kow04.1
Legend
Feature 1
Google Earth


102020kow04_1
Legend
Feature 1
Google Earth


022020kow04.2
Legend
Feature 1
Google Earth


102020kow04.2
Legend
Feature 1
Google Earth
N


022020kow04.3
Legend
Feature 1
Google Earth


102020kow04.3
Legend
Google Earth


022020kow04.4
Legend
Feature 1
Google Earth
N


102020kow04.4
Legend
Feature 1
Google Earth
N


022020kow3
Legend
Feature 1
Google Earth
N


102020kow3
Legend
Feature 1
Google Earth
N


032022kow05
Legend
Feature 1
Google Earth
N


102020kow05
Legend
Feature 1
Google Earth
N


032022kow06
Legend
Feature 1
Google Earth
N


102020kow06
Legend
Feature 1
Google Earth
N


032022kow07
Legend
Feature 1
Google Earth
N


102020kow07
Legend
Feature 1
Google Earth
N

Thora River


102020THORA 01.1 & 1.2
Legend
Feature 1
Google Earth
N


102020THORA 2
Legend
Feature 1
Google Earth
N


102020THORA 3
Legend
Feature 1
Google Earth
N

Annexure –VI

(Letter from DMO, Rohtas)

जिला खनन कार्यालय, रोहतास (सासाराम)।

पत्रांक–1738 /एम0, सासाराम, दिनांक–23/07/23

प्रेषक,

खनिज विकास पदाधिकारी
रोहतास (सासाराम)।

सेवा में,

वंशीधर कंस्ट्रक्शन प्रा0 लि0,
निदेशक–लालती देवी,
पिता–मेदनी राय,
पता–द्वितीय तल प्लॉट नं0–388/389,
बिस्कुट फैक्ट्री मोड़, नासरीगंज, पो0–दानापुर,
था0–दानापुर जिला–पटना। पिन–80012
ई–मेल bcpl72@yahoo.com
Mob.-9931149278

विषयः– रोहतास जिलान्तर्गत सोन बालूघाट/ब्लॉक सं0–1 रकवा–18.88 हे0 क्षेत्र पर पूर्व से खनन/प्रेषण की विवरणी उपलब्ध कराने के संबंध में।

प्रसंगः– आपका पत्रांक–BCPL/23-24/DMO, Rohtas/050 दिनांक–11.07.2023

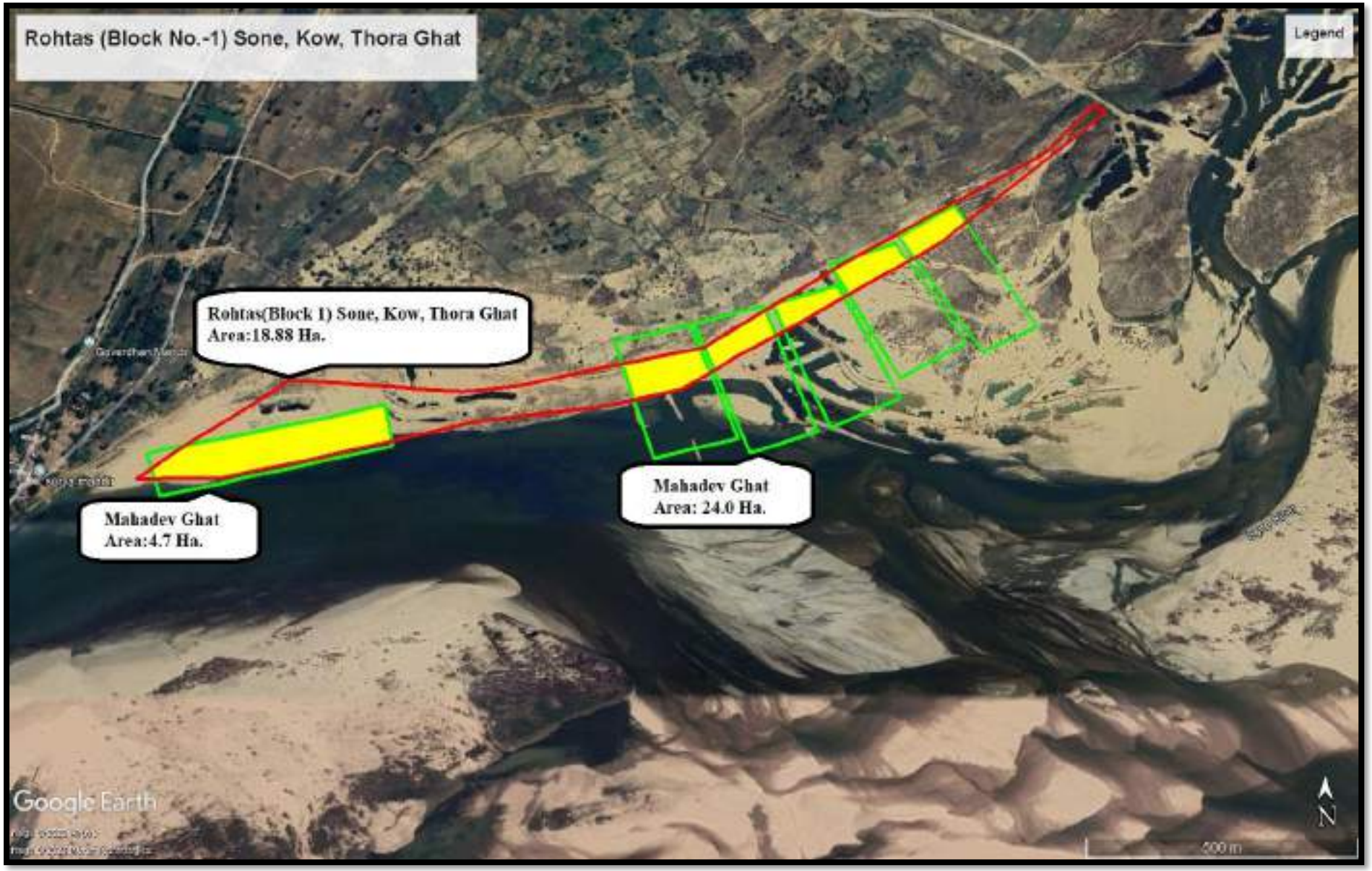
महाशय,

उपर्युक्त विषयक आपको प्रासंगिक पत्र के क्रम में आपके राज्य पर्यावरण समाघात निर्धारण प्राधिकार (SEIAA) बिहार, पटना द्वारा निर्गत TOR के आलोक में सूचित किया जाता है कि विषयांकित सोन बालूघाट/ब्लॉक सं0–1 में दिनांक–01.10.2022 से 30.06.2023 तक खनन/प्रेषण की मात्रा 398893.03 MT है।

विश्वासभाजन

27-07-23

खनिज विकास पदाधिकारी,
रोहतास, सासाराम।



N

W E

S

Legend

PROPOSED GHAT

OLD GHAT

OVERLAPED AREA

PROPOSED GHAT AREA: 18.88 Ha.
OVERLAPED AREA: 8.75 Ha.

PROJECT: ROHTAS(BLOCK1) SONE, KOW THORA GHAT
AREA: 18.88 HA.
RIVER: SONE, KOW THORA

Annexure –VII

(Monitoring reports)

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/1501/03/2023

DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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

Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : PROJECT SITE (SAND GHAT-1)
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs =04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	07.12.2022	ETS/DI-01	69.7	32.9	15.2	23.4	1.08
2	10.12.2022	ETS/DI-02	66.8	35.7	14.4	26.2	0.58
3	12.12.2022	ETS/DI-03	66.4	32.0	15.8	18.5	1.68
4	15.12.2022	ETS/DI-04	65.9	30.3	14.6	21.0	1.08
5	19.12.2022	ETS/DI-05	69.3	35.9	18.8	26.3	0.96
6	22.12.2022	ETS/DI-06	69.9	35.3	17.2	25.1	1.93
7	26.12.2022	ETS/DI-07	64.9	32.9	15.1	21.4	1.66
8	30.12.2022	ETS/DI-08	72.1	35.9	19.3	25.9	1.24
9	03.01.2023	ETS/DI-09	70.0	38.8	17.9	25.7	1.83
10	06.01.2023	ETS/DI-10	75.2	40.2	16.8	25.0	1.87
11	10.01.2023	ETS/DI-11	61.2	32.9	18.2	22.1	1.48
12	13.01.2023	ETS/DI-12	65.8	34.0	15.6	22.9	1.44
13	17.01.2023	ETS/DI-13	59.7	33.3	16.6	21.6	0.75
14	20.01.2023	ETS/DI-14	63.6	36.1	12.0	25.3	0.96
15	23.01.2023	ETS/DI-15	60.6	32.9	18.6	21.1	1.56
16	27.01.2023	ETS/DI-16	66.1	33.4	18.7	21.7	0.75
17	03.02.2023	ETS/DI-17	65.5	32.5	15.0	20.5	1.91
18	07.02.2023	ETS/DI-18	64.4	33.1	15.7	24.5	1.56
19	10.02.2023	ETS/DI-19	63.4	33.7	15.8	22.6	1.68
20	13.02.2023	ETS/DI-20	69.6	35.1	13.4	24.7	0.87
21	17.02.2023	ETS/DI-21	63.6	34.0	15.8	27.8	1.68
22	20.02.2023	ETS/DI-22	69.4	34.8	16.8	30.0	1.81
23	26.02.2023	ETS/DI-23	63.6	32.5	15.8	20.6	1.80
24	03.03.2023	ETS/DI-24	76.3	32.7	18.7	21.6	0.98
Minimum			**59.7**	**30.3**	**12.0**	**18.5**	**0.58**
Maximum			**76.3**	**40.2**	**19.3**	**30.0**	**1.93**
Average			**66.8**	**34.2**	**16.3**	**23.6**	**1.38**
98 PERCENTILE			**75.8**	**39.6**	**19.1**	**29.0**	**1.92**

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Ashok Mittal
Lab In-charge

AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1502/03/2023 DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Analysis Start Date	:	12.12.2022
Analysis End Date	:	06.03.2023
Sampling Done By	:	ETS STAFF
Sampling Location	:	MIDDLE SCHOOL MAHADEVA
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-01	72.6	34.3	12.7	19.5	1.20
2	10.12.2022	ETS/DI-02	69.6	37.2	12.0	21.8	0.64
3	12.12.2022	ETS/DI-03	69.2	33.3	13.2	15.4	1.86
4	15.12.2022	ETS/DI-04	68.6	31.6	12.2	17.5	1.20
5	19.12.2022	ETS/DI-05	72.2	37.4	15.7	21.9	1.06
6	22.12.2022	ETS/DI-06	72.8	36.8	14.3	20.9	2.14
7	26.12.2022	ETS/DI-07	67.6	34.3	12.6	17.8	1.85
8	30.12.2022	ETS/DI-08	75.1	37.4	16.1	21.6	1.38
9	03.01.2023	ETS/DI-09	72.9	40.4	14.9	21.4	2.03
10	06.01.2023	ETS/DI-10	78.3	41.9	14.0	20.8	2.08
11	10.01.2023	ETS/DI-11	63.7	34.3	15.2	18.4	1.65
12	13.01.2023	ETS/DI-12	68.5	35.4	13.0	19.1	1.60
13	17.01.2023	ETS/DI-13	62.2	34.7	13.8	18.0	0.83
14	20.01.2023	ETS/DI-14	66.2	37.6	10.0	21.1	1.06
15	23.01.2023	ETS/DI-15	63.1	34.3	15.5	17.6	1.73
16	27.01.2023	ETS/DI-16	68.9	34.8	15.6	18.1	0.83
17	03.02.2023	ETS/DI-17	68.2	33.9	12.5	17.1	2.12
18	07.02.2023	ETS/DI-18	67.1	34.5	13.1	20.4	1.73
19	10.02.2023	ETS/DI-19	66.0	35.1	13.2	18.8	1.86
20	13.02.2023	ETS/DI-20	72.5	36.6	11.2	20.6	0.96
21	17.02.2023	ETS/DI-21	66.2	35.4	13.2	23.2	1.86
22	20.02.2023	ETS/DI-22	72.3	36.3	14.0	25.0	2.01
23	26.02.2023	ETS/DI-23	66.2	33.9	13.2	17.2	2.00
24	03.03.2023	ETS/DI-24	79.5	34.1	15.6	18.0	1.09
		Minimum	**62.2**	**31.6**	**10.0**	**15.4**	**0.64**
		Maximum	**79.5**	**41.9**	**16.1**	**25.0**	**2.14**
		Average	**69.6**	**35.6**	**13.6**	**19.6**	**1.53**
		98 PERCENTILE	**78.9**	**41.2**	**16.0**	**24.2**	**2.13**

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Rushal Mittal
Lab In-charge
AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1503/03/2023 DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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

Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : KANYA PRATHMIK VIDYALAYA POKHARAHA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	09.12.2022	ETS/DI-25	71.4	31.4	9.9	20.2	0.96
2	12.12.2022	ETS/DI-26	70.6	39.2	10.6	22.0	1.23
3	16.12.2022	ETS/DI-27	76.3	37.5	11.1	17.4	0.94
4	19.12.2022	ETS/DI-28	66.1	38.7	9.9	17.3	1.08
5	23.12.2022	ETS/DI-29	73.5	42.0	12.4	24.0	0.69
6	26.12.2022	ETS/DI-30	74.4	46.2	13.0	25.6	0.87
7	30.12.2022	ETS/DI-31	68.9	36.7	11.1	17.5	1.02
8	01.01.2023	ETS/DI-32	82.0	43.0	12.0	21.9	1.43
9	05.01.2023	ETS/DI-33	75.8	42.5	11.9	19.1	1.97
10	09.01.2023	ETS/DI-34	76.9	41.9	13.2	20.2	1.74
11	12.01.2023	ETS/DI-35	66.2	32.8	13.6	17.4	1.18
12	15.01.2023	ETS/DI-36	65.6	32.0	10.5	18.6	1.84
13	19.01.2023	ETS/DI-37	64.5	39.2	13.5	17.9	1.72
14	22.01.2023	ETS/DI-38	67.1	34.3	13.5	21.4	0.99
15	28.01.2023	ETS/DI-39	63.0	33.2	12.6	15.8	1.43
16	31.01.2023	ETS/DI-40	65.3	35.4	13.1	14.4	1.97
17	04.02.2023	ETS/DI-41	69.7	35.9	15.4	15.6	1.10
18	08.02.2023	ETS/DI-42	70.5	37.9	11.7	20.5	1.74
19	11.02.2023	ETS/DI-43	67.6	34.5	11.1	18.7	1.66
20	14.02.2023	ETS/DI-44	75.3	38.3	12.4	21.2	1.32
21	19.02.2023	ETS/DI-45	67.0	36.3	11.1	20.2	1.66
22	23.02.2023	ETS/DI-46	72.2	32.7	16.4	25.8	1.97
23	27.02.2023	ETS/DI-47	67.2	30.5	15.8	18.7	1.21
24	04.03.2023	ETS/DI-48	69.2	33.8	11.6	18.7	1.87
		Minimum	63.0	30.5	9.9	14.4	0.69
		Maximum	82.0	46.2	16.4	25.8	1.97
		Average	70.3	36.9	12.4	19.6	1.40
		98 PERCENTILE	79.6	44.7	16.1	25.7	1.97

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Pankaj Mittal
Lab In-charge
AUTHORIZED SIGNATORY

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.

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1504/03/2023 DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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

Analysis Start Date : 12.12.2022
Analysis End Date : 06.03.2023
Sampling Done By : ETS STAFF
Sampling Location : MANGRAWAN
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	69.8	29.7	10.1	22.8	2.04
2	10.12.2022	ETS/DI-50	71.5	31.1	12.9	25.5	1.71
3	12.12.2022	ETS/DI-51	72.1	34.1	11.3	18.2	1.63
4	15.12.2022	ETS/DI-52	65.4	35.2	10.7	19.9	1.71
5	19.12.2022	ETS/DI-53	78.8	39.2	10.1	25.6	0.55
6	22.12.2022	ETS/DI-54	82.4	38.3	13.3	24.3	0.65
7	26.12.2022	ETS/DI-55	78.0	35.4	11.3	20.1	0.82
8	30.12.2022	ETS/DI-56	75.6	39.2	10.4	25.3	1.06
9	03.01.2023	ETS/DI-57	79.7	43.7	14.6	25.2	1.47
10	06.01.2023	ETS/DI-58	75.4	38.2	13.1	24.2	1.71
11	10.01.2023	ETS/DI-59	65.6	36.0	15.2	21.1	2.04
12	13.01.2023	ETS/DI-60	64.6	36.7	16.3	22.1	1.43
13	17.01.2023	ETS/DI-61	63.6	35.7	12.3	20.9	1.71
14	20.01.2023	ETS/DI-62	66.3	39.2	13.9	24.6	0.73
15	23.01.2023	ETS/DI-63	61.7	35.4	13.3	20.1	1.06
16	27.01.2023	ETS/DI-64	64.4	32.8	13.6	21.0	1.47
17	03.02.2023	ETS/DI-65	68.9	34.8	11.6	18.0	0.82
18	07.02.2023	ETS/DI-66	71.5	35.6	11.0	23.9	1.87
19	10.02.2023	ETS/DI-67	66.7	36.4	11.3	21.7	1.22
20	13.02.2023	ETS/DI-68	74.4	38.2	12.6	24.0	0.98
21	17.02.2023	ETS/DI-69	66.2	32.0	11.3	27.5	1.71
22	20.02.2023	ETS/DI-70	71.3	37.8	13.1	26.7	1.47
23	26.02.2023	ETS/DI-71	66.4	35.7	12.6	19.6	2.04
24	03.03.2023	ETS/DI-72	68.4	35.1	11.6	19.9	1.15
		Minimum	**61.7**	**29.7**	**10.1**	**18.0**	**0.55**
		Maximum	**82.4**	**43.7**	**16.3**	**27.5**	**2.04**
		Average	**70.4**	**36.1**	**12.4**	**22.6**	**1.38**
		98 PERCENTILE	**81.1**	**41.6**	**15.8**	**27.1**	**2.04**

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Ankur Mittal
Lab In-charge
AUTHORIZED SIGNATORY

Note:-

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

ETS-LAB

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/1505/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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

Analysis Start Date : 10.12.2022

Analysis End Date : 05.03.2023

Sampling Done By : ETS STAFF

Sampling Location : ANCHHA

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	74.8	41.1	10.4	19.7	0.67
2	12.12.2022	ETS/DI-74	76.3	43.0	16.2	22.1	0.59
3	16.12.2022	ETS/DI-75	66.9	38.0	12.5	15.5	0.54
4	19.12.2022	ETS/DI-76	69.8	39.2	11.6	17.3	1.10
5	23.12.2022	ETS/DI-77	68.2	43.4	17.9	22.3	0.78
6	26.12.2022	ETS/DI-78	72.2	42.7	16.2	21.1	1.25
7	30.12.2022	ETS/DI-79	72.6	39.3	9.9	17.5	1.57
8	01.01.2023	ETS/DI-80	75.6	43.4	15.8	22.0	1.34
9	05.01.2023	ETS/DI-81	74.3	43.0	17.5	21.8	1.88
10	09.01.2023	ETS/DI-82	76.9	42.4	15.8	21.0	1.41
11	12.01.2023	ETS/DI-83	70.0	40.2	13.9	27.0	0.47
12	15.01.2023	ETS/DI-84	69.2	40.8	11.8	19.2	1.31
13	19.01.2023	ETS/DI-85	68.1	39.8	14.4	17.9	1.25
14	22.01.2023	ETS/DI-86	65.1	43.8	17.1	21.5	1.88
15	28.01.2023	ETS/DI-87	66.2	39.3	15.8	17.4	1.72
16	31.01.2023	ETS/DI-88	68.9	37.0	17.9	18.2	1.41
17	04.02.2023	ETS/DI-89	73.6	38.7	9.5	15.6	1.75
18	08.02.2023	ETS/DI-90	76.4	39.7	12.2	20.7	1.72
19	11.02.2023	ETS/DI-91	71.3	40.4	12.5	18.8	1.94
20	14.02.2023	ETS/DI-92	69.5	36.8	14.8	20.8	0.63
21	19.02.2023	ETS/DI-93	70.8	39.5	12.5	23.8	1.25
22	23.02.2023	ETS/DI-94	76.2	42.0	15.8	23.1	1.72
23	27.02.2023	ETS/DI-95	71.0	38.9	12.9	16.1	1.88
24	04.03.2023	ETS/DI-96	73.2	39.1	17.1	17.2	1.21
		Minimum	65.1	36.8	9.5	15.5	0.47
		Maximum	76.9	43.8	17.9	27.0	1.94
		Average	71.5	40.5	14.2	19.9	1.30
		98 PERCENTILE	76.7	43.6	17.9	25.5	1.91

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Pushkar Mittal
Lab In-charge
AUTHORIZED SIGNATORY

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.

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

ISO 45001

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

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

TEST REPORT

TEST REPORT NO : ETS/1506/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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

Analysis Start Date : 12.12.2022

Analysis End Date : 06.03.2023

Sampling Done By : ETS STAFF

Sampling Location : DAUDANAGAR

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	74.9	43.3	14.5	24.7	0.54
2	10.12.2022	ETS/DI-98	76.6	45.4	15.2	28.0	0.61
3	12.12.2022	ETS/DI-99	67.2	39.9	12.2	20.3	0.55
4	15.12.2022	ETS/DI-100	66.2	37.7	13.4	21.7	0.63
5	19.12.2022	ETS/DI-101	68.4	45.7	7.7	28.1	0.54
6	22.12.2022	ETS/DI-102	72.5	44.7	9.6	26.6	0.71
7	26.12.2022	ETS/DI-103	72.9	41.4	14.1	22.0	0.84
8	30.12.2022	ETS/DI-104	75.6	45.7	13.8	27.6	0.79
9	03.01.2023	ETS/DI-105	74.3	45.4	15.2	27.3	0.65
10	06.01.2023	ETS/DI-106	77.1	44.6	12.2	26.5	0.86
11	10.01.2023	ETS/DI-107	70.3	42.2	14.9	23.2	0.91
12	13.01.2023	ETS/DI-108	69.3	42.8	9.9	23.9	0.95
13	17.01.2023	ETS/DI-109	68.2	41.9	9.1	22.7	0.65
14	20.01.2023	ETS/DI-110	69.1	45.8	11.0	27.0	0.63
15	23.01.2023	ETS/DI-111	66.4	41.4	12.2	22.0	0.76
16	27.01.2023	ETS/DI-112	69.1	43.4	13.8	22.8	1.77
17	03.02.2023	ETS/DI-113	73.8	40.8	13.8	20.3	1.12
18	07.02.2023	ETS/DI-114	78.4	41.6	15.2	26.0	1.14
19	10.02.2023	ETS/DI-115	71.6	42.5	14.9	23.7	1.70
20	13.02.2023	ETS/DI-116	69.8	44.6	14.5	26.1	0.82
21	17.02.2023	ETS/DI-117	71.0	46.4	9.9	31.8	1.54
22	20.02.2023	ETS/DI-118	76.5	44.3	11.0	29.2	0.68
23	26.02.2023	ETS/DI-119	71.2	40.9	12.2	25.6	0.85
24	03.03.2023	ETS/DI-120	73.3	41.1	13.8	21.6	1.24
		Minimum	**66.2**	**37.7**	**7.7**	**20.3**	**0.54**
		Maximum	**78.4**	**46.4**	**15.2**	**31.8**	**1.77**
		Average	**71.8**	**43.1**	**12.7**	**24.9**	**0.90**
		98 PERCENTILE	**77.8**	**46.1**	**15.2**	**30.6**	**1.74**

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Rishabh Mittal
Lab In-charge
AUTHORIZED SIGNATORY

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.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/1507/03/2023 DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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

Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : MAKHMULPUR
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	72.3	40.3	11.4	25.6	0.84
2	10.12.2022	ETS/DI-146	75.6	42.1	12.2	28.9	1.22
3	12.12.2022	ETS/DI-147	81.2	37.3	10.3	26.4	1.36
4	15.12.2022	ETS/DI-148	69.3	38.3	18.9	19.8	0.94
5	19.12.2022	ETS/DI-149	74.3	42.5	12.3	25.4	1.85
6	22.12.2022	ETS/DI-150	77.3	41.6	11.0	24.2	1.50
7	26.12.2022	ETS/DI-151	72.6	36.9	12.4	18.4	1.40
8	30.12.2022	ETS/DI-152	76.9	42.5	16.3	22.2	1.12
9	03.01.2023	ETS/DI-153	79.8	42.1	12.3	21.3	1.09
10	06.01.2023	ETS/DI-154	73.2	43.6	10.9	21.3	0.70
11	10.01.2023	ETS/DI-155	66.9	39.2	11.6	21.0	1.54
12	13.01.2023	ETS/DI-156	68.7	39.9	12.2	21.9	1.15
13	17.01.2023	ETS/DI-157	68.7	41.2	10.6	16.9	1.78
14	20.01.2023	ETS/DI-158	63.0	42.8	11.2	24.5	0.84
15	23.01.2023	ETS/DI-159	63.5	38.5	11.9	19.9	1.36
16	27.01.2023	ETS/DI-160	63.7	42.3	16.4	18.4	1.02
17	03.02.2023	ETS/DI-161	71.3	37.9	15.4	18.8	1.05
18	07.02.2023	ETS/DI-162	74.1	38.7	14.2	23.7	1.64
19	10.02.2023	ETS/DI-163	69.1	74.6	10.3	21.6	1.36
20	13.02.2023	ETS/DI-164	78.9	41.5	10.7	21.3	0.96
21	17.02.2023	ETS/DI-165	68.4	44.0	10.6	28.4	1.36
22	20.02.2023	ETS/DI-166	73.8	45.6	13.3	32.7	1.68
23	26.02.2023	ETS/DI-167	68.7	41.2	10.4	27.1	1.47
24	03.03.2023	ETS/DI-168	70.7	39.9	12.2	25.2	0.70
		Minimum	**63.0**	**36.9**	**10.3**	**16.9**	**0.70**
		Maximum	**81.2**	**74.6**	**18.9**	**32.7**	**1.85**
		Average	**71.8**	**42.3**	**12.5**	**23.1**	**1.25**
		98 PERCENTILE	**80.6**	**61.3**	**17.8**	**31.0**	**1.82**

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Pushkal Mittal
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/1508/03/2023 DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

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

Analysis Start Date : 12.12.2022
Analysis End Date : 06.03.2023
Sampling Done By : ETS STAFF
Sampling Location : MAHAMMADPUR
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	75.9	42.3	12.0	26.9	0.74
2	12.12.2022	ETS/DI-170	79.4	44.2	12.8	30.3	0.74
3	16.12.2022	ETS/DI-171	85.3	39.2	10.8	27.7	1.26
4	19.12.2022	ETS/DI-172	72.8	40.2	19.8	20.8	0.94
5	23.12.2022	ETS/DI-173	78.0	44.6	12.9	26.7	0.95
6	26.12.2022	ETS/DI-174	81.2	43.7	11.6	25.4	1.47
7	30.12.2022	ETS/DI-175	76.2	38.7	13.0	19.3	1.23
8	01.01.2023	ETS/DI-176	80.7	44.6	17.1	23.3	1.82
9	05.01.2023	ETS/DI-177	83.8	44.2	12.9	22.4	1.43
10	09.01.2023	ETS/DI-178	76.9	45.8	11.4	22.4	1.99
11	12.01.2023	ETS/DI-179	70.2	41.2	12.2	22.1	0.84
12	15.01.2023	ETS/DI-180	72.1	41.9	12.8	23.0	1.05
13	19.01.2023	ETS/DI-181	72.1	43.3	11.1	17.7	1.68
14	22.01.2023	ETS/DI-182	66.2	44.9	11.8	25.7	0.84
15	28.01.2023	ETS/DI-183	66.7	40.4	12.5	20.9	1.36
16	31.01.2023	ETS/DI-184	66.9	44.4	17.2	19.3	1.89
17	04.02.2023	ETS/DI-185	74.9	39.8	16.2	19.7	1.05
18	08.02.2023	ETS/DI-186	77.8	40.6	14.9	24.9	1.15
19	11.02.2023	ETS/DI-187	72.6	38.2	10.8	22.7	1.26
20	14.02.2023	ETS/DI-188	82.8	43.6	11.2	22.4	1.78
21	19.02.2023	ETS/DI-189	71.8	46.2	10.8	29.8	1.26
22	23.02.2023	ETS/DI-190	77.5	47.9	14.0	34.3	0.66
23	27.02.2023	ETS/DI-191	72.1	43.3	10.9	28.5	1.36
24	04.03.2023	ETS/DI-192	74.2	41.9	12.8	26.5	1.19
		Minimum	66.2	38.2	10.8	17.7	0.66
		Maximum	85.3	47.9	19.8	34.3	1.99
		Average	75.3	42.7	13.1	24.3	1.25
		98 PERCENTILE	84.6	47.1	18.6	32.5	1.95

For Enviro-Tech Services

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

CHECKED BY
SHRADDHA GUPTA

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.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/1509/02/2023 DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Date of Sampling	:	10-02-2023
Analysis Start Date	:	13-02-2023
Analysis End Date	:	16-02-2023
Sample ID No	:	1509
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	MIDDLE SCHOOL MAHADEVA
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.34	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	470.6	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	190.5	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	201.81	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	78.0	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	48.9	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	12.7	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.7	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.28	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.13	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY
Pankaj Mittal
Lab In-charge

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1509/02/2023 DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

19.	Copper (Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	21.5	30	100	IS:3025 (Pt-45)
21.	Manganese (Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc (Zn)	mg/L	0.29	5	15	APHA-3111 (B)
23.	Cadmium (Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead (Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury (Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic (As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	553.7	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****

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Pushkar Mittal
In-charge
AUTHORIZED SIGNATORY

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1510/02/2023 DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Date of Sampling	:	10-02-2023
Analysis Start Date	:	13-02-2023
Analysis End Date	:	16-02-2023
Sample ID No	:	1510
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	KANYA PRATHMIK VIDYALAYA POKHARAHA
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.71	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	360.78	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	137.76	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	180.71	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	92.51	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	76.65	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	23.45	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.64	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.06	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.18	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY
Lab In-charge

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1510/02/2023 DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	18.48	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.14	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	524.69	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

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

For Enviro-Tech Services

Parshant Mittal
Lab In-charge
AUTHORIZED SIGNATORY

CHECKED BY
SHRADDHA GUPTA

Note:

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/1511/02/2023 DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Date of Sampling	:	15-02-2023
Analysis Start Date	:	17-02-2023
Analysis End Date	:	20-02-2023
Sample ID No	:	1511
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	MANGRAWAN
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.12	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	225.6	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	185.1	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	212.7	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	106.9	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	53.3	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	31.0	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	3.5	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.09	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.19	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Prashant Mittal
Lab In-charge

AUTHORIZED SIGNATORY

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.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/1511/02/2023 DATE OF REPORT : 10-03-2023

WATERSAMPLE ANALYSIS REPORT

19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	16.5	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.25	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	394.2	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Rajkumar Mittal
Lab In-charge
AUTHORIZED SIGNATORY

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1512/02/2023 DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Date of Sampling	:	20-02-2023
Analysis Start Date	:	23-02-2023
Analysis End Date	:	26-02-2023
Sample ID No	:	1512
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	ANCHHA
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.52	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	384.7	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	188.8	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	220.6	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	81.7	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	45.09	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	26.3	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	4.2	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.45	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.16	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Kumar Mittal
Manager
AUTHORIZED SIGNATORY

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/1512/02/2023 DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	28.6	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.38	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	478.8	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Sankar Mittal
Lab In-Charge
AUTHORIZED SIGNATORY

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.

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/1513/02/2023 DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Date of Sampling	:	20-02-2023
Analysis Start Date	:	23-02-2023
Analysis End Date	:	26-02-2023
Sample ID No	:	1513
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	DAUDANAGAR
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	---	7.16	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	567.5	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	185.07	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	278.5	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	138.9	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	89.8	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	29.3	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.72	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.40	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.16	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Kashkar Mittal
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/1513/02/2023 DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	18.2	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.36	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	714.2	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Pushkar Mittal
Lab In-charge
AUTHORIZED SIGNATORY

Note:-

1. **Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.**
2. **The results indicated only refer to the tested samples and listed applicable parameters.**
3. **No complaint will be entertained if received after 7 days of issue of test report.**
4. **Our 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.**

4. **Our liability is limited to invoice value only.**
5. **The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.**
6. **This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.**

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1515/02/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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	:	MIDDLE SCHOOL MAHADEVA
Category Of Area	:	SILENCE ZONE
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	47.4	50
2.	Noise Level Night Time	Leq :dB (A)	36.2	40

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

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Pushkar Mittal
Head-in-charge
AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1517/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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	:	KANYA PRATHMIK VIDYALAYA POKHARAHA
Category Of Area	:	SILENCE ZONE
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	45.7	50
2.	Noise Level Night Time	Leq :dB (A)	33.2	40

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

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Pushkar Mittal
Lab In Charge
AUTHORIZED SIGNATORY

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/1518/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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	:	MANGRAWAN
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)	46.1	55
2.	Noise Level Night Time	Leq :dB (A)	41.8	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****

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

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

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1519/07/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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	:	ANCHHA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	47.2	55
2.	Noise Level Night Time	Leq :dB (A)	35.5	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****

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Pushp Mittal
Lab In-charge

AUTHORIZED SIGNATORY

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

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1520/02/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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	:	DAUDANAGAR
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)	50.7	55
2.	Noise Level Night Time	Leq :dB (A)	42.4	45

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

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Page 1 of 1

Pankaj Bittal
Lab In-charge
AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/1521/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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	:	MAKHMULPUR
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)	52.1	55
2.	Noise Level Night Time	Leq :dB (A)	38.3	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****

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Pushkar Mittal
Lab In-Charge
AUTHORIZED SIGNATORY

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

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/1522/02/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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	:	MAHAMMADPUR
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)	48.4	55
2.	Noise Level Night Time	Leq :dB (A)	40.8	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****

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Sushil Kumar Mittal
Lab In-charge
AUTHORIZED SIGNATORY

Note:-

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

ETS-LAB

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/1523/02/2023 DATE OF REPORT : 10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Date of Sampling	:	20-02-2023
Analysis Start Date	:	23-02-2023
Analysis End Date	:	25-02-2023
Sample ID No	:	1523
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	PLAY GROUND NEAR MAHADEVA
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

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

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Pushpa Mittal
Lab In-charge
AUTHORIZED SIGNATORY

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/1524/02/2023 DATE OF REPORT : 10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Date of Sampling	:	20-02-2023
Analysis Start Date	:	23-02-2023
Analysis End Date	:	25-02-2023
Sample ID No	:	1524
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	AGRICULTURE LAND NEAR DAUDNAGAR
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	%	60.6	IS:2720 (Pt-4)
3.	Silt	%	26.4	IS:2720 (Pt-4)
4.	Clay	%	13.0	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	8.12	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.65	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	342.2	IS:14767
8.	Water Holding Capacity(WHC)	%	37.9	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	175.5	APHA-3125B
10.	Calcium (Ca)	mg/kg	1196.9	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	491.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.28	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	186.9	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	54.9	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	316.23	APHA-3125B
16.	Organic Matter	%	0.96	IS : 2720 (P-22)
17.	Organic Carbon	%	1.65	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.45	IS:3025(P-24)
19.	Porosity	%	24.7	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.84	ASTM 9214

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

CHECKED BY
SHRADDHA GUPTA

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/1527/02/2023

DATE OF REPORT : 10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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-000
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	PROJECT SITE (SAND GHAT-1)
Sampling Quantity	:	2.0 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	75.0	IS:2720 (Pt-4)
3.	Silt	%	14.2	IS:2720 (Pt-4)
4.	Clay	%	10.8	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	8.04	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.76	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	356.1	IS:14767
8.	Water Holding Capacity(WHC)	%	38.5	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	162.6	APHA-3125B
10.	Calcium (Ca)	mg/kg	1212.7	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	524.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.69	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	219.4	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	47.1	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	314.2	APHA-3125B
16.	Organic Matter	%	1.46	IS : 2720 (P-22)
17.	Organic Carbon	%	1.27	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.80	IS:3025(P-24)
19.	Porosity	%	23.1	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.14	ASTM 9214

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Lab In-Charge

AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/1528/02/2023 DATE OF REPORT : 10.03.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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 (DOWNSTREAM)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.16	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.14	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	462.4	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	189.1	IS:3025 (Pt-23)
7.	Total Hardness(CaCO3)	mg/L	239.1	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	115.7	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	66.5	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	45.5	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	3.4	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.42	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	17.2	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.66	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	694.2	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	16.5	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	3.6	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.5	APHA-5210
34.	E. Coli	MPN/100ml	480.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	670.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	530.0	APHA-9221

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

For Enviro-Tech Services

Authorized Signatory

Note:-

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

CHECKED BY
SHRADDHA GUPTA

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/1529/02/2023

DATE OF REPORT : 10.03.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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 (UPSTREAM)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.48	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.86	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	489.7	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	192.1	IS:3025 (Pt-23)
7.	Total Hardness(CaCO3)	mg/L	275.7	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	101.8	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	49.9	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	34.9	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	5.8	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.34	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.22	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	19.7	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.46	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	710.5	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	18.7	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	4.2	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	7.6	APHA-5210
34.	E. Coli	MPN/100ml	190.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	230.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	210.0	APHA-9221

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

For Enviro-Tech Services

Purshottam Mittal
Lab In-charge

AUTHORIZED SIGNATORY

CHECKED BY
SHRADDHA GUPTA

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 complaints will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to the invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/1530/02/2023 DATE OF REPORT : 10.03.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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	:	CANAL (25° 1'59.40"N 84°24'51.05"E)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.38	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.9	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	388.1	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	189.4	IS:3025 (Pt-23)
7.	Total Hardness(CaCO3)	mg/L	250.3	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	75.2	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	55.3	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	39.07	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	3.42	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.45	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.22	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	9.16	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.48	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	612.2	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	21.4	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	6.0	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.7	APHA-5210
34.	E. Coli	MPN/100ml	260.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	480.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	310.0	APHA-9221

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

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample(s) will be disposed 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 as evidence in the court of law without prior written permission of the laboratory.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/1531/02/2023 DATE OF REPORT : 10.03.2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Date of Sampling	:	20.02.2023
Analysis Start Date	:	22.02.2023
Analysis End Date	:	25.02.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	CANAL (25° 5'21.72"N 84°21'11.20"E)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	6.55	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.45	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	427.7	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	173.5	IS:3025 (Pt-23)
7.	Total Hardness(CaCO3)	mg/L	137.8	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	88.42	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	42.7	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	28.9	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	1.23	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.37	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.12	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	13.8	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.46	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	585.9	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	19.9	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27°C for 3 day)	mg/L	4.6	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	3.8	APHA-5210
34.	E. Coli	MPN/100ml	230.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	380.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	260.0	APHA-9221

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

For Enviro-Tech Services

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 will 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 as evidence in the court of law without the prior written permission of the laboratory.

CHECKED BY
SHRADDHA GUPTA

Rushbar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/3452/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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 (DOWNSTREAM)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.16	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.14	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	462.4	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	189.1	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	239.1	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	115.7	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	66.5	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	45.5	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	3.4	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.42	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	17.2	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.66	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	694.2	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	16.5	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^{0}C for 3 day)	mg/L	3.6	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.5	APHA-5210
34.	E. Coli	MPN/100ml	290	IS:1622-1981
35.	Total Coliform	MPN/100ml	1011	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	530	APHA-9221

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

Note:-

1. Test reports without **ETS LAB HOLOGRAM** are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. **CHECKED BY** will be entertained if received after 7 days of issue of test report.
4. **SHRADDHA GUPTA** 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

Lab-in-charge

AUTHORIZED SIGNATORY

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/3453/02/2023 DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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 (UPSTREAM)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.48	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.86	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	489.7	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	192.1	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	275.7	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	101.8	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	49.9	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	34.9	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	5.8	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.34	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.22	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	19.7	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.46	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	710.5	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	18.7	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^0C for 3 day)	mg/L	4.2	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	7.6	APHA-5210
34.	E. Coli	MPN/100ml	260.0	IS:1622-1981
35.	Total Coliform	MPN/100ml	930.0	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	480.0	APHA-9221

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

Note:-

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services
Pankaj Mittal
Lab In-charge

AUTHORIZED SIGNATORY

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/3454/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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	:	CANAL(25° 1'59.40"N 84°24'51.05"E)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.38	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.9	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	388.1	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	189.4	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	250.3	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	75.2	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	55.3	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	39.07	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	3.42	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.45	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.22	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	9.16	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.48	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	612.2	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	21.4	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^{0}C for 3 day)	mg/L	6.0	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.7	APHA-5210
34.	E. Coli	MPN/100ml	170	IS:1622-1981
35.	Total Coliform	MPN/100ml	670	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	310	APHA-9221

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

Note:

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

CHECKED BY
SHRADDHA GUPTA

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/3455/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Date of Sampling	:	20.02.2023
Analysis Start Date	:	22.02.2023
Analysis End Date	:	25.02.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	CANAL(25° 5'21.72"N 84°21'11.20"E)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	6.55	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.45	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	427.7	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	173.5	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	137.8	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	88.42	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	42.7	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	28.9	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	1.23	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.37	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.12	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	13.8	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.46	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	585.9	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	19.9	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^0C for 3 day)	mg/L	4.6	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	3.8	APHA-5210
34.	E. Coli	MPN/100ml	140	IS:1622-1981
35.	Total Coliform	MPN/100ml	590	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	260	APHA-9221

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

For Enviro-Tech Services

Pushkar Mittal

In-charge

AUTHORIZED SIGNATORY

CHECKED BY
SHRADDHA GUPTA

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 complaints 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. Perishable samples should be disposed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO :ETS/3456/02/2023 DATE OF REPORT :10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 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-3456
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	AGRICULTURE LAND NEAR MAHIPAT BIGHA
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	%	52.7	IS:2720 (Pt-4)
3.	Silt	%	27.3	IS:2720 (Pt-4)
4.	Clay	%	20.2	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.88	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.84	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	348.81	IS:14767
8.	Water Holding Capacity(WHC)	%	37.0	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	147.2	APHA-3125B
10.	Calcium (Ca)	mg/kg	1084.3	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	535.40	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.56	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	179.45	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	60.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	354.8	APHA-3125B
16.	Organic Matter	%	1.22	IS : 2720 (P-22)
17.	Organic Carbon	%	1.46	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.42	IS:3025(P-24)
19.	Porosity	%	21.42	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.92	ASTM 9214

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

CHECKED BY
SHRADDHA GURTA

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

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/3457/02/2023 DATE OF REPORT :10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS 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-3457
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : AGRICULTURE LAND NEAR BELARHI
Sampling Quantity : 2.0 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	55.7	IS:2720 (Pt-4)
3.	Silt	%	27.2	IS:2720 (Pt-4)
4.	Clay	%	17.1	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.86	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.45	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	339.68	IS:14767
8.	Water Holding Capacity(WHC)	%	33.48	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	154.86	APHA-3125B
10.	Calcium (Ca)	mg/kg	1085.22	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	546.12	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.47	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	179.5	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	43.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	254.00	APHA-3125B
16.	Organic Matter	%	1.2	IS : 2720 (P-22)
17.	Organic Carbon	%	1.81	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.12	IS:3025(P-24)
19.	Porosity	%	27.3	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.05	ASTM 9214

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

CHECKED BY
SHRADDHA GUPTA

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

Note:-
1. Test reports without ETS LOGO & 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 * days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO :ETS/3458/02/2023

DATE OF REPORT :10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS CLUSTER PROJECT
Date of Monitoring	:	18.02.2023
Monitoring Start Date	:	18.02.2023
Monitoring End Date	:	19.02.2023
Monitoring Done By	:	ETS STAFF
Monitoring Duration	:	24.0 HOURS
Place Of Monitoring	:	PROJECT SITE (SAND GHAT-1)
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	50.1	55
2.	Noise Level Night Time	Leq :dB (A)	38.4	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services
Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

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

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

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/728-1/02/2023 DATE OF REPORT :10-03-2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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-000
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	RAJPUR
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.56	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	484.7	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	196.2	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	207.9	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	80.3	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	50.4	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	13.1	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.8	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.29	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.13	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

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.

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-1/02/2023 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	22.1	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.30	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	570.3	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

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

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

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

ISO 45001

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

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

TEST REPORT

TEST REPORT NO : ETS/728-2/02/2023 DATE OF REPORT :10-03-2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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-728-2
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	ITWAN
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	---	7.94	6.5 - 8.5	No Relaxation	IS:3025 (Pt-11)
4.	Taste	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-8)
5.	Turbidity	NTU	<1.0	1	5	IS:3025 (Pt-10)
6.	Total Dissolve Solid (TDS)	mg/L	371.6	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	141.9	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	186.1	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	95.3	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	78.9	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	24.2	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.7	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.06	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.19	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-2/02/2023

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	19.0	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.14	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	540.4	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

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

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

CHECKED BY
SHRADDHA GUPTA

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

(A GOVERNMENT APPROVED LAB)

ISO 45001

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

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

TEST REPORT

TEST REPORT NO : ETS/728-3/02/2023 DATE OF REPORT :10-03-2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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-728-3
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	CHAANP
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	---	7.33	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	232.4	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	190.7	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	219.1	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	110.1	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	54.9	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	31.9	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	3.6	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.09	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.20	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

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 sample tested and not applicable to similar ones.
3. No complaints will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-3/02/2023

DATE OF REPORT :10-03-2023

WATERSAMPLE ANALYSIS REPORT

17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)
18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	17.0	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.26	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	406.0	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

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

CHECKED BY
SHRADDHA GUPTA

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

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-4/02/2023 DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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-728-4
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	BAGAH KOH
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	---	7.75	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	396.2	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	194.5	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	227.2	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	84.2	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	46.4	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	27.1	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	4.3	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.46	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)

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Pankaj Mittal
Lab In-charge

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-4/02/2023 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	29.5	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.39	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	493.2	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

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Pushkar Mittal
Lab In-charge

Note:-

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

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-5/02/2023 DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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-728-5
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	SEMRADIH
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	---	7.37	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	584.5	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	190.6	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	286.9	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	143.1	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	92.5	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	30.2	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.8	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.41	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.16	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)
17.	Selenium (Se)	mg/L	<0.01	0.01	No. Relaxation	APHA-3113 (B)

CHECKED BY
SHRADDHA GUPTA

For Enviro Tech Services

AUTHORIZED SIGNATORY
Prashant Mittal
Lab In-charge

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(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/728-5/02/2023 DATE OF REPORT : 10-03-2023

WATER SAMPLE ANALYSIS REPORT

18.	Cyanide (Cn)	mg/L	N.D	0.05	No. Relaxation	APHA-4500 (C)
19.	Copper(Cu)	mg/L	<0.04	0.05	1.5	APHA-3111(B)
20.	Magnesium (Mg)	mg/L	18.7	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.37	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	735.6	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Lab In-charge

Note: ENVIRO-TECH SERVICES LAB HOLOGRAM are not issued by our laboratory.

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-6/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 01 KOW RIVER SAND GHAT
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	:	KUDAR TOLA
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.37	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.5	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	476.3	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	194.8	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	246.3	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	119.2	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	68.5	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	46.9	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	3.50	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.43	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.22	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	17.72	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.68	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	715.0	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	17.0	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at $27^{O}C$ for 3 day)	mg/L	3.7	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.7	APHA-5210
34.	E. Coli	MPN/100ml	350	IS:1622-1981
35.	Total Coliform	MPN/100ml	1180	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	640	APHA-9221

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-7/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS 01 KOW RIVER SAND GHAT
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	:	BAGH KOH
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	---	7.70	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.2	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	514.5	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	197.9	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	284.0	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	104.4	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	51.4	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	35.9	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	5.97	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.35	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.23	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	20.29	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.47	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	731.8	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	19.3	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^{0}C for 3 day)	mg/L	4.3	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	7.8	APHA-5210
34.	E. Coli	MPN/100ml	320	IS:1622-1981
35.	Total Coliform	MPN/100ml	1100	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	590	APHA-9221

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

Note:-

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Laboratory In-charge

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/728-8/03/2023 DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS KOW RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : PROJECT SITE
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	07.12.2022	ETS/DI-01	62.7	34.4	13.7	21.1	0.31
2	10.12.2022	ETS/DI-02	60.1	33.4	13.0	23.5	0.44
3	12.12.2022	ETS/DI-03	59.8	32.9	14.3	16.6	0.39
4	15.12.2022	ETS/DI-04	59.3	32.7	13.2	18.9	0.44
5	19.12.2022	ETS/DI-05	62.4	29.3	17.0	23.7	0.69
6	22.12.2022	ETS/DI-06	62.9	33.8	15.4	22.6	0.65
7	26.12.2022	ETS/DI-07	58.4	31.5	13.6	19.2	0.66
8	30.12.2022	ETS/DI-08	64.9	32.5	17.4	23.3	0.44
9	03.01.2023	ETS/DI-09	63.0	32.1	16.1	23.1	0.39
10	06.01.2023	ETS/DI-10	67.7	34.3	15.1	22.5	0.36
11	10.01.2023	ETS/DI-11	55.0	33.4	16.4	19.9	0.66
12	13.01.2023	ETS/DI-12	59.2	34.0	14.0	20.6	0.33
13	17.01.2023	ETS/DI-13	53.7	29.5	14.9	19.4	0.63
14	20.01.2023	ETS/DI-14	57.2	33.5	10.8	22.8	0.34
15	23.01.2023	ETS/DI-15	54.5	32.9	16.7	19.0	0.49
16	27.01.2023	ETS/DI-16	59.5	31.1	16.8	19.5	0.65
17	03.02.2023	ETS/DI-17	58.9	32.3	13.5	18.5	0.36
18	07.02.2023	ETS/DI-18	58.0	33.0	14.1	22.0	0.78
19	10.02.2023	ETS/DI-19	57.0	35.0	14.3	20.3	0.34
20	13.02.2023	ETS/DI-20	62.6	33.4	12.1	22.2	0.68
21	17.02.2023	ETS/DI-21	57.2	30.9	14.3	25.1	0.35
22	20.02.2023	ETS/DI-22	62.5	34.4	15.1	27.0	0.34
23	26.02.2023	ETS/DI-23	57.2	31.6	14.3	18.6	0.64
24	03.03.2023	ETS/DI-24	68.7	27.5	16.8	19.4	0.32
Minimum			**53.7**	**27.5**	**10.8**	**16.6**	**0.31**
Maximum			**68.7**	**35.0**	**17.4**	**27.0**	**0.78**
Average			**60.1**	**32.5**	**14.7**	**21.2**	**0.49**
98 PERCENTILE			**68.2**	**34.7**	**17.2**	**26.1**	**0.74**

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

CHECKED BY
SHRADDHA GUPTA

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-9/03/2023

DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS KOW RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 12.12.2022
Analysis End Date : 06.03.2023
Sampling Done By : ETS STAFF
Sampling Location : RAJPUR
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-01	64.3	28.3	8.9	20.0	0.34
2	10.12.2022	ETS/DI-02	63.5	35.3	9.6	21.8	0.49
3	12.12.2022	ETS/DI-03	68.7	33.8	10.0	25.2	0.54
4	15.12.2022	ETS/DI-04	59.5	34.8	8.9	17.1	0.38
5	19.12.2022	ETS/DI-05	66.2	37.8	11.2	23.8	0.74
6	22.12.2022	ETS/DI-06	66.9	41.6	11.7	25.3	0.60
7	26.12.2022	ETS/DI-07	62.0	33.0	10.0	17.3	0.56
8	30.12.2022	ETS/DI-08	73.8	38.7	10.8	21.6	0.45
9	03.01.2023	ETS/DI-09	68.2	38.2	10.7	18.9	0.44
10	06.01.2023	ETS/DI-10	69.2	37.7	11.9	20.0	0.28
11	10.01.2023	ETS/DI-11	59.6	29.5	12.2	17.2	0.61
12	13.01.2023	ETS/DI-12	59.1	28.8	9.5	18.4	0.46
13	17.01.2023	ETS/DI-13	58.1	35.3	12.1	17.7	0.71
14	20.01.2023	ETS/DI-14	60.4	30.9	12.1	21.2	0.34
15	23.01.2023	ETS/DI-15	56.7	29.8	11.4	15.6	0.54
16	27.01.2023	ETS/DI-16	58.7	31.9	11.8	14.3	0.41
17	03.02.2023	ETS/DI-17	62.8	32.3	13.9	15.4	0.42
18	07.02.2023	ETS/DI-18	63.4	34.1	10.5	20.3	0.66
19	10.02.2023	ETS/DI-19	60.9	31.0	10.0	18.5	0.54
20	13.02.2023	ETS/DI-20	67.8	34.5	11.1	21.0	0.38
21	17.02.2023	ETS/DI-21	60.3	32.7	10.0	20.0	0.54
22	20.02.2023	ETS/DI-22	65.0	29.4	14.8	25.6	0.67
23	26.02.2023	ETS/DI-23	60.4	27.4	14.2	22.4	0.59
24	03.03.2023	ETS/DI-24	62.2	30.4	10.4	18.5	0.28
		Minimum	**56.7**	**27.4**	**8.9**	**14.3**	**0.28**
		Maximum	**73.8**	**41.6**	**14.8**	**25.6**	**0.74**
		Average	**63.2**	**33.2**	**11.2**	**19.9**	**0.50**
		98 PERCENTILE	**71.7**	**40.3**	**14.5**	**25.5**	**0.73**

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Pushkal Mittal
Lab In-charge

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-10/03/2023

DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS KOW RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 10.12.2022

Analysis End Date : 05.03.2023

Sampling Done By : ETS STAFF

Sampling Location : BAGHAILA

Sampling Method : ETS/STP/AIR-01

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

Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	09.12.2022	ETS/DI-25	67.7	28.8	9.8	27.3	0.29
2	12.12.2022	ETS/DI-26	69.4	30.2	12.5	30.6	0.29
3	16.12.2022	ETS/DI-27	69.9	33.1	11.0	21.9	0.50
4	19.12.2022	ETS/DI-28	63.4	34.2	10.3	23.8	0.38
5	23.12.2022	ETS/DI-29	76.5	38.0	9.8	30.8	0.38
6	26.12.2022	ETS/DI-30	79.9	37.2	12.9	29.1	0.59
7	30.12.2022	ETS/DI-31	75.7	34.4	11.0	24.1	0.49
8	01.01.2023	ETS/DI-32	73.3	38.0	10.1	30.4	0.73
9	05.01.2023	ETS/DI-33	77.3	42.4	14.2	30.2	0.57
10	09.01.2023	ETS/DI-34	73.1	37.1	12.7	29.0	0.80
11	12.01.2023	ETS/DI-35	63.6	34.9	14.7	25.3	0.34
12	15.01.2023	ETS/DI-36	62.7	35.6	15.8	26.5	0.42
13	19.01.2023	ETS/DI-37	61.7	34.6	11.9	25.1	0.67
14	22.01.2023	ETS/DI-38	64.3	38.0	13.5	29.5	0.34
15	28.01.2023	ETS/DI-39	59.9	34.4	12.9	24.1	0.54
16	31.01.2023	ETS/DI-40	62.5	31.8	13.2	25.2	0.76
17	04.02.2023	ETS/DI-41	66.9	33.8	11.3	21.7	0.42
18	08.02.2023	ETS/DI-42	69.4	34.5	10.7	28.7	0.46
19	11.02.2023	ETS/DI-43	64.7	35.3	11.0	26.0	0.50
20	14.02.2023	ETS/DI-44	72.2	37.1	12.2	28.8	0.71
21	19.02.2023	ETS/DI-45	64.3	31.0	11.0	32.9	0.50
22	23.02.2023	ETS/DI-46	69.2	36.7	12.7	32.0	0.26
23	27.02.2023	ETS/DI-47	64.4	34.6	12.2	26.1	0.54
24	04.03.2023	ETS/DI-48	66.4	34.1	11.3	23.8	0.48
		Minimum	59.9	28.8	9.8	21.7	0.26
		Maximum	79.9	42.4	15.8	32.9	0.80
		Average	68.3	35.0	12.0	27.2	0.50
		98 PERCENTILE	78.7	40.4	15.3	32.5	0.78

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-11/03/2023 DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS KOW RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 12.12.2022
Analysis End Date : 06.03.2023
Sampling Done By : ETS STAFF
Sampling Location : ITWAN
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	73.3	40.2	10.2	23.6	0.43
2	10.12.2022	ETS/DI-50	74.8	42.2	15.8	26.5	0.23
3	12.12.2022	ETS/DI-51	65.6	37.3	12.3	18.6	0.67
4	15.12.2022	ETS/DI-52	68.4	38.4	11.3	20.8	0.43
5	19.12.2022	ETS/DI-53	66.8	42.5	17.6	26.8	0.38
6	22.12.2022	ETS/DI-54	70.8	41.9	15.8	25.3	0.77
7	26.12.2022	ETS/DI-55	71.2	38.5	9.7	21.1	0.66
8	30.12.2022	ETS/DI-56	74.0	42.5	15.5	26.3	0.50
9	03.01.2023	ETS/DI-57	72.8	42.2	17.2	26.1	0.73
10	06.01.2023	ETS/DI-58	75.4	41.6	15.5	25.2	0.75
11	10.01.2023	ETS/DI-59	68.6	39.4	13.6	32.3	0.59
12	13.01.2023	ETS/DI-60	67.8	40.0	11.5	23.0	0.58
13	17.01.2023	ETS/DI-61	66.7	39.0	14.1	21.5	0.30
14	20.01.2023	ETS/DI-62	63.8	42.9	16.7	25.8	0.38
15	23.01.2023	ETS/DI-63	64.8	38.5	15.5	20.9	0.62
16	27.01.2023	ETS/DI-64	67.5	36.3	17.6	21.9	0.30
17	03.02.2023	ETS/DI-65	72.1	37.9	9.3	18.7	0.76
18	07.02.2023	ETS/DI-66	74.9	38.9	11.9	24.8	0.62
19	10.02.2023	ETS/DI-67	69.9	39.6	12.3	22.6	0.67
20	13.02.2023	ETS/DI-68	68.1	36.0	14.5	24.9	0.35
21	17.02.2023	ETS/DI-69	69.3	38.7	12.3	28.6	0.67
22	20.02.2023	ETS/DI-70	74.7	41.2	15.5	27.8	0.72
23	26.02.2023	ETS/DI-71	69.5	38.1	12.7	19.3	0.72
24	03.03.2023	ETS/DI-72	71.7	38.3	16.7	20.7	0.39
		Minimum	**63.8**	**36.0**	**9.3**	**18.6**	**0.23**
		Maximum	**75.4**	**42.9**	**17.6**	**32.3**	**0.77**
		Average	**70.1**	**39.7**	**14.0**	**23.9**	**0.55**
		98 PERCENTILE	**75.2**	**42.8**	**17.6**	**30.6**	**0.77**

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Pankaj Mittal
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

ISO 45001

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

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

TEST REPORT

TEST REPORT NO : ETS/728-12/03/2023

DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS KOW RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : CHAANP
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	76.4	44.2	14.8	25.2	0.38
2	12.12.2022	ETS/DI-74	78.1	46.3	15.5	28.5	0.49
3	16.12.2022	ETS/DI-75	68.6	40.7	12.4	20.7	0.38
4	19.12.2022	ETS/DI-76	67.5	38.5	13.7	22.1	0.43
5	23.12.2022	ETS/DI-77	69.8	46.6	7.8	28.6	0.28
6	26.12.2022	ETS/DI-78	73.9	45.6	9.8	27.1	0.35
7	30.12.2022	ETS/DI-79	74.4	42.2	14.4	22.5	0.41
8	01.01.2023	ETS/DI-80	77.1	46.6	14.0	28.2	0.57
9	05.01.2023	ETS/DI-81	75.8	46.3	15.5	27.9	0.79
10	09.01.2023	ETS/DI-82	78.7	45.5	12.4	27.0	0.70
11	12.01.2023	ETS/DI-83	71.7	43.1	15.1	23.7	0.47
12	15.01.2023	ETS/DI-84	70.7	43.7	10.1	24.3	0.74
13	19.01.2023	ETS/DI-85	69.6	42.7	9.3	23.1	0.69
14	22.01.2023	ETS/DI-86	70.5	46.7	11.2	27.5	0.40
15	28.01.2023	ETS/DI-87	67.7	42.2	12.4	22.5	0.57
16	31.01.2023	ETS/DI-88	70.5	44.2	14.0	23.2	0.79
17	04.02.2023	ETS/DI-89	75.3	41.6	14.0	20.7	0.44
18	08.02.2023	ETS/DI-90	80.0	42.4	15.5	26.5	0.70
19	11.02.2023	ETS/DI-91	73.1	43.3	15.1	24.1	0.66
20	14.02.2023	ETS/DI-92	71.2	45.5	14.8	26.7	0.53
21	19.02.2023	ETS/DI-93	72.4	47.3	10.1	32.4	0.66
22	23.02.2023	ETS/DI-94	78.0	45.2	11.2	29.7	0.79
23	27.02.2023	ETS/DI-95	72.6	41.7	12.4	26.1	0.90
24	04.03.2023	ETS/DI-96	74.7	42.0	14.0	22.0	0.75
		Minimum	**67.5**	**38.5**	**7.8**	**20.7**	**0.28**
		Maximum	**80.0**	**47.3**	**15.5**	**32.4**	**0.90**
		Average	**73.3**	**43.9**	**12.9**	**25.4**	**0.58**
		98 PERCENTILE	**79.4**	**47.0**	**15.5**	**31.2**	**0.85**

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

CHECKED BY SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY

Lab In-charge

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-13/03/2023 DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS KOW RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 12.12.2022
Analysis End Date : 06.03.2023
Sampling Done By : ETS STAFF
Sampling Location : BAGAH KOH
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	64.8	40.0	11.3	21.0	0.81
2	10.12.2022	ETS/DI-98	66.1	29.6	12.3	26.1	0.68
3	12.12.2022	ETS/DI-99	69.5	33.0	18.8	20.1	0.65
4	15.12.2022	ETS/DI-100	63.9	34.0	12.4	21.6	0.68
5	19.12.2022	ETS/DI-101	67.3	33.8	8.7	21.1	0.22
6	22.12.2022	ETS/DI-102	69.2	39.1	15.0	28.6	0.26
7	26.12.2022	ETS/DI-103	56.7	32.9	10.7	23.3	0.33
8	30.12.2022	ETS/DI-104	63.9	33.8	13.4	26.0	0.42
9	03.01.2023	ETS/DI-105	69.3	33.6	15.3	26.3	0.59
10	06.01.2023	ETS/DI-106	72.9	33.0	16.5	24.8	0.68
11	10.01.2023	ETS/DI-107	65.8	33.4	19.1	21.8	0.81
12	13.01.2023	ETS/DI-108	61.8	29.2	12.0	23.0	0.57
13	17.01.2023	ETS/DI-109	71.3	36.1	13.9	21.4	0.68
14	20.01.2023	ETS/DI-110	73.4	37.7	16.5	25.4	0.29
15	23.01.2023	ETS/DI-111	57.2	32.5	14.3	22.9	0.42
16	27.01.2023	ETS/DI-112	59.9	32.0	13.8	24.9	0.59
17	03.02.2023	ETS/DI-113	61.9	31.4	12.3	20.0	0.33
18	07.02.2023	ETS/DI-114	66.3	34.2	18.5	24.4	0.75
19	10.02.2023	ETS/DI-115	63.9	36.9	12.6	22.3	0.49
20	13.02.2023	ETS/DI-116	69.0	33.0	13.4	29.6	0.39
21	17.02.2023	ETS/DI-117	59.5	34.7	12.6	30.9	0.68
22	20.02.2023	ETS/DI-118	66.0	35.9	14.7	30.4	0.59
23	26.02.2023	ETS/DI-119	54.8	36.5	12.9	29.6	0.81
24	03.03.2023	ETS/DI-120	67.2	33.6	9.4	26.2	0.46
Minimum			**54.8**	**29.2**	**8.7**	**20.0**	**0.22**
Maximum			**73.4**	**40.0**	**19.1**	**30.9**	**0.81**
Average			**65.1**	**34.2**	**13.8**	**24.7**	**0.55**
98 PERCENTILE			**73.2**	**39.6**	**18.9**	**30.6**	**0.81**

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

CHECKED BY
SHRADDHA GUPTA

For Enviro Tech Services

Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-14/03/2023

DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS KOW RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : KUSHDHAR TOLA
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	69.4	38.7	10.9	24.6	0.27
2	10.12.2022	ETS/DI-146	72.6	40.4	11.7	27.7	0.24
3	12.12.2022	ETS/DI-147	78.0	35.8	9.9	25.3	0.21
4	15.12.2022	ETS/DI-148	66.5	36.8	18.1	19.0	0.44
5	19.12.2022	ETS/DI-149	71.3	40.8	11.8	24.4	0.31
6	22.12.2022	ETS/DI-150	74.2	39.9	10.6	23.2	0.50
7	26.12.2022	ETS/DI-151	69.7	35.4	11.9	17.7	0.63
8	30.12.2022	ETS/DI-152	73.8	40.8	15.6	21.3	0.53
9	03.01.2023	ETS/DI-153	76.6	40.4	11.8	20.4	0.75
10	06.01.2023	ETS/DI-154	70.3	41.9	10.5	20.4	0.56
11	10.01.2023	ETS/DI-155	64.2	37.6	11.1	20.2	0.19
12	13.01.2023	ETS/DI-156	66.0	38.3	11.7	21.0	0.52
13	17.01.2023	ETS/DI-157	66.0	39.6	10.2	16.2	0.50
14	20.01.2023	ETS/DI-158	60.5	41.1	10.8	23.5	0.75
15	23.01.2023	ETS/DI-159	61.0	37.0	11.4	19.1	0.69
16	27.01.2023	ETS/DI-160	61.2	40.6	15.7	17.7	0.56
17	03.02.2023	ETS/DI-161	68.4	36.4	14.8	18.0	0.70
18	07.02.2023	ETS/DI-162	71.1	37.2	13.6	22.8	0.69
19	10.02.2023	ETS/DI-163	66.3	71.6	9.9	20.7	0.78
20	13.02.2023	ETS/DI-164	75.7	39.8	10.3	20.4	0.25
21	17.02.2023	ETS/DI-165	65.7	42.2	10.2	27.3	0.50
22	20.02.2023	ETS/DI-166	70.8	43.8	12.8	31.4	0.85
23	26.02.2023	ETS/DI-167	66.0	39.6	10.0	26.0	0.75
24	03.03.2023	ETS/DI-168	67.9	38.3	11.7	24.2	0.48
		Minimum	60.5	35.4	9.9	16.2	0.19
		Maximum	78.0	71.6	18.1	31.4	0.85
		Average	68.9	40.6	12.0	22.2	0.53
		98 PERCENTILE	77.3	58.8	17.0	29.7	0.82

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/728-15/03/2023

DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS KOW RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 12.12.2022

Analysis End Date : 06.03.2023

Sampling Done By : ETS STAFF

Sampling Location : SEMRADIH

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	74.4	41.5	11.7	26.3	0.22
2	12.12.2022	ETS/DI-170	77.8	43.3	12.6	29.7	0.24
3	16.12.2022	ETS/DI-171	83.6	38.4	10.6	27.2	0.22
4	19.12.2022	ETS/DI-172	71.3	39.4	19.4	20.4	0.25
5	23.12.2022	ETS/DI-173	76.5	43.7	12.7	26.1	0.21
6	26.12.2022	ETS/DI-174	79.5	42.8	11.3	24.9	0.29
7	30.12.2022	ETS/DI-175	74.7	38.0	12.8	18.9	0.34
8	01.01.2023	ETS/DI-176	79.1	43.7	16.8	22.8	0.31
9	05.01.2023	ETS/DI-177	82.1	43.3	12.7	21.9	0.26
10	09.01.2023	ETS/DI-178	75.3	44.9	11.2	21.9	0.34
11	12.01.2023	ETS/DI-179	68.8	40.3	11.9	21.6	0.36
12	15.01.2023	ETS/DI-180	70.7	41.1	12.6	22.5	0.38
13	19.01.2023	ETS/DI-181	70.7	42.4	10.9	17.4	0.26
14	22.01.2023	ETS/DI-182	64.8	44.0	11.5	25.2	0.25
15	28.01.2023	ETS/DI-183	65.3	39.6	12.2	20.5	0.30
16	31.01.2023	ETS/DI-184	65.5	43.5	16.9	18.9	0.71
17	04.02.2023	ETS/DI-185	73.4	39.0	15.8	19.3	0.45
18	08.02.2023	ETS/DI-186	76.2	39.8	14.6	24.4	0.46
19	11.02.2023	ETS/DI-187	71.1	37.4	10.6	22.2	0.68
20	14.02.2023	ETS/DI-188	81.2	42.7	11.0	21.9	0.33
21	19.02.2023	ETS/DI-189	70.4	45.3	10.6	29.2	0.62
22	23.02.2023	ETS/DI-190	75.9	46.9	13.7	33.6	0.27
23	27.02.2023	ETS/DI-191	70.7	42.4	10.7	27.9	0.34
24	04.03.2023	ETS/DI-192	72.8	41.1	12.6	25.9	0.50
		Minimum	**64.8**	**37.4**	**10.6**	**17.4**	**0.21**
		Maximum	**83.6**	**46.9**	**19.4**	**33.6**	**0.71**
		Average	**73.8**	**41.9**	**12.8**	**23.8**	**0.36**
		98 PERCENTILE	**82.9**	**46.2**	**18.3**	**31.8**	**0.70**

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

CHECKED BY
SHRADDHA GUPTA

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

Note:-

1. Test reports without ETS LAB HOLOGRAM are not valid and no claim. Format No. QF-08 Rev. No. 03 Date 01.04.2019, Amd. No. 04 Date 01.04.2019
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ISO 45001

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-16/02/2023 DATE OF REPORT :10.03.2023

NOISE MONITORING REPORT

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

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	52.4	55
2.	Noise Level Night Time	Leq :dB (A)	36.2	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/728-17/02/2023 DATE OF REPORT :10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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	:	RAJPUR
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.1	55
2.	Noise Level Night Time	Leq :dB (A)	34.7	45

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

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

ENVIRO-TECH SERVICES ETS-LAB

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Pushkar Mittal
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/728-18/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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	:	BAGHAILA
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)	46.2	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****

CHECKED BY
SHRADDHA GUPTA

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-19/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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	:	ITWAN
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)	46.5	55
2.	Noise Level Night Time	Leq :dB (A)	33.2	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Kushkar Mittal
Lab In-charge

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-20/07/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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	:	CHAANP
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)	37.5	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-21/02/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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	:	BAGAH KOH
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)	50.1	55
2.	Noise Level Night Time	Leq :dB (A)	41.6	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-22/02/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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	:	KUSHDHAR TOLA
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)	44.1	55
2.	Noise Level Night Time	Leq :dB (A)	35.8	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/728-23/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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	:	SEMRADIH
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	48.3	55
2.	Noise Level Night Time	Leq :dB (A)	40.1	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/728-24/02/2023

DATE OF REPORT :10-03-2023

SOILSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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-728-24
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	RAJPUR
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	64.2	IS:2720 (Pt-4)
3.	Silt	%	25.2	IS:2720 (Pt-4)
4.	Clay	%	10.6	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.62	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.41	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	329.5	IS:14767
8.	Water Holding Capacity(WHC)	%	32.5	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	150.2	APHA-3125B
10.	Calcium (Ca)	mg/kg	1052.7	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	529.7	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.43	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	174.1	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	42.4	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	246.4	APHA-3125B
16.	Organic Matter	%	1.16	IS : 2720 (P-22)
17.	Organic Carbon	%	1.76	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.09	IS:3025(P-24)
19.	Porosity	%	26.48	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.02	ASTM 9214

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

ENVIRO TECH SERVICE ETS-LAB

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 disposed off after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used for any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

For Enviro-Tech Services

Pushkal Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-25/02/2023

DATE OF REPORT :10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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-728-25
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	ITWAN
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	%	56.3	IS:2720 (Pt-4)
3.	Silt	%	28.4	IS:2720 (Pt-4)
4.	Clay	%	15.3	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.64	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.78	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	338.3	IS:14767
8.	Water Holding Capacity(WHC)	%	35.9	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	142.8	APHA-3125B
10.	Calcium (Ca)	mg/kg	1051.8	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	519.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.51	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	174.1	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	58.9	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	344.2	APHA-3125B
16.	Organic Matter	%	1.18	IS : 2720 (P-22)
17.	Organic Carbon	%	1.42	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.35	IS:3025(P-24)
19.	Porosity	%	20.78	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.89	ASTM 9214

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

ENVIRO-TECH SERVICES

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/728-26/02/2023

DATE OF REPORT :10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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-728-26
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	BAGAH KOH
Sampling Quantity	:	2 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	54.4	IS:2720 (Pt-4)
3.	Silt	%	27.1	IS:2720 (Pt-4)
4.	Clay	%	18.5	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.88	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.60	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	331.9	IS:14767
8.	Water Holding Capacity(WHC)	%	36.8	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	170.2	APHA-3125B
10.	Calcium (Ca)	mg/kg	1161.0	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	476.6	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.24	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	181.3	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	53.3	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	306.7	APHA-3125B
16.	Organic Matter	%	0.93	IS : 2720 (P-22)
17.	Organic Carbon	%	1.60	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.41	IS:3025(P-24)
19.	Porosity	%	23.96	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.92	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 GUPTA

For Enviro-Tech Services

Pushkar Mittal
In Charge
AUTHORIZED SIGNATORY

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/728-27/02/2023 DATE OF REPORT :10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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-728-27
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	SEMRADIH
Sampling Quantity	:	2.0 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	58.1	IS:2720 (Pt-4)
3.	Silt	%	29.0	IS:2720 (Pt-4)
4.	Clay	%	12.9	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.29	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.32	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	316.7	IS:14767
8.	Water Holding Capacity(WHC)	%	41.2	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	130.9	APHA-3125B
10.	Calcium (Ca)	mg/kg	1180.2	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	529.5	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.28	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	162.5	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	42.4	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	254.1	APHA-3125B
16.	Organic Matter	%	1.09	IS : 2720 (P-22)
17.	Organic Carbon	%	1.34	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.06	IS:3025(P-24)
19.	Porosity	%	15.83	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.81	ASTM 9214

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
Lab In-Charge

AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-28/02/2023

DATE OF REPORT : 10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS KOW RIVER SAND GHAT 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-728-28
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	%	68.2	IS:2720 (Pt-4)
3.	Silt	%	20.3	IS:2720 (Pt-4)
4.	Clay	%	11.5	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.57	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.41	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	342.3	IS:14767
8.	Water Holding Capacity(WHC)	%	45.6	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	135.8	APHA-3125B
10.	Calcium (Ca)	mg/kg	980.3	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	416.2	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.67	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	212.4	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	53.7	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	314.3	APHA-3125B
16.	Organic Matter	%	1.30	IS : 2720 (P-22)
17.	Organic Carbon	%	1.46	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.18	IS:3025(P-24)
19.	Porosity	%	21.31	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.73	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 GUPTA

For Enviro-Tech Services

Pushkar Mittal
Technical Manager

AUTHORIZED SIGNATORY

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO :ETS/728-29/02/2023 DATE OF REPORT :10-03-2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	ROHTAS 01 THORA RIVER SAND GHAT
Date of Sampling	:	10-02-2023
Analysis Start Date	:	13-02-2023
Analysis End Date	:	16-02-2023
Sample ID No	:	ETS/SL 728-29
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-1 AWADHI
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	---	7.73	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	492.3	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	198.0	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	211.9	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	83.8	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	49.3	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	13.1	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.70	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.28	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.11	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

CHECKED BY
SHRADDHA GUPTA

For Enviro Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ISO 45001

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO :ETS/728-29/02/2023

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	22.60	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.29	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	579.3	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

For Enviro-Tech Services

Rishkar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

Note:-

1. Test reports without ETS LAB HOLOGRAM are not valid. Format No. QF-02, Issued No. 05, Date: 01.04.2019, Amd. No. 04 Date 01.04.2019
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(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/728-30/02/2023 DATE OF REPORT :10-03-2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	ROHTAS 01 THORA RIVER SAND GHAT
Date of Sampling	:	10-02-2023
Analysis Start Date	:	13-02-2023
Analysis End Date	:	16-02-2023
Sample ID No	:	ETS/SL-728-30
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-2 SEMARI
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	---	7.60	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	378.8	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	144.6	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	189.7	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	97.1	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	80.5	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	24.6	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	1.72	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.07	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.19	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

For Enviro-Tech Services

Prashkar Mittal
Lab In-charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

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

Note:-

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

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/728-30/02/2023

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	19.40	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	0.14	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	550.9	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable	---	IS:1622-1981

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

CHECKED BY
SHRADDHA GUPTA

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.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO :ETS/728-31/02/2023 DATE OF REPORT :10-03-2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	ROHTAS 01 THORA RIVER SAND GHAT
Date of Sampling	:	15-02-2023
Analysis Start Date	:	17-02-2023
Analysis End Date	:	20-02-2023
Sample ID No	:	ETS/SL-728-31
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-3 DHARKANDHA
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Drinking Water Standards / Limit (IS:10500 2012)		Test Method
				Desirable	Permissible	
1.	Colour	Hazen	<5.0	5	15	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	Agreeable	Agreeable	IS:3025 (Pt-5)
3.	pH	---	8.19	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	233.7	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	192.3	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	220.3	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	110.1	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	53.9	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	29.4	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	3.54	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.08	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.20	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

CHECKED BY
SHRADDHA GUPTA

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.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO :ETS/728-31/02/2023 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	16.43	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	410.6	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Prabhat Mittal
Lab In-charge

AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/728-32/02/2023 DATE OF REPORT :10-03-2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	ROHTAS 01 THORA RIVER SAND GHAT
Date of Sampling	:	20-02-2023
Analysis Start Date	:	23-02-2023
Analysis End Date	:	26-02-2023
Sample ID No	:	ETS/SL-728-32
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-4AKORHA
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	---	7.88	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	406.2	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	200.4	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	231.9	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	87.5	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	50.5	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	29.7	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	4.21	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.40	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.19	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

For Enviro-Tech Services

Pushkar Mittal

AUTHORIZED SIGNATORY

CHECKED BY
SHRADDHA GUPTA

Note:-

1. Test reports without ETS LAB HO NO ETS/MB/FR-02 issued No. 05 Date 01.04.2019, Amd. No. 04 Date 01.04.2019
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

(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/728-32/02/2023 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	25.58	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.40	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	497.6	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Prabhat Mittal
(Lab In-charge)

AUTHORIZED SIGNATORY

Note:-

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

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-33/02/2023 DATE OF REPORT :10-03-2023

WATER SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	ROHTAS 01 THORA RIVER SAND GHAT
Date of Sampling	:	20-02-2023
Analysis Start Date	:	23-02-2023
Analysis End Date	:	26-02-2023
Sample ID No	:	ETS/SL-728-33
Sampling Done By	:	ETS STAFF
Sampling Description	:	GROUND WATER
Sampling Location	:	GW-5JAMSONA
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	---	7.44	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	593.3	500	2000	IS:3025 (Pt-16)
7.	Total Alkalinity ($CaCO_3$)	mg/L	192.2	200	600	IS:3025 (Pt-23)
8.	TotalHardness(CaCO3)	mg/L	290.4	200	600	IS:3025 (Pt-21)
9.	Chloride (Cl)	mg/L	142.8	250	1000	IS:3025 (Pt-32)
10.	Calcium (Ca)	mg/L	94.4	75	200	IS:3025 (Pt-40)
11.	Mineral Oil	mg/L	<0.01	0.5	No Relaxation	IS:3025 (Pt-39)
12.	Sulphate (SO_4)	mg/L	30.6	200	400	IS:3025 (Pt-24)
13.	Nitrate (NO_3)	mg/L	2.75	45	No Relaxation	IS:3025 (Pt-34)
14.	Fluoride (F)	mg/L	0.40	1	1.5	IS:3025 (Pt-60)
15.	Iron (Fe)	mg/L	0.14	0.3	No Relaxation	IS:3025 (Pt-53)
16.	Aluminium (Al)	mg/L	<0.02	0.03	0.2	APHA-3500 (B)

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

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.

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-33/02/2023 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	19.18	30	100	IS:3025 (Pt-45)
21.	Manganese(Mn)	mg/L	<0.1	0.1	0.3	APHA-3111(B)
22.	Zinc(Zn)	mg/L	0.35	5	15	APHA-3111 (B)
23.	Cadmium(Cd)	mg/L	<0.001	0.003	No. Relaxation	APHA-3111 (B)
24.	Lead(Pb)	mg/L	<0.01	0.01	No. Relaxation	APHA-3111 (B)
25.	Mercury(Hg)	mg/L	<0.001	0.001	No. Relaxation	APHA-3112 (B)
26.	Nickel (Ni)	mg/L	<0.01	0.02	No. Relaxation	APHA-3111 (B)
27.	Arsenic(As)	mg/L	<0.01	0.01	0.05	APHA-3500 (B)
28.	Chromium (Cr+6)	mg/L	<0.01	0.05	No. Relaxation	APHA-3500 Cr-B
29.	Phenolic Compound (C6H5OH)	mg/L	<0.001	0.001	0.002	APHA-5530
30.	Conductivity (25 °C)	mhos/cm	745.7	Not Specified	Not Specified	APHA-2510
31.	E. Coli	Coli/100ml	Absent	Shall Not Be Detectable		IS:1622-1981
32.	Total Coliform	MPN/100ml	Absent	Shall Not Be Detectable		IS:1622-1981

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

CHECKED BY
SHRADDHA GUPTA

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-34/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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	:	THORA RIVER(UPSTREAM)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.47	IS:3025 (Pt-11)
4.	Turbidity	NTU	11.56	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	481.0	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	196.7	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	248.8	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	122.4	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	71.3	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	45.30	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	3.99	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.40	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.21	IS:3025 (Pt-53)
15.	Aluminium (Al)	mg/L	<0.01	APHA-3500 (B)
16.	Selenium (Se)	mg/L	<0.01	APHA-3113 (B)
17.	Cyanide (Cn)	mg/L	<0.02	APHA-4500 (C)
18.	Copper(Cu)	mg/L	<0.05	APHA-3111(B)
19.	Magnesium (Mg)	mg/L	18.0	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.71	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	718.2	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	17.2	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^{0}C for 3 day)	mg/L	3.74	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	5.12	APHA-5210
34.	E. Coli	MPN/100ml	450	IS:1622-1981
35.	Total Coliform	MPN/100ml	1470	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	830	APHA-9221

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY
Lab In-charge

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-35/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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	:	THORA RIVER(DOWNSTREAM)
Sampling Method	:	ETS/STP/WATER-01
Sampling Quantity	:	2.0 +0.5 Lt.
Packing Condition	:	SEALED
Packed In	:	P.V.C. AND GLASS BOTTLE

S. No.	Test Parameters	Unit	Result	Test Method
1.	Colour	Hazen	<5.0	IS:3025 (Pt-4)
2.	Odour	---	Agreeable	IS:3025 (Pt-5)
3.	pH	---	7.75	IS:3025 (Pt-11)
4.	Turbidity	NTU	10.29	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	509.4	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	199.9	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	286.7	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	105.9	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	51.0	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	36.39	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	6.07	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.33	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	20.5	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.48	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	738.9	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	18.9	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at $27^{O}C$ for 3 day)	mg/L	3.23	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.56	APHA-5210
34.	E. Coli	MPN/100ml	580	IS:1622-1981
35.	Total Coliform	MPN/100ml	1830	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	1060	APHA-9221

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

For Enviro-Tech Services

Rushkar Mittal
Lab In Charge

AUTHORIZED SIGNATORY

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No claim shall 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 of issue of test report. Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

CHECKED BY
SHRADDHA GUPTA

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/728-36/02/2023 DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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	:	POND, AWADHI
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	---	7.64	IS:3025 (Pt-11)
4.	Turbidity	NTU	12.41	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	403.8	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	197.0	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	260.3	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	80.5	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	54.6	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	40.63	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	3.44	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.43	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	9.5	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.53	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	632.4	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	20.2	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^{0}C for 3 day)	mg/L	5.20	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	4.37	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****

For Enviro-Tech Services

Pushkar Mittal
Lab In Charge

AUTHORIZED SIGNATORY

Note:-

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No claim 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 of issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

CHECKED BY: SHRADDHA GUPTA

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

(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/728-37/02/2023

DATE OF REPORT : 10.03.2023

WATERSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT CLUSTER PROJECT
Date of Sampling	:	20.02.2023
Analysis Start Date	:	22.02.2023
Analysis End Date	:	25.02.2023
Sampling Done By	:	ETS STAFF
Sampling Description	:	SURFACE WATER
Sampling Location	:	CANAL, SEMARI
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	---	7.16	IS:3025 (Pt-11)
4.	Turbidity	NTU	9.87	IS:3025 (Pt-10)
5.	Total Dissolve Solid (TDS)	mg/L	444.9	IS:3025 (Pt-16)
6.	Total Alkalinity ($CaCO_3$)	mg/L	180.4	IS:3025 (Pt-23)
7.	TotalHardness(CaCO3)	mg/L	143.3	IS:3025 (Pt-21)
8.	Chloride (Cl)	mg/L	92.0	IS:3025 (Pt-32)
9.	Calcium (Ca)	mg/L	44.4	IS:3025 (Pt-40)
10.	Mineral Oil	mg/L	<0.01	IS:3025 (Pt-39)
11.	Sulphate (SO_4)	mg/L	30.13	IS:3025 (Pt-24)
12.	Nitrate (NO_3)	mg/L	1.26	IS:3025 (Pt-34)
13.	Fluoride (F)	mg/L	0.36	IS:3025 (Pt-60)
14.	Iron (Fe)	mg/L	0.11	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	14.4	IS:3025 (Pt-45)
20.	Manganese(Mn)	mg/L	<0.1	APHA-3111(B)
21.	Zinc(Zn)	mg/L	0.50	APHA-3111 (B)
22.	Cadmium(Cd)	mg/L	<0.001	APHA-3111 (B)
23.	Lead(Pb)	mg/L	<0.01	APHA-3111 (B)
24.	Boron	Mg/L	<0.05	IS:3026(Pt-57)
25.	Mercury(Hg)	mg/L	<0.001	APHA-3112 (B)
26.	Molybdenum(mo)	mg/L	<0.05	IS:3025(Pt-2)
27.	Nickel (Ni)	mg/L	<0.01	APHA-3111 (B)
28.	Arsenic(As)	mg/L	<0.01	APHA-3500 (B)
29.	Chromium (Cr+6)	mg/L	<0.01	APHA-3500 Cr-B
30.	Conductivity (25 °C)	µs/Cm	643.9	APHA-2510
31.	Chemical Oxygen Demand (COD)	mg/L	20.7	APHA-5220 (B)
32.	Biological Oxygen Demand (BOD at 27^{0}C for 3 day)	mg/L	4.37	APHA-4500 (D)
33.	Dissolve Oxygen (DO)	mg/L	3.95	APHA-5210
34.	E. Coli	MPN/100ml	280	IS:1622-1981
35.	Total Coliform	MPN/100ml	980	IS:1622-1981
36.	Faecal Coliform	MPN/100ml	510	APHA-9221

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

For Enviro-Tech Services

Rishikar Mittal

AUTHORIZED SIGNATORY

Incharge

CHECKED BY

SHRADDHA GUPTA

Notes:

1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaints 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 of issue of test report. Perishable samples will be disposed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

ISO 45001

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

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

TEST REPORT

TEST REPORT NO : ETS/728-38/03/2023

DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : PROJECT SITE
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	07.12.2022	ETS/DI-01	64.0	35.1	14.0	21.5	0.45
2	10.12.2022	ETS/DI-02	61.3	34.1	13.2	24.0	0.24
3	12.12.2022	ETS/DI-03	61.0	33.5	14.5	17.0	0.70
4	15.12.2022	ETS/DI-04	60.5	33.3	13.4	19.3	0.45
5	19.12.2022	ETS/DI-05	63.6	29.9	17.3	24.1	0.40
6	22.12.2022	ETS/DI-06	64.2	34.5	15.8	23.0	0.80
7	26.12.2022	ETS/DI-07	59.6	32.1	13.9	19.6	0.69
8	30.12.2022	ETS/DI-08	66.2	33.1	17.7	23.8	0.52
9	03.01.2023	ETS/DI-09	64.2	32.8	16.4	23.6	0.76
10	06.01.2023	ETS/DI-10	69.0	35.0	15.4	22.9	0.78
11	10.01.2023	ETS/DI-11	56.1	34.1	16.7	20.3	0.62
12	13.01.2023	ETS/DI-12	60.4	34.7	14.3	21.0	0.60
13	17.01.2023	ETS/DI-13	54.8	30.1	15.2	19.8	0.31
14	20.01.2023	ETS/DI-14	58.3	34.1	11.0	23.2	0.40
15	23.01.2023	ETS/DI-15	55.6	33.5	17.1	19.4	0.65
16	27.01.2023	ETS/DI-16	60.7	31.8	17.2	19.9	0.31
17	03.02.2023	ETS/DI-17	60.1	33.0	13.8	18.8	0.79
18	07.02.2023	ETS/DI-18	59.1	33.7	14.4	22.5	0.65
19	10.02.2023	ETS/DI-19	58.2	35.7	14.5	20.7	0.70
20	13.02.2023	ETS/DI-20	63.9	34.1	12.3	22.7	0.36
21	17.02.2023	ETS/DI-21	58.3	31.5	14.5	25.6	0.70
22	20.02.2023	ETS/DI-22	63.7	35.1	15.4	27.5	0.75
23	26.02.2023	ETS/DI-23	58.3	32.2	14.5	18.9	0.75
24	03.03.2023	ETS/DI-24	70.1	28.0	17.2	19.8	0.41
		Minimum	**54.8**	**28.0**	**11.0**	**17.0**	**0.24**
		Maximum	**70.1**	**35.7**	**17.7**	**27.5**	**0.80**
		Average	**61.3**	**33.1**	**15.0**	**21.6**	**0.57**
		98 PERCENTILE	**69.6**	**35.4**	**17.5**	**26.6**	**0.80**

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

For Enviro-Tech Services

Rishkas Jain
Lab In-charge

AUTHORIZED SIGNATORY

CHECKED BY
SHRADDHA GUPTA

Note:- This test report is issued subject to the terms and conditions mentioned in Doc. No. ETS/QP/F-02, Issue No. 05 Date 01.04.2019, Amd. No. 04 Date 01.04.2019

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-39/03/2023 DATE OF REPORT : 10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 12.12.2022
Analysis End Date : 06.03.2023
Sampling Done By : ETS STAFF
Sampling Location : AWADHI
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-01	65.6	28.9	9.1	20.4	0.40
2	10.12.2022	ETS/DI-02	64.8	36.0	9.8	22.3	0.51
3	12.12.2022	ETS/DI-03	70.0	34.4	10.2	25.7	0.39
4	15.12.2022	ETS/DI-04	60.7	35.5	9.1	17.5	0.45
5	19.12.2022	ETS/DI-05	67.5	38.5	11.4	24.3	0.29
6	22.12.2022	ETS/DI-06	68.3	42.4	11.9	25.8	0.36
7	26.12.2022	ETS/DI-07	63.2	33.7	10.2	17.7	0.43
8	30.12.2022	ETS/DI-08	75.3	39.5	11.0	22.1	0.59
9	03.01.2023	ETS/DI-09	69.6	39.0	10.9	19.3	0.82
10	06.01.2023	ETS/DI-10	70.6	38.5	12.1	20.4	0.72
11	10.01.2023	ETS/DI-11	60.8	30.1	12.5	17.6	0.49
12	13.01.2023	ETS/DI-12	60.3	29.4	9.7	18.8	0.77
13	17.01.2023	ETS/DI-13	59.2	36.0	12.4	18.0	0.72
14	20.01.2023	ETS/DI-14	61.6	31.5	12.4	21.6	0.41
15	23.01.2023	ETS/DI-15	57.8	30.4	11.6	15.9	0.59
16	27.01.2023	ETS/DI-16	59.9	32.5	12.0	14.6	0.82
17	03.02.2023	ETS/DI-17	64.0	33.0	14.1	15.7	0.46
18	07.02.2023	ETS/DI-18	64.7	34.8	10.7	20.7	0.72
19	10.02.2023	ETS/DI-19	62.1	31.7	10.2	18.9	0.69
20	13.02.2023	ETS/DI-20	69.2	35.1	11.3	21.4	0.55
21	17.02.2023	ETS/DI-21	61.5	33.3	10.2	20.4	0.69
22	20.02.2023	ETS/DI-22	66.3	30.0	15.1	26.1	0.82
23	26.02.2023	ETS/DI-23	61.7	28.0	14.5	22.8	0.94
24	03.03.2023	ETS/DI-24	63.5	31.0	10.6	18.9	0.78
		Minimum	57.8	28.0	9.1	14.6	0.29
		Maximum	75.3	42.4	15.1	26.1	0.94
		Average	64.5	33.9	11.4	20.3	0.60
		98 PERCENTILE	73.1	41.1	14.8	26.0	0.88

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

For Enviro-Tech Services

Authorized Signatory

CHECKED BY
SHRADDHA GUPTA

Page 1 of 1

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 list of applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value only.
5. The sample shall be destroyed after 15 days & Biological / Perishable sample shall be destroyed immediately after issue of test report.
6. This test report shall not be used in any advertising media or as evidence in the court of Law without prior written permission of the laboratory.

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

TEST REPORT

TEST REPORT NO : ETS/728-40/03/2023 DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : DW (500M) NEARBY DHARKANDHA
Sampling Method : ETS/STP/AIR-01
Sampling Machine Placed At Height : 1.5 MTR. (FROM GROUND)
Weather Condition : CLEAR

Test Parameters			Particulate Matter(PM10)	Particulate Matter(PM2.5)	Sulphur Dioxide(SO2)	Nitrogen Dioxide(NO2)	Carbon Monoxide(CO)
Unit			µg/m3	µg/m3	µg/m3	µg/m3	mg/m3
Limit (as Per CPCB)			24 Hrs.=100	24 Hrs.=60	24 Hrs.=80	24 Hrs.=80	1 Hrs.=04
Test Method			IS 5182 (Part-23)	ETS/STP/AIR-03	IS: 5182 (Part-2)	IS: 5182 (Part-6)	IS 5182 (Part-10)
Sl.N.	Monitoring Date	Sample ID	Test Results				
1	09.12.2022	ETS/DI-25	66.3	28.2	9.6	26.8	0.85
2	12.12.2022	ETS/DI-26	68.0	29.6	12.2	30.0	0.71
3	16.12.2022	ETS/DI-27	68.5	32.4	10.8	21.5	0.68
4	19.12.2022	ETS/DI-28	62.1	33.5	10.1	23.4	0.71
5	23.12.2022	ETS/DI-29	74.9	37.2	9.6	30.1	0.23
6	26.12.2022	ETS/DI-30	78.3	36.4	12.7	28.6	0.27
7	30.12.2022	ETS/DI-31	74.2	33.7	10.8	23.6	0.34
8	01.01.2023	ETS/DI-32	71.8	37.2	9.9	29.8	0.44
9	05.01.2023	ETS/DI-33	75.7	41.5	13.9	29.6	0.61
10	09.01.2023	ETS/DI-34	71.6	36.3	12.4	28.4	0.71
11	12.01.2023	ETS/DI-35	62.3	34.2	14.4	24.8	0.85
12	15.01.2023	ETS/DI-36	61.4	34.9	15.5	26.0	0.59
13	19.01.2023	ETS/DI-37	60.5	33.9	11.7	24.6	0.71
14	22.01.2023	ETS/DI-38	63.1	37.2	13.2	28.9	0.31
15	28.01.2023	ETS/DI-39	58.7	33.7	12.7	23.6	0.44
16	31.01.2023	ETS/DI-40	61.2	31.2	13.0	24.7	0.61
17	04.02.2023	ETS/DI-41	65.5	33.1	11.0	21.2	0.34
18	08.02.2023	ETS/DI-42	68.0	33.9	10.5	28.1	0.78
19	11.02.2023	ETS/DI-43	63.4	34.6	10.8	25.5	0.51
20	14.02.2023	ETS/DI-44	70.7	36.3	12.0	28.2	0.41
21	19.02.2023	ETS/DI-45	63.0	30.4	10.8	32.3	0.71
22	23.02.2023	ETS/DI-46	67.8	36.0	12.4	31.4	0.61
23	27.02.2023	ETS/DI-47	63.2	33.9	12.0	25.6	0.85
24	04.03.2023	ETS/DI-48	65.1	33.4	11.0	23.4	0.48
Minimum			58.7	28.2	9.6	21.2	0.23
Maximum			78.3	41.5	15.5	32.3	0.85
Average			66.9	34.3	11.8	26.7	0.57
98 PERCENTILE			77.1	39.5	15.0	31.9	0.85

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

CHECKED BY
SHRADDHA GUPTA

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

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

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

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

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/728-41/03/2023

DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 12.12.2022

Analysis End Date : 06.03.2023

Sampling Done By : ETS STAFF

Sampling Location : SEMARI

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	66.0	36.2	10.6	24.6	0.28
2	10.12.2022	ETS/DI-50	67.3	37.9	16.5	27.5	0.25
3	12.12.2022	ETS/DI-51	59.0	33.5	12.8	19.3	0.22
4	15.12.2022	ETS/DI-52	61.5	34.6	11.8	21.6	0.46
5	19.12.2022	ETS/DI-53	60.2	38.3	18.3	27.9	0.33
6	22.12.2022	ETS/DI-54	63.7	37.7	16.5	26.3	0.52
7	26.12.2022	ETS/DI-55	64.0	34.7	10.1	21.9	0.65
8	30.12.2022	ETS/DI-56	66.6	38.3	16.1	27.4	0.56
9	03.01.2023	ETS/DI-57	65.5	37.9	17.9	27.2	0.78
10	06.01.2023	ETS/DI-58	67.9	37.4	16.1	26.2	0.59
11	10.01.2023	ETS/DI-59	61.7	35.4	14.2	33.6	0.20
12	13.01.2023	ETS/DI-60	61.0	36.0	12.0	24.0	0.55
13	17.01.2023	ETS/DI-61	60.1	35.1	14.7	22.4	0.52
14	20.01.2023	ETS/DI-62	57.4	38.6	17.4	26.8	0.78
15	23.01.2023	ETS/DI-63	58.3	34.7	16.1	21.8	0.72
16	27.01.2023	ETS/DI-64	60.8	32.7	18.3	22.7	0.59
17	03.02.2023	ETS/DI-65	64.9	34.1	9.7	19.4	0.73
18	07.02.2023	ETS/DI-66	67.4	35.0	12.4	25.8	0.72
19	10.02.2023	ETS/DI-67	62.9	35.6	12.8	23.5	0.81
20	13.02.2023	ETS/DI-68	61.3	32.4	15.1	25.9	0.26
21	17.02.2023	ETS/DI-69	62.4	34.8	12.8	29.7	0.52
22	20.02.2023	ETS/DI-70	67.2	37.1	16.1	28.9	0.88
23	26.02.2023	ETS/DI-71	62.6	34.3	13.2	20.1	0.78
24	03.03.2023	ETS/DI-72	64.6	34.5	17.4	21.5	0.50
		Minimum	57.4	32.4	9.7	19.3	0.20
		Maximum	67.9	38.6	18.3	33.6	0.88
		Average	63.1	35.7	14.5	24.8	0.55
		98 PERCENTILE	67.7	38.5	18.3	31.8	0.85

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

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

ISO 45001

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

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

TEST REPORT

TEST REPORT NO : ETS/728-42/03/2023

DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 10.12.2022

Analysis End Date : 05.03.2023

Sampling Done By : ETS STAFF

Sampling Location : DHARKANDHA

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	72.6	41.9	14.0	24.0	0.23
2	12.12.2022	ETS/DI-74	74.2	44.0	14.7	27.1	0.26
3	16.12.2022	ETS/DI-75	65.1	38.6	11.8	19.7	0.23
4	19.12.2022	ETS/DI-76	64.1	36.5	13.0	21.0	0.26
5	23.12.2022	ETS/DI-77	66.3	44.3	7.4	27.2	0.23
6	26.12.2022	ETS/DI-78	70.2	43.3	9.3	25.7	0.30
7	30.12.2022	ETS/DI-79	70.6	40.1	13.7	21.3	0.35
8	01.01.2023	ETS/DI-80	73.3	44.3	13.3	26.8	0.33
9	05.01.2023	ETS/DI-81	72.0	44.0	14.7	26.5	0.27
10	09.01.2023	ETS/DI-82	74.7	43.3	11.8	25.6	0.36
11	12.01.2023	ETS/DI-83	68.1	40.9	14.4	22.5	0.38
12	15.01.2023	ETS/DI-84	67.2	41.5	9.6	23.1	0.40
13	19.01.2023	ETS/DI-85	66.1	40.6	8.8	22.0	0.27
14	22.01.2023	ETS/DI-86	67.0	44.4	10.6	26.2	0.26
15	28.01.2023	ETS/DI-87	64.4	40.1	11.8	21.3	0.32
16	31.01.2023	ETS/DI-88	67.0	42.0	13.3	22.1	0.74
17	04.02.2023	ETS/DI-89	71.5	39.5	13.3	19.7	0.47
18	08.02.2023	ETS/DI-90	76.0	40.3	14.7	25.2	0.48
19	11.02.2023	ETS/DI-91	69.4	41.2	14.4	22.9	0.71
20	14.02.2023	ETS/DI-92	67.7	43.3	14.0	25.3	0.35
21	19.02.2023	ETS/DI-93	68.8	44.9	9.6	30.8	0.65
22	23.02.2023	ETS/DI-94	74.1	42.9	10.6	28.3	0.29
23	27.02.2023	ETS/DI-95	69.0	39.6	11.8	24.8	0.36
24	04.03.2023	ETS/DI-96	71.0	39.9	13.3	20.9	0.52
		Minimum	**64.1**	**36.5**	**7.4**	**19.7**	**0.23**
		Maximum	**76.0**	**44.9**	**14.7**	**30.8**	**0.74**
		Average	**69.6**	**41.7**	**12.3**	**24.2**	**0.38**
		98 PERCENTILE	**75.4**	**44.7**	**14.7**	**29.6**	**0.73**

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

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

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

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/728-43/03/2023 DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 12.12.2022
Analysis End Date : 06.03.2023
Sampling Done By : ETS STAFF
Sampling Location : MEDNIPUR
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	58.3	36.0	10.7	19.9	0.32
2	10.12.2022	ETS/DI-98	59.5	26.6	11.7	24.8	0.46
3	12.12.2022	ETS/DI-99	62.6	29.7	17.8	19.1	0.40
4	15.12.2022	ETS/DI-100	57.5	30.6	11.8	20.5	0.46
5	19.12.2022	ETS/DI-101	60.6	30.4	8.2	20.0	0.73
6	22.12.2022	ETS/DI-102	62.3	35.2	14.3	27.2	0.68
7	26.12.2022	ETS/DI-103	51.1	29.6	10.2	22.2	0.70
8	30.12.2022	ETS/DI-104	57.5	30.4	12.8	24.7	0.46
9	03.01.2023	ETS/DI-105	62.4	30.3	14.6	25.0	0.40
10	06.01.2023	ETS/DI-106	65.6	29.7	15.6	23.6	0.38
11	10.01.2023	ETS/DI-107	59.2	30.1	18.1	20.7	0.69
12	13.01.2023	ETS/DI-108	55.6	26.3	11.4	21.9	0.35
13	17.01.2023	ETS/DI-109	64.1	32.5	13.2	20.3	0.66
14	20.01.2023	ETS/DI-110	66.0	33.9	15.6	24.2	0.36
15	23.01.2023	ETS/DI-111	51.5	29.3	13.6	21.8	0.52
16	27.01.2023	ETS/DI-112	53.9	28.8	13.1	23.7	0.68
17	03.02.2023	ETS/DI-113	55.7	28.3	11.7	19.0	0.37
18	07.02.2023	ETS/DI-114	59.7	30.8	17.5	23.2	0.82
19	10.02.2023	ETS/DI-115	57.5	33.2	12.0	21.1	0.36
20	13.02.2023	ETS/DI-116	62.1	29.7	12.8	28.1	0.71
21	17.02.2023	ETS/DI-117	53.5	31.3	12.0	29.3	0.37
22	20.02.2023	ETS/DI-118	59.4	32.3	14.0	28.9	0.36
23	26.02.2023	ETS/DI-119	49.3	32.9	12.3	28.1	0.67
24	03.03.2023	ETS/DI-120	60.5	30.3	8.9	24.9	0.34
		Minimum	**49.3**	**26.3**	**8.2**	**19.0**	**0.32**
		Maximum	**66.0**	**36.0**	**18.1**	**29.3**	**0.82**
		Average	**58.6**	**30.8**	**13.1**	**23.4**	**0.51**
		98 PERCENTILE	**65.8**	**35.6**	**18.0**	**29.1**	**0.78**

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

For Enviro-Tech Services

Pushpa Mittal
Lab In charge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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/728-44/03/2023 DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 10.12.2022
Analysis End Date : 05.03.2023
Sampling Done By : ETS STAFF
Sampling Location : AKORHA
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	65.9	36.8	10.4	23.3	0.35
2	10.12.2022	ETS/DI-146	68.9	38.4	11.1	26.4	0.51
3	12.12.2022	ETS/DI-147	74.1	34.0	9.4	24.1	0.57
4	15.12.2022	ETS/DI-148	63.2	34.9	17.2	18.1	0.40
5	19.12.2022	ETS/DI-149	67.8	38.8	11.2	23.2	0.78
6	22.12.2022	ETS/DI-150	70.5	37.9	10.0	22.1	0.63
7	26.12.2022	ETS/DI-151	66.2	33.7	11.3	16.8	0.59
8	30.12.2022	ETS/DI-152	70.1	38.8	14.9	20.2	0.47
9	03.01.2023	ETS/DI-153	72.8	38.4	11.2	19.4	0.46
10	06.01.2023	ETS/DI-154	66.8	39.8	9.9	19.4	0.29
11	10.01.2023	ETS/DI-155	61.0	35.8	10.6	19.2	0.65
12	13.01.2023	ETS/DI-156	62.7	36.4	11.1	20.0	0.49
13	17.01.2023	ETS/DI-157	62.7	37.6	9.7	15.4	0.75
14	20.01.2023	ETS/DI-158	57.5	39.0	10.2	22.3	0.35
15	23.01.2023	ETS/DI-159	57.9	35.1	10.9	18.1	0.57
16	27.01.2023	ETS/DI-160	58.1	38.6	15.0	16.8	0.43
17	03.02.2023	ETS/DI-161	65.0	34.6	14.0	17.1	0.44
18	07.02.2023	ETS/DI-162	67.6	35.3	13.0	21.6	0.69
19	10.02.2023	ETS/DI-163	63.0	68.0	9.4	19.7	0.57
20	13.02.2023	ETS/DI-164	72.0	37.8	9.8	19.4	0.40
21	17.02.2023	ETS/DI-165	62.4	40.1	9.7	25.9	0.57
22	20.02.2023	ETS/DI-166	67.3	41.6	12.1	29.8	0.70
23	26.02.2023	ETS/DI-167	62.7	37.6	9.5	24.7	0.62
24	03.03.2023	ETS/DI-168	64.5	36.4	11.1	23.0	0.29
		Minimum	57.5	33.7	9.4	15.4	0.29
		Maximum	74.1	68.0	17.2	29.8	0.78
		Average	65.4	38.6	11.4	21.1	0.52
		98 PERCENTILE	73.5	55.9	16.2	28.2	0.76

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-45/03/2023 DATE OF REPORT :10.03.2023

AMBIENT AIR QUALITY MONITORING AND ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT CLUSTER PROJECT

Analysis Start Date : 12.12.2022
Analysis End Date : 06.03.2023
Sampling Done By : ETS STAFF
Sampling Location : JAMSONA
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	72.2	40.2	11.4	25.6	0.31
2	12.12.2022	ETS/DI-170	75.5	42.0	12.2	28.8	0.31
3	16.12.2022	ETS/DI-171	81.0	37.2	10.3	26.4	0.53
4	19.12.2022	ETS/DI-172	69.2	38.2	18.9	19.8	0.40
5	23.12.2022	ETS/DI-173	74.2	42.4	12.3	25.4	0.40
6	26.12.2022	ETS/DI-174	77.2	41.5	11.0	24.2	0.62
7	30.12.2022	ETS/DI-175	72.5	36.8	12.4	18.4	0.52
8	01.01.2023	ETS/DI-176	76.8	42.4	16.3	22.2	0.76
9	05.01.2023	ETS/DI-177	79.7	42.0	12.3	21.3	0.60
10	09.01.2023	ETS/DI-178	73.1	43.5	10.9	21.3	0.84
11	12.01.2023	ETS/DI-179	66.8	39.1	11.6	21.0	0.35
12	15.01.2023	ETS/DI-180	68.6	39.8	12.2	21.9	0.44
13	19.01.2023	ETS/DI-181	68.6	41.1	10.6	16.9	0.70
14	22.01.2023	ETS/DI-182	62.9	42.7	11.2	24.5	0.35
15	28.01.2023	ETS/DI-183	63.4	38.4	11.9	19.9	0.57
16	31.01.2023	ETS/DI-184	63.6	42.2	16.4	18.4	0.79
17	04.02.2023	ETS/DI-185	71.2	37.8	15.4	18.8	0.44
18	08.02.2023	ETS/DI-186	74.0	38.6	14.2	23.7	0.49
19	11.02.2023	ETS/DI-187	69.0	36.3	10.3	21.6	0.53
20	14.02.2023	ETS/DI-188	78.8	41.4	10.7	21.3	0.75
21	19.02.2023	ETS/DI-189	68.3	43.9	10.3	28.3	0.53
22	23.02.2023	ETS/DI-190	73.7	45.5	13.3	32.6	0.28
23	27.02.2023	ETS/DI-191	68.6	41.1	10.4	27.0	0.57
24	04.03.2023	ETS/DI-192	70.6	39.8	12.2	25.2	0.50
		Minimum	**62.9**	**36.3**	**10.3**	**16.9**	**0.28**
		Maximum	**81.0**	**45.5**	**18.9**	**32.6**	**0.84**
		Average	**71.6**	**40.6**	**12.4**	**23.1**	**0.52**
		98 PERCENTILE	**80.4**	**44.8**	**17.7**	**30.9**	**0.82**

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

ENVIRO-TECH SERVICES

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab-In-charge

Note:-

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

ENVIRO-TECH SERVICES
An Analytical Laboratory
(A GOVERNMENT APPROVED LAB)
ETS-LAB
Plot No. 1/32, S.S. of G.T. Road Industrial Area, Ghaziabad (U.P.) - 201001
email : etslab2012@gmail.com | Website : www.etslab.in | Ph.: 9911516076, 9811736063
ISO 45001

TEST REPORT

TEST REPORT NO : ETS/728-46/02/2023

DATE OF REPORT :10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT CLUSTER PROJECT

Date of Monitoring : 18.02.2023
Monitoring Start Date : 18.02.2023
Monitoring End Date : 19.02.2023
Monitoring Done By : ETS STAFF
Monitoring Duration : 24.0 HOURS
Place Of Monitoring : PROJECT SITE
Category Of Area : RESIDENTIAL AREA
Sampling Method : ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	50.3	55
2.	Noise Level Night Time	Leq :dB (A)	37.5	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/728-47/02/2023

DATE OF REPORT :10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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	:	AWADHI
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)	46.2	55
2.	Noise Level Night Time	Leq :dB (A)	36.1	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Pushkar Mittal
Lab In-charge
AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/728-48/02/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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	:	DW (500M) NEARBY DHARKANDHA
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	50.6	55
2.	Noise Level Night Time	Leq :dB (A)	42.1	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Rushkar Mittal

AUTHORIZED SIGNATORY

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-49/02/2023

DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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	:	SEMARI
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)	45.2	55
2.	Noise Level Night Time	Leq :dB (A)	35.1	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

AUTHORIZED SIGNATORY
Lab In-charge

Note:-

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

ETS-LAB

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-50/02/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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	:	DHARKANDHA
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)	51.7	55
2.	Noise Level Night Time	Leq :dB (A)	40.3	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services
Pankaj Mittal
Lab In Charge
AUTHORIZED SIGNATORY

Note:-

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

ETS-LAB

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/728-51/02/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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	:	MEDNIPUR
Category Of Area	:	RESIDENTIAL AREA
Sampling Method	:	ETS/LAB/NOISE-01

S. No.	Test Parameters	Unit	Result	Ambient Noise Standards/Specification (CPCB)
1.	Noise Level Day Time	Leq :dB (A)	47.8	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****

For Enviro-Tech Services

CHECKED BY
SHRADDHA GUPTA

Pushpa Mittal
In Charge
AUTHORIZED SIGNATORY

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

ETS-LAB

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/728-52/02/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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	:	AKORHA
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)	46.8	55
2.	Noise Level Night Time	Leq :dB (A)	36.2	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Bhaskar Mittal
Lab In-charge

AUTHORIZED SIGNATORY

Note:-

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

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/728-53/02/2023 DATE OF REPORT : 10.03.2023

NOISE MONITORING REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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	:	JAMSONA
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)	50.5	55
2.	Noise Level Night Time	Leq :dB (A)	38.8	45

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

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

CHECKED BY
SHRADDHA GUPTA

For Enviro-Tech Services

Rishikal Mittal
Lab In-charge
AUTHORIZED SIGNATORY

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

Note:-

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

ISO 45001

ETS-LAB

(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/728-54/02/2023 DATE OF REPORT :10-03-2023

SOILSAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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-728-54
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	AWADHI
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	%	60.7	IS:2720 (Pt-4)
3.	Silt	%	24.1	IS:2720 (Pt-4)
4.	Clay	%	15.2	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.44	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.35	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	323.0	IS:14767
8.	Water Holding Capacity(WHC)	%	42.0	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	133.5	APHA-3125B
10.	Calcium (Ca)	mg/kg	1203.8	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	540.1	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.31	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	165.8	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	43.2	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	259.2	APHA-3125B
16.	Organic Matter	%	1.11	IS : 2720 (P-22)
17.	Organic Carbon	%	1.37	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.10	IS:3025(P-24)
19.	Porosity	%	16.15	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.83	ASTM 9214

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

For Enviro-Tech Services

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.

CHECKED BY SHRADDHA GUPTA

AUTHORIZED SIGNATORY

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

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

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

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

ISO 45001

TEST REPORT

TEST REPORT NO : ETS/728-56/02/2023 DATE OF REPORT :10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT 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-728-56
Sampling Done By : ETS STAFF
Sampling& Testing Method : ETS/LAB/SOIL-01
Sampling Location : DHARKANDHA
Sampling Quantity : 2 kg.
Packing Condition : SEALED
Packed In : ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	58.1	IS:2720 (Pt-4)
3.	Silt	%	28.5	IS:2720 (Pt-4)
4.	Clay	%	13.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.79	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.82	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	345.1	IS:14767
8.	Water Holding Capacity(WHC)	%	36.6	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	145.7	APHA-3125B
10.	Calcium (Ca)	mg/kg	1072.8	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	529.7	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.54	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	177.6	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	60.1	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	351.1	APHA-3125B
16.	Organic Matter	%	1.20	IS : 2720 (P-22)
17.	Organic Carbon	%	1.45	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.40	IS:3025(P-24)
19.	Porosity	%	21.20	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	0.91	ASTM 9214

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

ENVIRO-TECH SERVICES

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.

For Enviro-Tech Services

Pushkar Mittal
Lab Incharge

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

ENVIRO-TECH SERVICES

An Analytical Laboratory

ETS-LAB

ISO 45001

(A GOVERNMENT APPROVED LAB)

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

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

TEST REPORT

TEST REPORT NO : ETS/728-57/02/2023

DATE OF REPORT :10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer	:	RIAN ENVIRO PRIVATE LIMITED ROHTAS THORA RIVER SAND GHAT 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-728-57
Sampling Done By	:	ETS STAFF
Sampling& Testing Method	:	ETS/LAB/SOIL-01
Sampling Location	:	JAMSONA
Sampling Quantity	:	2.0 kg.
Packing Condition	:	SEALED
Packed In	:	ZIP POLLY BAG

S. No.	Test Parameters	Unit	Result	Test Method
1.	Texture	...	Sandy Clay Loam	IS:2720 (Pt-4)
2.	Sand	%	58.3	IS:2720 (Pt-4)
3.	Silt	%	29.6	IS:2720 (Pt-4)
4.	Clay	%	12.1	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.77	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.44	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	336.1	IS:14767
8.	Water Holding Capacity(WHC)	%	33.2	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	153.2	APHA-3125B
10.	Calcium (Ca)	mg/kg	1073.8	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	540.3	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.46	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	177.6	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	43.2	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	251.3	APHA-3125B
16.	Organic Matter	%	1.18	IS : 2720 (P-22)
17.	Organic Carbon	%	1.80	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	1.11	IS:3025(P-24)
19.	Porosity	%	27.01	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.04	ASTM 9214

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

For Enviro-Tech Services

Pushpar 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.

CHECKED BY
SHRADDHA GUPTA

AUTHORIZED SIGNATORY

ENVIRO-TECH SERVICES

An Analytical Laboratory

(A GOVERNMENT APPROVED LAB)

ETS-LAB

ISO 45001

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

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

TEST REPORT

TEST REPORT NO : ETS/728-58/02/2023

DATE OF REPORT : 10-03-2023

SOIL SAMPLE ANALYSIS REPORT

Name And Address of Customer : RIAN ENVIRO PRIVATE LIMITED
ROHTAS THORA RIVER SAND GHAT 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-728-58
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	%	70.0	IS:2720 (Pt-4)
3.	Silt	%	19.6	IS:2720 (Pt-4)
4.	Clay	%	10.4	IS:2720 (Pt-4)
5.	pH (1:2 Suspension)	..	7.55	IS:2720 (Pt-26)
6.	Sodium Absorption Ratio (SAR)*	%	1.30	ETS/STP/SOIL-16
7.	Electrical Conductivity (1:2)	µmho/cm	340.2	IS:14767
8.	Water Holding Capacity(WHC)	%	36.3	IS 2720 (Part-2)
9.	Sodium (Na)	mg/kg	120.8	APHA-3125B
10.	Calcium (Ca)	mg/kg	1012.1	IS 2720 (Part-23)
11.	Magnesium (Mg)	mg/kg	410.5	ETS/STP/SOIL-08
12.	Bulk Density	g/cm^3	1.90	IS 2386 (Part-4)
13.	Total Nitrogen (N)	mg/kg	238.1	APHA,Pt 4500:(N)
14.	Phosphorus (PO4)	mg/kg	56.4	ETS/STP/SOIL-19
15.	Potassium (K)	mg/kg	291.2	APHA-3125B
16.	Organic Matter	%	1.23	IS : 2720 (P-22)
17.	Organic Carbon	%	1.87	BS 1377 -3)
18.	Sulphate as (SO_4)	mg/kg	2.10	IS:3025(P-24)
19.	Porosity	%	25.27	IS 13030
20.	Arsenic	mg/kg	<0.01	ETS/STP/SOIL-18
21.	Fluoride	mg/kg	1.22	ASTM 9214

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

For Enviro-Tech Services

Pushpal Mittal
Lab In-charge

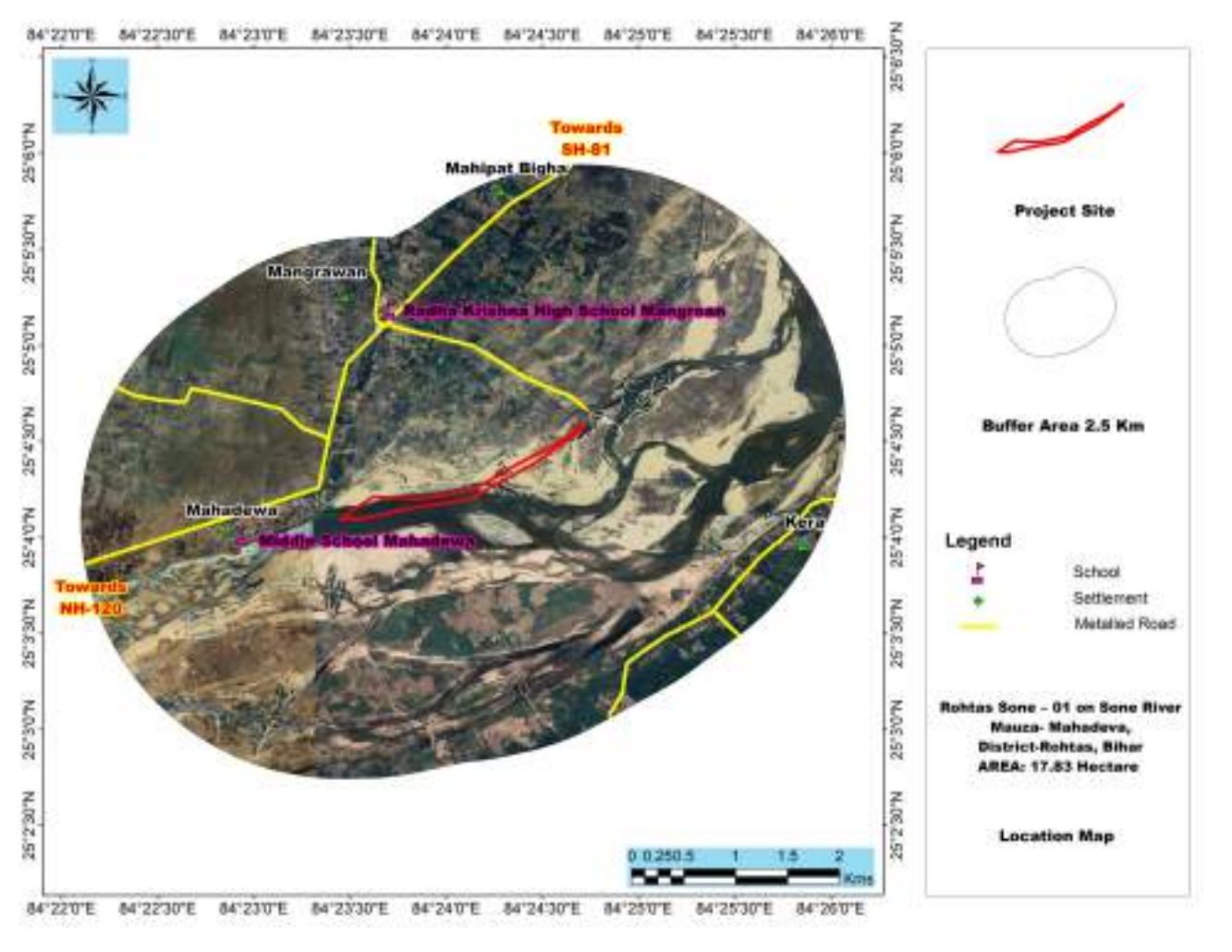
CHECKED BY
SHRADDHA GUPTA

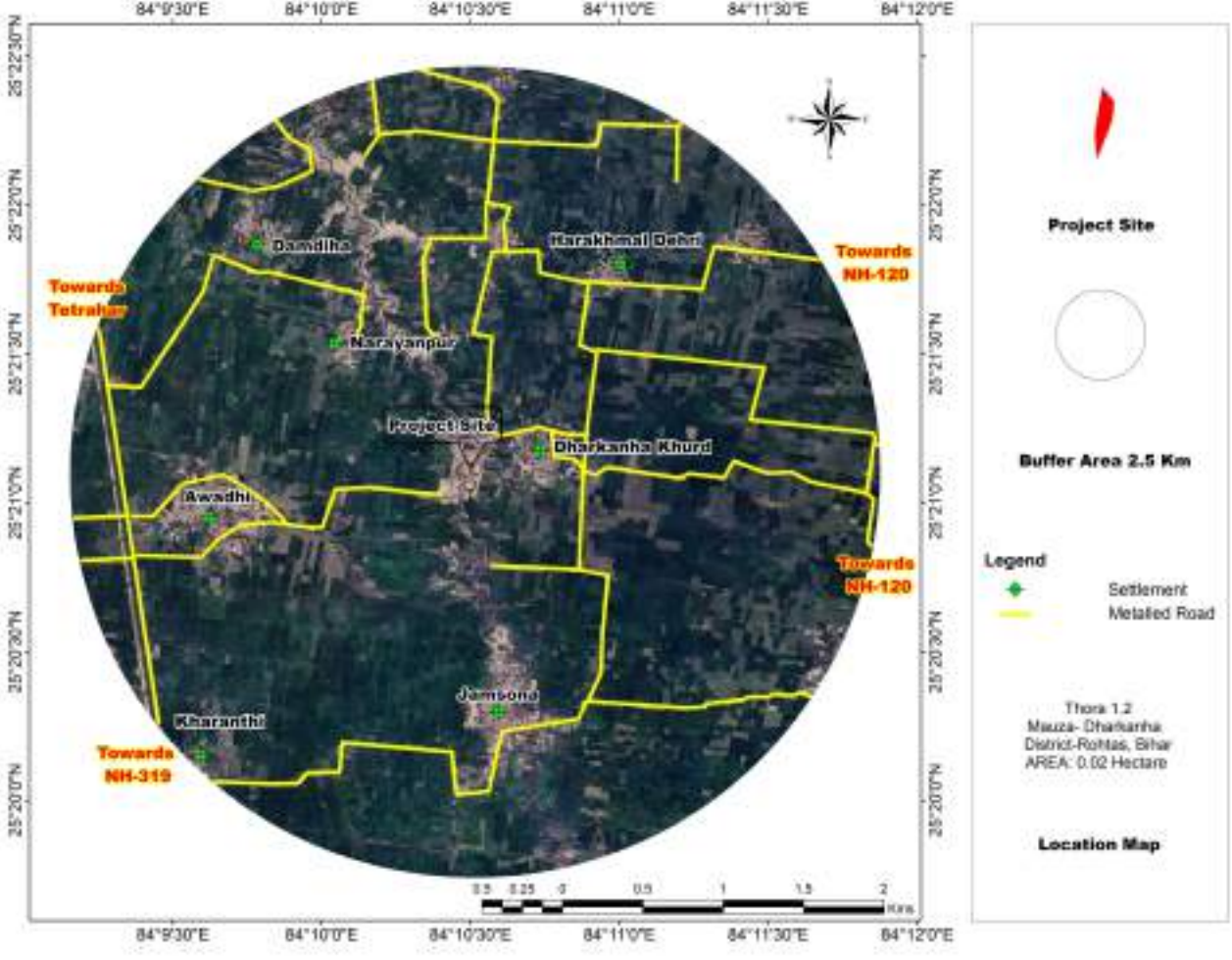
AUTHORIZED SIGNATORY

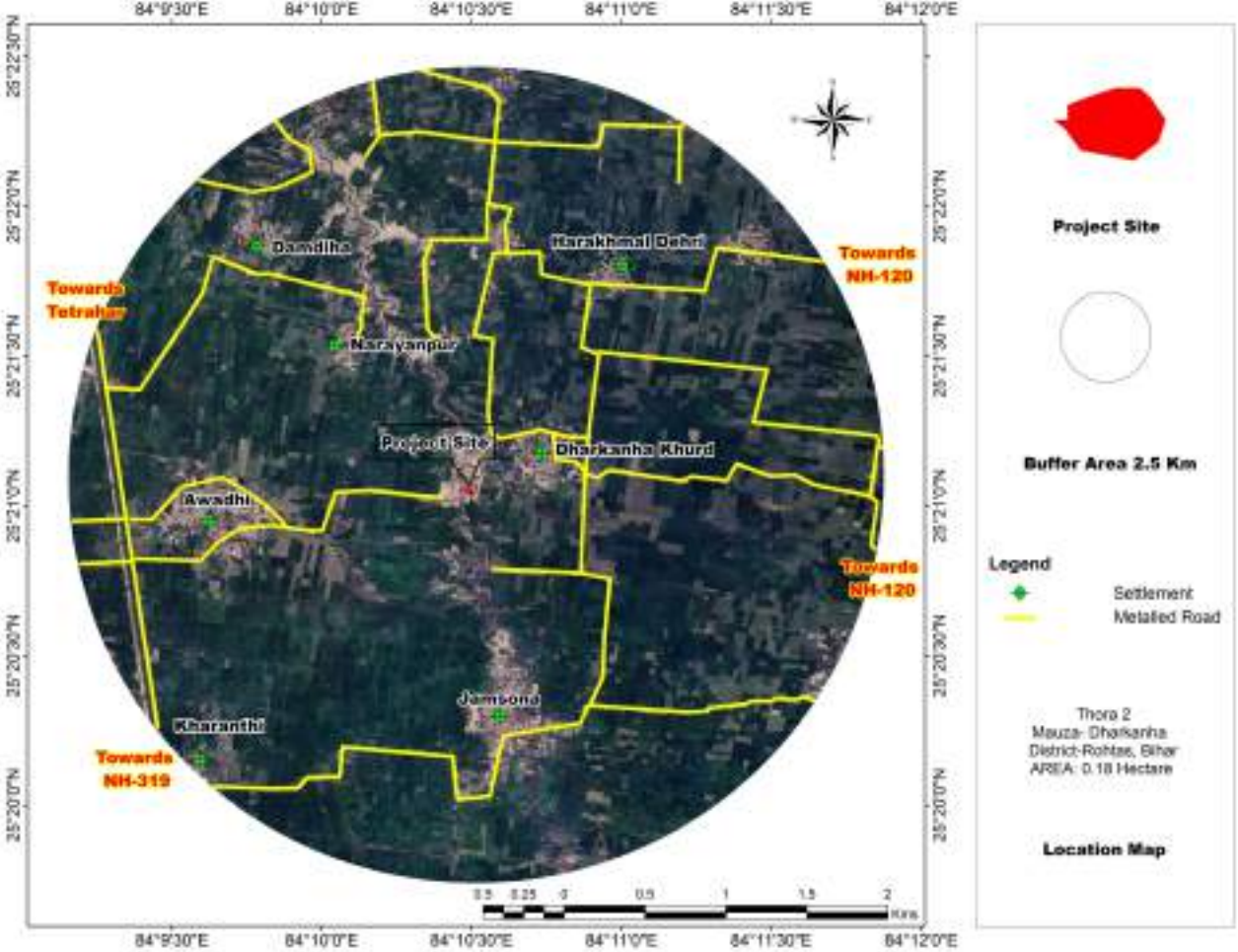
Note:*
1. Test reports without ETS LAB HOLOGRAM are not issued by our laboratory.
2. The results indicated only refer to the tested samples and listed applicable parameters.
3. No complaint will be entertained if received after 7 days of issue of test report.
4. Our liability is limited to invoice value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

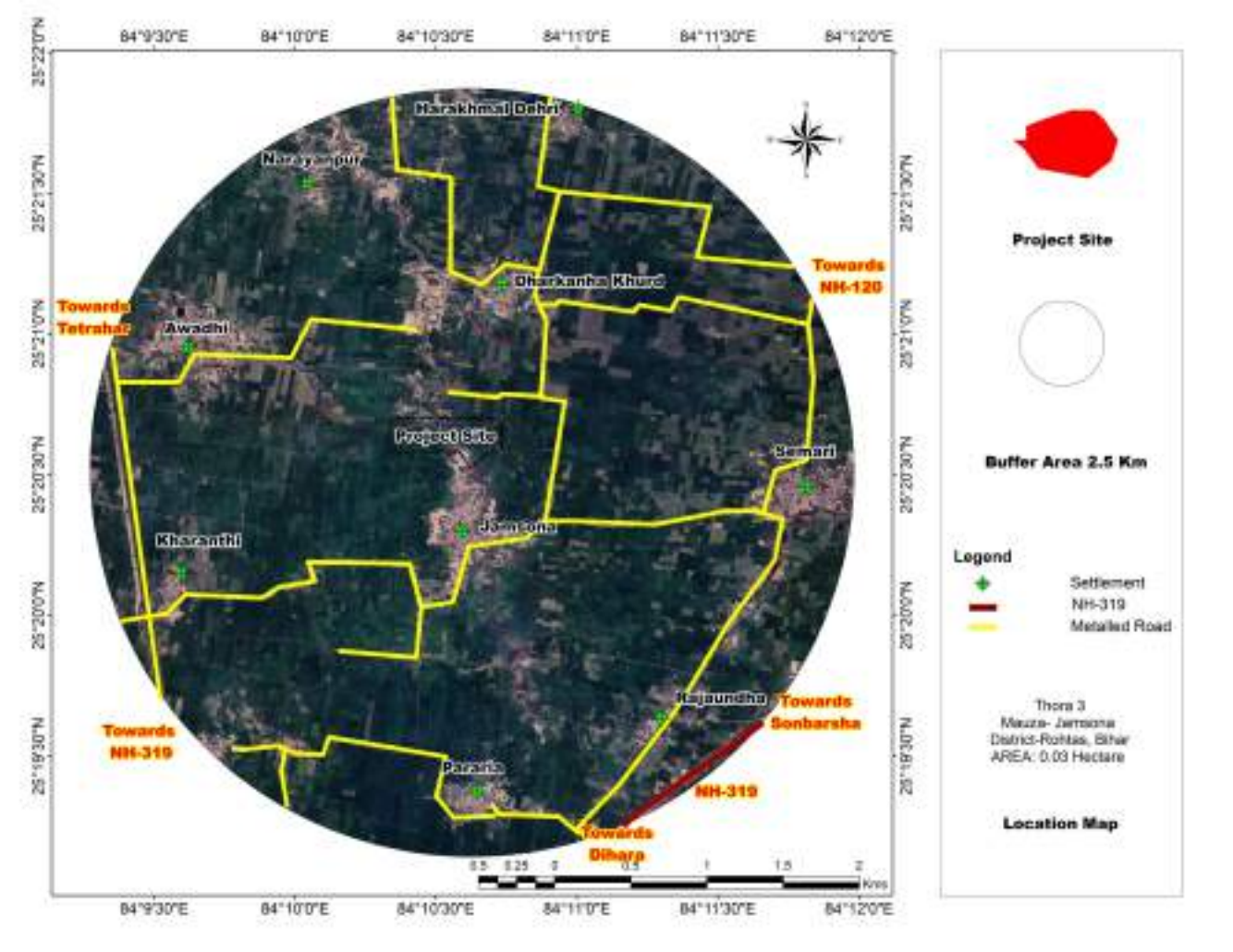
Annexure –VIII

(2.5 Km Map showing Public Utility)


84°22'0"E
84°22'30"E
84°23'0"E
84°23'30"E
84°24'0"E
84°24'30"E
84°25'0"E
84°25'30"E
84°26'0"E
25°6'30"N
25°6'0"N
25°5'30"N
25°5'0"N
25°4'30"N
25°4'0"N
25°3'30"N
25°3'0"N
25°2'30"N
Towards
SH-81
Mahipat Bigha
Mangrawan
Radha Krishna High School Mangrawan
Mahadewa
Middle School Mahadewa
Kera
Towards
NH-120
0 0.25 0.5 1 1.5 2
Kms
Project Site
Buffer Area 2.5 Km
Legend
School
Settlement
Metalled Road
Rohtas Sone – 01 on Sone River
Mauza- Mahadeva,
District-Rohtas, Bihar
AREA: 17.83 Hectare
Location Map


84°9'30"E
84°10'0"E
84°10'30"E
84°11'0"E
84°11'30"E
84°12'0"E
25°22'30"N
25°22'0"N
25°21'30"N
25°21'0"N
25°20'30"N
25°20'0"N
Damdiha
Harakhmal Dehri
Towards NH-120
Towards Tetrahar
Narayanpur
Project Site
Dharkanha Khurd
Awadhi
Towards NH-120
Jamsona
Kharanthi
Towards NH-319
0.5 0.25 0 0.5 1 1.5 2
Kms
Project Site
Buffer Area 2.5 Km
Legend
Settlement
Metalled Road
Thora 1.2
Mauza- Dharkanha
District-Rohtas, Bihar
AREA: 0.02 Hectare
Location Map


84°9'30"E
84°10'0"E
84°10'30"E
84°11'0"E
84°11'30"E
84°12'0"E
25°22'30"N
25°22'0"N
25°21'30"N
25°21'0"N
25°20'30"N
25°20'0"N
Damdiha
Harakhmal Dehri
Towards NH-120
Towards Tetrahar
Narayanpur
Project Site
Dharkanha Khurd
Awadhi
Towards NH-120
Jamsona
Kharanthi
Towards NH-319
0.5 0.25 0 0.5 1 1.5 2
Kms
Project Site
Buffer Area 2.5 Km
Legend
Settlement
Metalled Road
Thora 2
Mauza- Dharkanha
District-Rohtas, Bihar
AREA: 0.18 Hectare
Location Map



Project Site

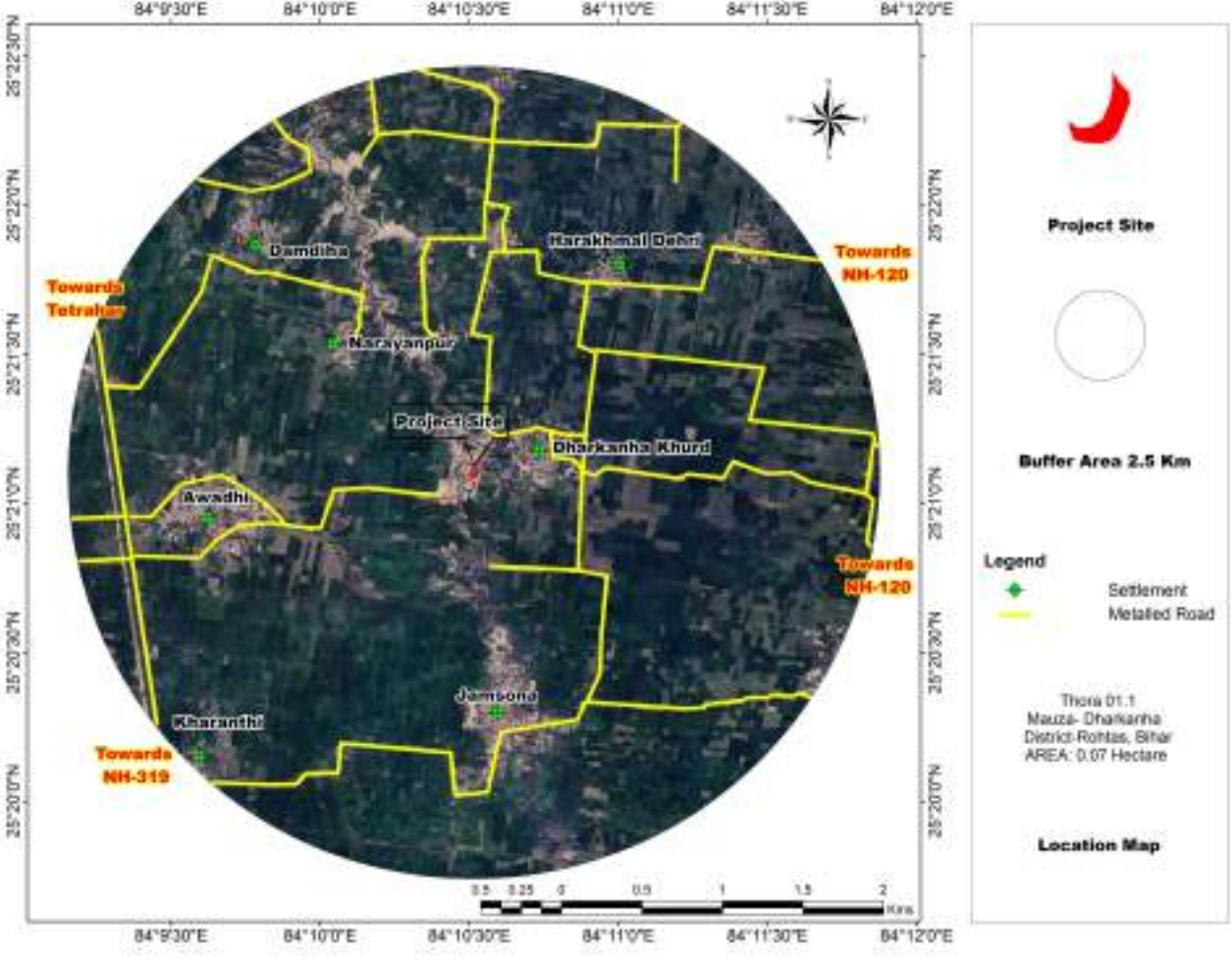
Buffer Area 2.5 Km

Legend

- Settlement
- NH-319
- Metalled Road

Thora 3
Mauza- Jamsona
District-Rohtas, Bihar
AREA: 0.03 Hectare

Location Map


84°9'30"E
84°10'0"E
84°10'30"E
84°11'0"E
84°11'30"E
84°12'0"E
25°22'30"N
25°22'0"N
25°21'30"N
25°21'0"N
25°20'30"N
25°20'0"N
Damdiha
Harakhmal Dehri
Towards NH-120
Towards Tetrahar
Narayanpur
Project Site
Dharkanha Khurd
Awadhi
Towards NH-120
Jamsona
Kharanthi
Towards NH-319
0.5 0.25 0 0.5 1 1.5 2
Kms
Project Site
Buffer Area 2.5 Km
Legend
Settlement
Metalled Road
Thora 01.1
Mauza- Dharkanha
District-Rohtas, Bihar
AREA: 0.07 Hectare
Location Map

Annexure –IX

(Questionnaire)

PROFORMA FOR ENVIRONMENTAL APPRAISAL OF MINING PROJECTS

(MINING SECTOR PROJECTS)

Note 1: All information to be given in the form of Annex/s should be properly numbered and form part of reply to this Performa.

Note 2: Please enter √ in appropriate box where answer is Yes / No

Note 3: No abbreviation to be used - **Not available** or **Not applicable** should be clearly mentioned.

Note 4: **Core zone** is the mining lease area.

Buffer zone in case of ML area up to 25 ha is to be considered as **5 km** all around the periphery of the core zone and for ML area above 25 ha an area **10 km** all around the periphery of the core zone.

Note 5: Adopt **Scoping process** in carrying out EIA study.

a	Name of the project	Proposed Sand Mining Project **Rohtas Sone, Kow, Thora Sand Ghat (Block-1)**
I	Name of the proponent	Lalti Devi
ii	Mailing Address	M/s Banshidhar Construction Pvt. Ltd Dir. – Lalti Devi D/o- Medni Rai Address: 2nd Floor, Plot No.- 388/389, Biscuit Factory More, Nasriganj, PO- Danapur, P.S-Danapur, Patna
	E-mail	-
	Telephone	-
	Fax No.	-
b	Objective of the project	Sand Mining
c	**Location of mine**	
	Village	Mauza- Mahadeva, Itawa, Bagha Khoh, Chit Bisawan, Saura, Kusadhar, Dharupur, Dhangain, Parariya, Dharkanha, Jamsona ,
	Tehsil	Nasriganj, Nokha, Dawath, Sunyapura, Bikramganj, Rajpur, Akodhigol
	District	Rohtas
	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	Attached	
	Longitude	Attached	
	Survey of India Topo sheet number	G45M8, G45M4, G45M7, G45M3	
	Elevation above Mean Sea Level	Rohtas Sone 01: 88.4m to 88.3m Kow 1: 98.2 m to 98.3m Kow 2: 95.36 m to 95.15 m Kow 3: 95.3m to 95.2 m Kow 4.1: 95.32 m to 95.15 m Kow 4.2: 94.32 to 94.15 m Kow 4.3: 95.3 m to 95.15 m Kow 4.4: 95.4 m to 95.1 m Kow 5: 95.28 m to 95.1 m Kow 6: 82.28 m to 82.12 m Kow 7: 78.4 m to 78.2 m Thora 1.1: 70.4 m to 70.15 m Thora 1.2: 71.35 m to 71.15 m Thora 2: 72.35 m to 72.12 m Thora 3: 73.38 m to 73.15 m	
	Total mining lease area (in ha.)	18.88 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	18.88 Ha.	
f	Others (Private Land)	--	
g	Others (Own Land)	--	
	Total	18.88 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.	Others		Forest	Others	Agri	Others	Forest	Other	Agri.	Others
1. Area to be excavated		-	18.88 Ha.	-	--	18.88 Ha.	-	18.88 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		-	**18.88 Ha.**	-	-	**18.88 Ha.**	--	**18.88 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, Kow & Thora River		-	
Ancillary facilities		-		-	
[* From highest flood line / high tide line]					
7	For projects falling within the Coastal Regulation Zone (CRZ)				
	Whether the mineral to be mined is of rare nature and not available outside CRZ?	**Yes**	-	**No**	√

if yes, annex a scaled location map showing low tide line (LTL), high tide line (HTL) duly demarcated by one of the authorized agencies* [*Director, Space Application Centre, Ahmedabad: Centre for Earth Sciences Studies, Thiruvananthapuram: Institute of Remote Sensing, Anna University, Chennai: Institute of Wetland Management & Ecological Designs, Kolkata: Naval Hydrographers' Office, Dehradun: National Institute of Oceanography, Panjim, Goa: and National Institute of Ocean Technology, Chennai], boundary of mining lease area, distance of ML area from LTL and HTL CRZ boundary and CRZ classification of the project area as per the approved Coastal Zone Management Plan, and settlements, sand dunes, mangroves, forest land/patches, turtles breeding and nesting sites etc., if any, in the project area.

8	**Indicate aerial distance from the periphery of core zone / area from the periphery of the buffer zone to the boundary of following (up to 10 km):**			
S. No.	Area	Name	Aerial distance from (In km.)	
			Core Zone	Buffer Zone
1.	National Park / Sanctuary	Nil	-	-
2.	Biosphere Reserve / Tiger Reserve / Elephant Reserve / any other Reserve	Nil	-	-
3.	Forest (RF / PF / unclassified)	Nil	-	-
4.	Habitat for	Nil	-	-

	migratory birds			
5.	Corridor for animals of schedule I & II of the Wildlife (Protection) Act, 1972	Nil	-	-
6.	Archaeological sites * Notified * Others	Nil	-	-
7.	Defense Installation	Nil	-	-
8.	Industries / Thermal Power Plants	Nil	-	-
9.	Other Mines	No	-	-
10.	Airport	Nil	-	-
11.	Railway Lines	Chanka Halt Railway Station,	-	Approx.7.86 Km towards ESE
12.	National / State Highways	NH-139 NH-319 SH-15	-	Approx. 2.81 Km towards ESE Approx. 3.27 Km towards NW Approx. 8.32 Km towards SE
[* 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	600404.4 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)	600404.4 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- 4525/ Khanan, dated 30-11-2022 for the period of Five Years	
d	Date of expiry of lease (D /M /Y)	Five years from date of execution of mine lease	
e	Indicate in case of existing mines	-	
i	Date of opening of mine	-	
ii	Production in the last 5 Years	-	
iii	Projected production for the next 6^{th} to 10^{th} year .	-	
iv	Whether mining was suspended after opening of the mine?	-	
v	If yes, details there of including last production figure and reason for the same.	--	
f	Whether plans & sections provided?	**Yes**	
13	**Type and method of mining operations**		

TYPE		**METHOD**	
Opencast	√	Manual	-
Underground	-	Mechanized	**-**
Both	-	Semi-mechanized	√

14	**Details of ancillary operations for mineral processing**	
a	Existing	-
b	Additional	-
15	**Mine details**	
a	**Opencast mine**	
i	Stripping ratio (mineral in tonnes to over burden in m^3)	-
ii	Ultimate working depth (in m bgl)	3 m
iii	Indicate present working depth in case of existing mine (in m bgl)	--
iv	Thickness of top soil (in m.)	--
a	Minimum	0.0

b	Maximum	0
c	Average	0
v	Thickness of overburden (in m.)	
a	Minimum	0.0
b	Maximum	0
c	Average	--
vi	Mining Plan	
a	Height and width of the bench in overburden / waste.	0
b	Height & width of the bench in ore body / coal seam.	Height: 1 m Width : 1.5 m
c	Proposed inclination / slope of the sides of the opencast mine (separately for overburden, coal / ore and overall slope of the pit sides) both while operating the mine as well as at the time of closure of the mine.	45º
d	Whether transverse sections across the opencast mine at the end of fifth year and at the end of the life of the mine have been submitted?	--
vii	Type of blasting, if any, to be adopted	--
b	Underground mine-	**Not Applicable**
i	Seam / Ore body	
	Min.Depth (m)	-
	Max. Depth (m)	-
	Avg. thickness (m)	-
	Rate of dip	-
	Direction of dip in degree	-
ii	Mode of entry into the mine	
	Shaft	-
	Adit	-
	Incline	-
iii	Details of machinery	
	On surface	-
	At Face	-
	For transportation	-
	Others	-
iv	Method of stopping	
	Open	-
	Filled	-
	Shrinkage	-
	Caving	-
	Combination of above	-
	Others (Specify)	-
v	Extraction method	
	Caving	-
	Stowing	-

	Partial extraction		-	
vi	Subsidence			
	Predicted max. subsidence (in m)		-	
	Max. value of tensile strain (in mm/m)		-	
	Max. slope change (in mm/m)		-	
	Whether identified possible subsidence area(s) superimposed on Surface Plan has been submitted?		-	
	Major impacts on surface features like natural drainage pattern, houses, buildings, water bodies, roads, forest, etc.		-	
	Salient features of subsidence management (monitoring and control).		-	
16	**Surface drainage pattern at mine site**		**Yes**	**No**
a	Whether the pre-mining surface drainage plan submitted?			√
b	Do you propose any modification / diversion in the existing natural drainage pattern at any stage? If yes, when. Provide location map indicating contours, dimensions of water body to be diverted, direction of flow of water and proposed route / changes, if any i.e. realignment of river / nallah / any other water body falling within core zone and its impact		-	√
17	**Embankment and / or weir construction**			
a	Do you propose, at any stage, construction of			
i	Embankment for protection against flood?		No	
ii	Weir for water storage for the mine?		No	
b	If so, provide details thereof.		-	
c	Impact of embankment on HFL and settlement around.		-	
d	**Impact of weir on downstream users of water**		-	
18	Vehicular traffic density (**outside the ML area**)			
		Type of vehicles	No. of vehicles per day (in PCU)	
a	Existing	tractor/trolley	6732	
b	After the proposed activity		7356	
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	600404.4 TPA	100	2.8
b	Rail	-	-	-
c	Conveyors	-	-	-
d	Rope way	-	-	-
e	Water ways	-	-	-
f	Pipeline	-	-	-
g	Others (Specify)	-	-	-
Total		**600404.4** TPA	**100**	**2.8**

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)

(7th December 2022 to 5th March 2023)

Particulars	Unit	Min	Max	Avrg
Temp	C	7.2	34.5	24.5
RH	%	29	64	40.5
Wind Speed	m/s	0.52	8.8	2.73
Solar Radiation	W/m2	5100	5500	5350
Wind Direction	North West			
Rainfall	25 mm			
No of Rainy Days	07			
Avrg Annual Rainfall	1055.4 mm			

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

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

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

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

(b) Ambient air quality data* (RPM, SPM, SO_2, and NOx)

[*Monitoring should be carried out covering one full season except monsoon – same season as in 21 (a) (i)]

[*Frequency of sampling: Sampling to be done twice a week for the entire season 24 hourly for SPM & RPM. For gaseous pollutants 24-hourly data be given irrespective of the sampling period.]

(i) Season and period for which monitoring has been carried out in winter **Season (7th December, 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/m3 from 0.000 mg to 0.100 mg/ m^3	< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3	< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3	< 0.5 µg/m3 from 0.000 mg to 0.100 mg/ m^3	-
Permissible AAQ standard (CPCB) R,I,S	60 µg/m^3	100 µg/m^3	80 µg/m^3	80 µg/m^3	-
	60 µg/m^3	100 µg/m^3	80 µg/m^3	80 µg/m^3	-
	60 µg/m^3	100 µg/m^3	80 µg/m^3	80 µg/m^3	-

Parameter		**AAQ1** Project Site	**AAQ2** Middle School Mahadeva	**AAQ3** Kanya Prathmik Vidyalaya Pokharaha	**AAQ4** Mangrawan	**AAQ5** Anchha	**AAQ6** Daudanagar	**AAQ7** Makhmulpur	**AAQ8** Mahammadpur
PM_{10} (µg/m^3)	**Min.**	59.7	62.2	63.0	61.7	65.1	66.2	63.0	66.2
	Max.	76.3	79.5	82.0	82.4	76.9	78.4	81.2	85.3
	Mean	66.8	69.6	70.3	70.4	71.5	71.8	71.8	75.3
	98 %*	75.8	78.9	79.6	81.1	76.7	77.8	80.6	84.6
$PM_{2.5}$ (µg/m^3)	**Min.**	30.3	31.6	30.5	29.7	36.8	37.7	36.9	38.2
	Max.	40.2	41.9	46.2	43.7	43.8	46.4	74.6	47.9

	Mean	34.2	35.6	36.9	36.1	40.5	43.1	42.3	42.7
	98 %*	39.6	41.2	44.7	41.6	43.6	46.1	61.3	47.1
SO_2 ($\mu g/m^3$)	**Min.**	12.0	10.0	9.9	10.1	9.5	7.7	10.3	10.8
	Max.	19.3	16.1	16.4	16.3	17.9	15.2	18.9	19.8
	Mean	16.3	13.6	12.4	12.4	14.2	12.7	12.5	13.1
	98 %*	19.1	16.0	16.1	15.8	17.9	15.2	17.8	18.6
NO_X ($\mu g/m^3$)	**Min.**	18.5	15.4	14.4	18.0	15.5	20.3	16.9	17.7
	Max.	30.0	25.0	25.8	27.5	27.0	31.8	32.7	34.3
	Mean	23.6	19.6	19.6	22.6	19.9	24.9	23.1	24.3
	98 %*	29.0	24.2	25.7	27.1	25.5	30.6	31.0	32.5
(CO) (mg/m^3)	**Min.**	0.58	0.64	0.69	0.55	0.47	0.54	0.70	0.66
	Max.	1.93	2.14	1.97	2.04	1.94	1.77	1.85	1.99
	Mean	1.38	1.53	1.40	1.38	1.30	0.90	1.25	1.25
	98 %*	1.92	2.13	1.97	2.04	1.91	1.74	1.82	1.95
Parameter		**AAQ1** Project Site	**AAQ2** Kushdhar Tola	**AAQ3** Rajpur	**AAQ4** Baghaila	**AAQ5** Itwan	**AAQ6** Chaanp	**AAQ7** Bagah Koh	**AAQ8** Semradih
PM_{10} ($\mu g/m^3$)	**Min.**	53.7	60.5	56.7	59.9	63.8	67.5	54.8	64.8
	Max.	68.7	78.0	73.8	79.9	75.4	80.0	73.4	83.6
	Mean	60.1	68.9	63.2	68.3	70.1	73.3	65.1	73.8
	98 %*	68.2	77.3	71.7	78.7	75.2	79.4	73.2	82.9
$PM_{2.5}$ ($\mu g/m^3$)	**Min.**	27.5	35.4	27.4	28.8	36.0	38.5	29.2	37.4
	Max.	35.0	71.6	41.6	42.4	42.9	47.3	40.0	46.9
	Mean	32.5	40.6	33.2	35.0	39.7	43.9	34.2	41.9
	98 %*	34.7	58.8	40.3	40.4	42.8	47.0	39.6	46.2
SO_2 ($\mu g/m^3$)	**Min.**	10.8	9.9	8.9	9.8	9.3	7.8	8.7	10.6
	Max.	17.4	18.1	14.8	15.8	17.6	15.5	19.1	19.4
	Mean	14.7	12.0	11.2	12.0	14.0	12.9	13.8	12.8
	98 %*	17.2	17.0	14.5	15.3	17.6	15.5	18.9	18.3

NO_X ($\mu g/m^3$)	**Min.**	16.6	16.2	14.3	21.7	18.6	20.7	20.0	17.4
	Max.	27.0	31.4	25.6	32.9	32.3	32.4	30.9	33.6
	Mean	21.2	22.2	19.9	27.2	23.9	25.4	24.7	23.8
	98 %*	26.1	29.7	25.5	32.5	30.6	31.2	30.6	31.8
(CO) (mg/m^3)	**Min.**	0.31	0.19	0.28	0.26	0.23	0.28	0.22	0.21
	Max.	0.78	0.85	0.74	0.80	0.77	0.90	0.81	0.71
	Mean	0.49	0.53	0.50	0.50	0.55	0.58	0.55	0.36
	98 %*	0.74	0.82	0.73	0.78	0.77	0.85	0.81	0.70
Parameter		**AAQ1** Project Site	**AAQ2** DW (500m) nearby Dharkandha	**AAQ3** Awadhi	**AAQ4** Semari	**AAQ5** Dharkandha	**AAQ6** Mednipur	**AAQ7** Akorha	**AAQ8** Jamsona
PM_{10} ($\mu g/m^3$)	**Min.**	54.8	58.7	57.8	57.4	64.1	49.3	57.5	62.9
	Max.	70.1	78.3	75.3	67.9	76.0	66.0	74.1	81.0
	Mean	61.3	66.9	64.5	63.1	69.6	58.6	65.4	71.6
	98 %*	69.6	77.1	73.1	67.7	75.4	65.8	73.5	80.4
$PM_{2.5}$ ($\mu g/m^3$)	**Min.**	28.0	28.2	28.0	32.4	36.5	26.3	33.7	36.3
	Max.	35.7	41.5	42.4	38.6	44.9	36.0	68.0	45.5
	Mean	33.1	34.3	33.9	35.7	41.7	30.8	38.6	40.6
	98 %*	35.4	39.5	41.1	38.5	44.7	35.6	55.9	44.8
SO_2 ($\mu g/m^3$)	**Min.**	11.0	9.6	9.1	9.7	7.4	8.2	9.4	10.3
	Max.	17.7	15.5	15.1	18.3	14.7	18.1	17.2	18.9
	Mean	15.0	11.8	11.4	14.5	12.3	13.1	11.4	12.4
	98 %*	17.5	15.0	14.8	18.3	14.7	18.0	16.2	17.7
NO_X ($\mu g/m^3$)	**Min.**	17.0	21.2	14.6	19.3	19.7	19.0	15.4	16.9
	Max.	27.5	32.3	26.1	33.6	30.8	29.3	29.8	32.6
	Mean	21.6	26.7	20.3	24.8	24.2	23.4	21.1	23.1
	98 %*	26.6	31.9	26.0	31.8	29.6	29.1	28.2	30.9

(CO) (mg/m^3)	**Min.**	0.24	0.23	0.29	0.20	0.23	0.32	0.29	0.28
	Max.	0.80	0.85	0.94	0.88	0.74	0.82	0.78	0.84
	Mean	0.57	0.57	0.60	0.55	0.38	0.51	0.52	0.52
	98 %*	0.80	0.85	0.88	0.85	0.73	0.78	0.76	0.82

*R = Residential; I = Industrial; S = Sensitive
**Pb for mineral specific sites only.
Annex a location map indicating location of AAQ stations, their direction and distance with respect to project site.

22. Stack and emission details, if any* Not Applicable

S. No.	Process / unit of operation (e.g. DG Set, Boiler)	Height of stack (m)	Internal top dia. (m)	Flue gas exit velocity (m/sec)	Emission rate (kg/hr)				Heat emission rate from top of stack (K.cal/hr)	Exhaust / Flue gas			
					SPM	SO_2	NO_x	CO		Temp ^OC	Density	Specific Heat	Volumetric flow rate (m^3/hr.)
	-	-	-	-	-				-	-	-	-	-

23. Details of fugitive emissions during mining operations*
Given in Chapter 4

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

(a) Details of model(s) used for AQIP including grid size, terrain features, and input meteorological data

(b) Maximum incremental GLC values of pollutants based on prediction exercise (in $\mu g/m^3$)

S. No.	Pollutants	Incremental Value	Ambient Air Quality	Resultant Air Quality
1.	SPM	2.32	76.3	78.62
2.	SPM	2.32	68.7	71.02
3.	SPM	2.32	70.1	72.42
2**.	SO_2	-	-	-
3**.	NO_X	-	-	-

[* Question Number 22, 23 & 24 need not be filled-in for mines having ML area of **25 ha. or less.**]

[**Information on item no. 2 & 3 to be provided in cases with captive power generation of 500 KVA and above]

25. Water requirement (m^3/day)

Purpose	Avg. Demand	Peak Demand
A. Mine site		
1. Mine operation	-	-
2. Land reclamation	-	-
3. Dust suppression	5.0	5.0
4. Drinking & domestic	0.22	0.22
5. Green Belt & Dust Suppression	0.57	0.57
6. Beneficiation	-	-
7. Washeries	-	-
8. Fire Service	-	-
9. Others (Mining and Allied Activities))	-	-
B. Township		
1. Green Belt	-	-
2. Domestic	-	-
C. Other (specify)	-	-
Total	**5.79**	**5.79**

26. Source of water supply*

S. No.	**Source**	m^3/day
1	River (name)	-
2	Ground water	0.22
3	Mine water (sump / pit)	--
4	Other surface water bodies (water will be tapped from plant supply)	5.57 by private Water Tanker 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	-	-	-	0.22		0.22
2	Irrigation	-	-		-		-
3	Industry	-	-		-		-
4	Mining	-	-	-	-		-
5	Others (Dust suppression+ Green belt)	-	-	5.57		5.57	
Total		**--**	**--**	**5.57**	0.22	5.57	0.22

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 analyzed. For discharging mines six samples are to be analyzed]

**All parameters as per BIS 10500. Indicate name of Methodology, Equipment used for analysis, and Detection Level (DL) for each parameter.
*** Wherever any analytical parameter is below detection level, "BDL" (Below Detection Level) should be written instead of 'NIL'.

30.	**Impact on ground water regime / stream / lake / springs due to mine dewatering ***	Not required
a	Radius of influence (in m) [To be estimated based on analysis of pumping test data and application of empirical formula]	-
b	Whether saline water ingress will take place?(applicable to coastal areas)	-
c	Impact on stream / lake / springs	-

[* Provide a comprehensive hydro-geological assessment report if the average mine dewatering is more than 100 m^3/day and or going below water table in non-monsoon period. The report should be based on preferably latest one-year pre-monsoon and post-monsoon baseline data covering information on ground water situation, aquifer characteristics, water level conditions (April – May and November), estimate of ground water resources, predicted impact of the project on ground water regime and detailed remedial / conservation measures such as artificial recharge of ground water etc. The report should be based on actual field inventory out of existing wells, at least 30 observation wells in the buffer zone with supplementary information from secondary sources (mention name). For estimation** of ground water resource (refer question no. 28 above) be designated study area of the buffer zone may be sub-divided into command and non-command areas, watershed-wise (in case of hard rock / consolidated formations) / block-wise / Mandal-wise in case of alluvial / unconsolidated formations)**]**

**For estimating ground water resources in the area follow the Ground Water Estimation Committee recommendations of 1997]

31.	**Waste Water Management**	Not Applicable
a	Daily average discharge (m^3/day) from different sources	-
i	Mine water discharge during	-
	Lean period	-
	Monsoon period	-
ii	Workshop	-
iii	Domestic (mine site)	-
iv	Beneficiation / Washeries	-
v	Coal Handling Plant	-

vi	Tailings pond	-	
vii	Others (Specify)	-	
	Total	-	
b	Waste water treatment plant; flow sheet for treatment process attached.	-	
C	Quantity of water recycled / reused / to be recycled in	-	
i	Percentage	-	
ii	m3 /day	-	
d	Point of final discharge	-	
	Final Point	-	
1	Surface	-	
i	Agricultural land	-	
ii	Waste land	-	
iii	Forest land	-	
iv	Green belt	-	
2	River / nallah	-	
3	Lake	-	
4	Sea	-	
5	Others (specify)	-	
	Total	-	
e	Users of discharge water	**Yes**	**No**
i	Human		
ii	Livestock		
iii	Irrigation		
iv	Industry		
v	Others (specify)		
F	Details of the river / nalla, if final effluent is / will be discharged (cumecs)		
i	Average flow rate		
ii	Lean season flow rate		
iii	Aquatic life		
iv	Analysis of river water 100 meters upstream and 100 meters downstream of discharge point submitted.		
G	Township		
a	Waste water generation from township (m3/day)		
b	Are you planning to provide sewage treatment plant?		
C	Usage of treated water		
32.	**Attach water balance statement in the form of a flow diagram indicating source (s), consumption (Section-wise) and output.** **Given in chapter 2 of EIA report**		
33	**Ambient noise level leq dB(A)**	Details given in Chapter III	
34	**Solid Waste-**	3.3 Kg/day	

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

	500KVA and above]				
a	Total power requirement			(in MW)	
S. No.		Mine Site	Township	Others (specify)	Total
1	Present				
2	Proposed / additional				
Total					

b	Source of power		(in MW)	
S. No.		SEB/Grid*	Captive power plant	DG Sets
1	Present			
2	Proposed / additional			
Total				

[* Annex a copy of the sanction letter from the concerned authority]

c	Details of fuels					
S.No.	Fuel	Daily Consumption (TPD)		Calorific value (Kcals/kg)	% Ash	% Sulphur
		Existing	Proposed			
1	HSD					
2	LSHS					
3	Other (specify)					

36	**Storage of inflammable / explosive materials**			**Not Applicable**
S. No.	Name	Number of Storages	Consumption (in TPD)	Maximum Quantity at any point of time
1	Fuels			
2	Explosives			

37	**Human Settlement**	
	Core Zone	Buffer Zone
Population*	-	Details given in Chapter III
No. of villages	-	
Number of households village-wise	-	

[* As per 2001 census record or actual survey]

38.	**Rehabilitation & Resettlement (R&R) Plan*** [*Provide a comprehensive rehabilitation plan, if more than 1000 people are likely to be displaced, other-wise a summary plan]	**Not Applicable**
a	Villages falling within the study area	

	Villages	
	Number	Name
Core zone		
500 m from the blasting site (s)		

Buffer zone						
Township site						
b	Details of village(s) in the core zone					
S. No.	**Village name**	**Population***				**Average Annual Income**
		Tribal	Others			
1						
[*As per 2001 census / actual survey]						
c	Population to be displaced and / or Land Oustees					
Name of village(s) falling within		Number of oustees				
		Land (only)	Homestead (only)	Land and Homestead (both)		
Mining Lease 1.						
Township Site 1.						
d	Whether R&R package has been finalized? If yes, salient features of R&R plan for oustees.					**Not Applicable**
i	Site details where the people are proposed to be resettled & facilities existing / to be created.					
ii	Funds earmarked for compensation package					
iii	Agency /Authority responsible for their resettlement.					
iv	Time of commencement of resettlement of Project Affected People (PAP).					
v	Period by which resettlement of PAP will be over.					
39	**Lease -wise plantation details**					
a	Lease area (in ha.)				Existing	Proposed
	i. Area broken up				--	-
	ii. To be broken up				-	18.88 Ha.
	iii. Area not to be broken-up				-	-
b	Township area (in ha.)				-	
c	Area afforested and proposed (in ha.)				-	
		Peripheral	Dumps	Roads	Township	Others
i	Existing					
ii	Proposed					
d	No. and type of trees planted and proposed					
i	Existing				--	
	When plantation was started?				Month / Year	
No. of plant species planted					Number saplings (per ha.)	
Bael, Neem, Aam, Amrud, Ashok, Jamun					10	
Survival rate %					Avg. height	
ii	Proposed					

	No. of plant species to be planted	Number of saplings (per ha.)
	--	--
40	**Environmental health and safety**	
a	What major health and safety hazards are anticipated?	Refer Chapter VII
	What provisions have been made/proposed to be made to conform to health and safety requirements?	As per Mines Act/ Rules
	In case of an existing mine	
i	Comprehensive report on health status of the workers as under the Mines Act annexed	As per Mines Act/ Rules
ii	Mineralogical composition of RPM (dust)	
	• Free silica	Not applicable
	• Chromium* (Total as well as Hexavalent)	Not applicable
	• Lead** [* Only for Chromite mines] [**Only for Base Metal mines]	Not applicable
	Information on radiation protection measures, if applicable	Not applicable

41. Environmental Management Plan

Salient features of environmental protection measures

S. No.	Environmental issues*	Already practiced, if applicable	Proposed
1	Air pollution	-	Regular water sprinkling, plantation □ Plantation will be done on both sides of the road
2	Water pollution	-	--
3.	Water conservation	-	General awareness,
4.	Noise pollution	-	Preventive maintenance of machines,
5.	Solid waste / Tailings	-	Not applicable
6.	Land degradation	-	Reclamation and rehabilitation by afforestation and conversion into water reservoir.
7.	Erosion & Sediment	-	NA
8.	Top soil	-	NA
9.	Ground vibration	-	NA
10.	Wildlife conservation	-	NA
11.	Forest protection	-	NA
12.	Others (specify)	-	Social training and general awareness

[* As applicable]

42	**Compliance with environmental safeguards (**For existing units)	**Yes**	**No**
	Status of the compliance of conditions of Environmental clearance issued by MoEF, if any, enclosed.	-	√
	Status of the compliance of 'Consent to Operate' issued by SPCB, if any, enclosed.	-	√
	Latest 'environmental statement' enclosed.	-	√
43	**Scoping of EIA**		
	Whether environmental impact assessment of the project has been carried out by following scoping process?	Yes	
	If yes, a copy of scoping of EIA annexed.	Details are given in Chapter I	
44	**Mine closure**		
a	Have you planned mine closure?	Yes	
b	Submitted a conceptual mine closure plan.	Yes	
c	If yes, indicate estimated amount for implementing the same (in Rs. lakhs)	-	
45	**Capital cost of the project (in Rs. Lakh) (Based on latest estimate)**	**Rs. 1933.4593 lakh -** (including auction cost).	

46. Cost of environmental protection measures (in Lakh)

Sl. No	Description	Capital (Cost lakh)	Recurring Cost (lakh)
1	Pollution Control & Dust Suppression	Nil	3.0
2	Pollution Monitoring i) Air pollution ii) Water pollution iii) Noise Pollution iv) Soil Pollution	--	2.0
3	Plantation and salary for one gardener (part time basis).	0.57	1.0
4	Haul road Maintenance Cost	1.5	1.44
5	Occupational Health and Safety of the workers	1.0	3.0
6	CER Budget (PH Commitment) a) Green belt development in vacant area of village Mahadeva (2000 nos. trees) b) Installation of Solar Lights in village Mahadeva. Rs. 25000*20	11.0	-
Grand Total		**14.07**	**10.44**

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

S. No	Area of Concern	Action Plan	Budget Allocated (in Lakh)	Time Period
1.	Green belt	Green belt development in vacant area of village Mahadeva (2000 nos. trees)	6.0	1st year
2.	Development Activity	Installation of Solar Lights in village Mahadeva. Rs. 25000*20	5.0	2nd Year
			11.0	

48. Public Hearing

a	Date of Advertisement	17.05.2023	
b	Newspapers in which the advertisement appeared	Prabhat Khabar, The Times of India	
c	Date of public hearing (DD/MM/YYYY)	21.06.2023	
d	Public Hearing Panel chaired by & members present	• ADM, Rohtas– Shree. Chandrashekhar Prasad Singh (Nominated by District Collector-Rohtas) • Shree Sain Kumar, Regional Officer, BSPCB, Patna, Patna	
e	No. of people attended the public hearing meeting and number of people from the lease area.	Around 45	
f	**Summary/details of public hearing in tabular form Given in chapter 7 of the EIA report.**		
49	**Whether the following approvals* (wherever**	**YES**	**NO**
a	Site clearance from MoEF	-	√
b	Consent for Establishment' from the State Pollution Control Board	-	√
c	NOC from Atomic Mineral Division	-	√
d	Mining plan approval from IBM / Ministry of Coal	√	-
e	In case of existing mines, mining scheme approval from IBM	-	√
f	Forestry clearance under FCA, 1980	-	√

g	NOC from Chief Controller of Explosives	-	√
h	Commitment regarding availability / pumping of water from the concerned Authorities	√	-
i	In case of ML area falling in notified areas of the Central Ground Water Authority, NOC from them.	-	√
[* Annex copies of approvals and number them]			
50	**Was / is there any court case relating to the project or related activities? If so, provide**	No	

****

Annexure –X

(DSR letter, Rohtas)

DISTRICT SURVEY REPORT FOR SAND MINERALS OF ROHTAS DISTRICT, BIHAR

Government of Bihar

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





June, 2022

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

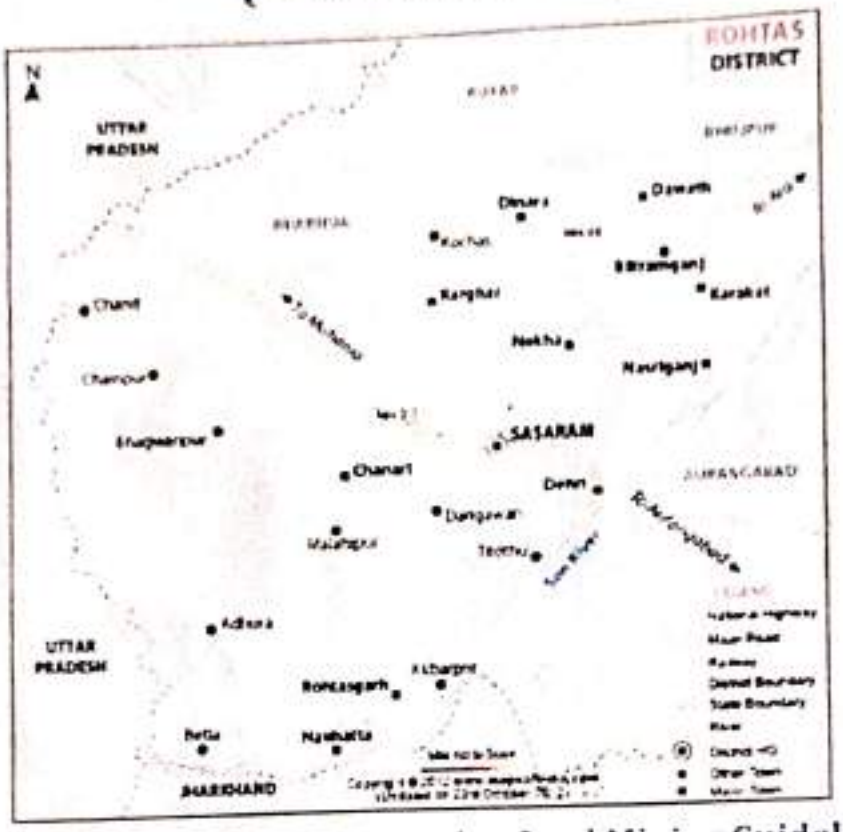
बिहार सरकार

DISTRICT SURVEY REPORT

रोहतास जिला, बिहार

Sand Minerals

(REVISED UPTO 21-26)



As per "Enforcement and Monitoring Sand Mining Guidelines, 2020
Ministry of Environment Forest and Climate change, Government of India

Submitted to

Under Secretary
Mines & Geology Department, Government of Bihar

Prepared By
District Mining Office
Sasaram, Rohtas

सभाहरणालय, रोहतास, सासाराम।

पत्रांक 1118 /जला सासाराम।
दिनांक 28/04 /2022

ई मेल - mining.dso@gmail.com

प्रेषक,

जिला पदाधिकारी,
रोहतास, सासाराम।

सेवा में

सदस्य सचिव,
State Environment Impact Assessment Authority (SEIAA), Bihar,
2nd Floor, BELTRON Bhawan, Shastri Nagar, Patna, Bihar-800023

विषय:- रोहतास जिला का सर्वेक्षण प्रतिवेदन (DSR) प्रारूप भेजने के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि माननीय उच्चतम न्यायालय द्वारा पारित आदेश तथा खान एवं भूतल विभाग, पटना से प्राप्त निदेश के आलोक में गठित अनुमण्डल स्तरीय समिति द्वारा आपत्तियों का निष्पादन कर सर्वेक्षण प्रतिवेदन (प्रारूप) तैयार कर अधोहस्ताक्षरी को समर्पित किया गया। जिसे पत्र के साथ संलग्न कर समीक्षा एवं मूल्यांकन हेतु भेजा जा रहा है।

अनुलग्नक:- यथोक्त।

28/04/22
जिला पदाधिकारी
रोहतास, सासाराम।

BIHAR
Received
26 APR 2022

समाहरणालय निबंधन प्राधिकरण, बिहार
SEIAA, Bihar

सचिवालय, दीघा, पटना।

(जिला कार्यालय)

फोन नं. [illegible] फैक्स नं. [illegible]

ई मेल [illegible]@gmail.com

पत्रांक [illegible] दिनांक 23/3/22

पूर्व में पेश किए गए जिला स्तरीय पर्यावरण प्रभाव मूल्यांकन समिति के सदस्य के संदर्भ में Revised Information के साथ संशोधित प्रपत्र पेश की गई है। समिति द्वारा संशोधित जिला स्तरीय पर्यावरण प्रभाव मूल्यांकन समिति सचिवालय का गठन किए जाने हेतु निर्णय लिया गया। साथ ही समिति द्वारा स्वीकृत किसान पर्यावरणी सलाहकार सचिवालय का विघटन किया गया है अतः जैसे ही संशोधित जिला स्तरीय पर्यावरण प्रभाव मूल्यांकन समिति सचिवालय के गठनोपरान्त भी की जा सके।

सदस्य सचिव सचिवालय, पटना (ग्रामीण)	सदस्य सचिव सचिवालय (शहरी)	सदस्य सचिव दीघा (शहरी)
सदस्य जिला स्तरीय समिति सचिवालय	सदस्य जिला स्तरीय समिति सचिवालय	सदस्य जिला स्तरीय समिति सचिवालय
सदस्य जिला स्तरीय समिति सचिवालय, पटना	सदस्य जिला स्तरीय समिति सचिवालय	सदस्य जिला स्तरीय समिति सचिवालय



STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR

2nd Floor, BELTRON Bhawan, Shastri Nagar, Patna – 800023.

Ref. No.- 132 Patna, Dated: - 07/04/2022

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

VENUE: SEIAA Office

DATE: 25th March, 2022

Minutes/Proceeding of the Meeting

1. **Opening Remarks of the Chairman:** The Chairman extended warm welcome to all the participants of the meeting. Thereafter, the meeting was opened for the proceeding as per the agenda adopted for this meeting.

2. **Confirmation of Minutes of 07th Meeting (07/2022)** vide ref.no.100 dated 11.03.2022 **of State Expert Appraisal Committee held on** 04th &05th March, 2022. The State Expert Appraisal Committee, hereinafter called the SEAC, was informed that no representation has been received regarding projects considered in meeting held on 04th & 05th March, 2022. Minutes of the meeting of SEAC were confirmed.

3. **Consideration of Proposals**: The SEAC considered proposals as per the agenda adopted for the 08th meeting (08/2022) circulated vide Ref. No.-114, dated-21.03.2022 and Ref. No.- 116, dated - 24.03.2022. The key points of deliberations held were as follows.

4. With regard to the proposals submitted for the District Survey Report (DSR) the Committee members considered and deliberated extensively on the District Survey Report (DSR), received for various districts, in the light of the Hon'ble Supreme Court's Order dated 10.11.2021 in Civil Appeal No. 3661-3662 of 2020 [Procedure and parameters laid down in the policy of Sustainable Sand Mining Management

SEIAA, Bihar

ix. Revise the table of estimation of sand resources in Pre-monsoon and post-monsoon period in sand bars.

x. All the primary and secondary data should be supported by proper references and documentary support along with the page no mentioned in compliance report of revised DSR.

AGENDA ITEM NO. 25

Revised District Survey Report for Rohtas district (E-mail dated:-24.03.2022 and Hardcopy Received date:- 24.03.2022)

Application along with letter from the District Magistrate vide letter No. 822, dated 23.03.2022 was submitted to SEAC, Bihar on 24th March, 2022 for the evaluation of the District Survey Report (DSR), revised as per the comments made by the SEAC.

Earlier in the meeting dated 06th, 07th, & 08th January 2022, the Committee had directed to submit the revised District Survey Report (DSR) as mentioned in the proceeding of that meeting. The compliance was submitted by concerned District in the light of the above said meeting, the same was placed before the committee and the concerned district representative made a presentation. The Committee observed infirmities and found not satisfactory. As such concerned district representative was directed to correct the DSR as follows :-

i. Clear and high resolution color images of the proposed ghats should be submitted with DSR including the date of photographs/ GPS location for identification of potential sand mining area.

ii. The specific gravity of the material also needs to be ascertained by analyzing the sample from a NABL accredited lab.

iii. The permanent boundary pillars need to be erected after identification of an area of aggradations and deposition outside the bank of the river at a safe location for future surveying. The distance between boundary pillars on each side of the bank shall not be more than 100 meters.

iv. Demand and supply of the Riverbed Material through market survey needs to be carried out. In addition to this, future demand for the next 5 years also needs to be considered, to justify the number and area of the sand ghats included in the DSR.

SEIAA, Bihar

v. Mining area may be so selected as to cover the entire deposition area. Dividing a large area of deposition/aggradations into smaller mining leases should be av oided as it leads to loss of mineral and indirectly promotes illegal mining.

vi. The DSRs should be placed in the public domain for at least one month from the date of publication of the advertisement for obtaining comments of the general public. The comments so received shall be placed before the concerned sub-divisional committee for active consideration for necessary corrections, if any. Only after such consultations, the DSR should be submitted before the SEAC.

vii. The Committee observed that sand ghats have been proposed on the confluence/meanders/concavities/active Channels which require to be excluded from the DSR. No mining area should be proposed at any bank concavities to avoid bank erosion and river instability.

viii. The Committee was not shown any such map where 1/4th part of the area has been separated from central 3/4th part of the river as a minable and non-minable zone.

ix. In case sand ghat is located near by the Forest/ Wildlife Protected Area, (Bird Sanctuary / Wildlife Sanctuary / National Park / Tiger Reserve) a certificate regarding distance of such ghat from the boundary of Forest/ Protect Area as well as the notification status and extent of the Eco-Sensitive Zone issued by the Ministry of Environment, Forest and Climate Change, Govt. of India should be enclosed with the DSR.

x. If the proposed mining area has overlapping areas with previously allotted existing lease or already working or worked out mining lease then the same should be clearly depicted in the proposed mining area with different colour. Details about the quantity of Sand extracted from the overlapped area should be furnished duly certified from the concerned Department.

xi. Provide different colour map for proposed and existing sand mining area and also submit State, District Wildlife Sanctuary, Eco-Sensitive Zone boundary in different colour map and KML file to check the suitability of the mining site.

xii. Submit a map and KML file regarding aquatic animal found in river.

xiii. Calculate the Minable Mineral potential for each sand ghat in the prescribed format (SSMG 2016, as prescribed in page no. 25 and 26) for each river separately.

xiv. It should be for each mine area with respect to sand mining done. [Ghats wise details of quantity of sand extracted and revenue generated (annually) for the past three

years]. Only Sand mining revenue should be included in DSR not brick kiln/other minerals revenue.

xv. All the Annexures as prescribed in the EMGSM, 2020 should be duly filled and complete.

xvi. Old and new proposed Ghats must be mentioned in the DSR. (List, Map & KML file).

xvii. District Border line (Bold mark) should be mentioned in the maps/images/KML file in DSR.

xviii. All the primary and secondary data should be supported by proper references and documentary support along with the page number in the compliance report of revised DSR.

xix. The replenishment study is not conducted by the concerned district. Whenever replenishment study conducted, submit the table of estimation of sand resources in Pre-monsoon and post-monsoon period for the sand deposit, with respect to the Reduced Level.

xx. FMISC (Flood Management Improvement Support Center), a R&D unit under WRD (Water Resource Department) at Anishabad has high resolution satellite maps of river systems of Bihar. District Authorities may contact the office of FMISC for procurement of geo-referenced maps of the river to support the DSR.

AGENDA ITEM NO. 26

Revised District Survey Report for Saran district (E-mail dated:-23.03.2022 and Hardcopy Received date:- 23.03.2022)

Application along with letter from the District Magistrate vide letter No. 750, dated 03.2022 was submitted to SEAC, Bihar on 23rd March, 2022 for the evaluation of the District Survey Report (DSR), revised as per the comments made by the SEAC.

Earlier in the meeting dated 06th, 07th, & 08th January 2022, the Committee had directed to submit the revised District Survey Report (DSR) as mentioned in the proceeding of that meeting. The compliance was submitted by concerned District in the light of the above said meeting, the same was placed before the committee and the concerned district representative made a presentation. The Committee observed infirmities and found not satisfactory. As such concerned district representative was directed to correct the DSR as follows :-

Resolution of the Committee:-

The final DSR should be prepared in a book format (may be spiral binded) with an index page referring the page numbers where the corrections / amendments were made, for quick reference, in a tabular format.

SEAC has unanimously decided to forward the above referred DSR, of the concerned districts with the aforementioned observations for the consideration of SEIAA.

LIST OF PARTICIPANTS IN 08th MEETING OF SEAC, BIHAR HELD ON 25th MARCH 2022

S. No.	Name	Designation	Attended on 25.03.2022
1.	Dr. Gopal Sharma	Chairman	Present
2.	Dr. Ramakar Jha	Member	Present
3.	Dr. Bibha Kumari	Member	Present
4.	Dr. Anshumali	Member	Present through video link
5.	Dr. Aditya Mohanty	Member	Present through video link
6.	Shri Mokhtarul Haque	Member	Present
7.	Shri AjitSamaiyar	Member	Absent.
8.	Shri Ranjan Kumar	Member	Present.
9.	Shri S. Chandrasekar	Member Secretary	Present

Signature(s) of Members Present

Sd/
(Dr. Ramakar Jha)
Member, SEAC

Sd/
(Dr. Bibha Kumari)
Member, SEAC

Sd/
(Mokhtarul Haque)
Member, SEAC

Sd/
(Ranjan Kumar)
Member, SEAC

Sd/
(Dr. Anshumali)
Member, SEAC

Sd/
(Dr. Aditya Mohanty)
Member, SEAC

07/4/22

(S. Chandrasekar, IFS)
Member Secretary, SEAC

07.4.2022

(Dr. Gopal Sharma)
Chairman, SEAC

SEIAA, Bihar

COMPLIANCE TO THE MINUTES HELD ON 25.03.2022 OF THE EIGHTH MEETING OF THE STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR VIDE LETTER NO REF NO. 132, PATNA, DATED 07.04.2022

SL.NO.	OBSERVATION	COMPLIANCE
1	Clear and High resolution Color Image of the proposed ghat should be submitted with DSR including the date of photographs and GPS location for identification of potential sand mining area.	We have provided ESRI BASE MAP (Pre-Monsoon) having resolution 5 M & FCC-USGS LANDSET 8 (Post-Monsoon) having resolution 30 M in the DSR. All Satellite Imageries are furnished as **Annexure XII**
2	The specific gravity of the material also needs to be ascertained by analyzing the sample from a NABL accredited lab.	Sp. Gravity and bulk density of sand is analyzed from NABL lab The report of the same is attached as **Annexure V**
3	The permanent boundary pillars need to be erected after identification of an area of aggradation and deposition outside the bank of the at a safe location for future surveying. The distance between boundary pillar on each side of the bank shall not be more than 100 meters.	Noted, Permanent boundary pillars will be fixed after Approval of Mining Plan.
4	Demand and supply of the Riverbed Material through market survey needs to be carried out. In addition to this future demand for the next 5 years also needs to be considered, to justify the number and area of the sand ghats.	Complied with. Please refer 2.3 Demand and Supply of Sand.
5	Mining area may be so selected as to cover the entire deposition area' Dividing a large area of deposition/aggradation into smaller mining leases should be avoided as it leads to loss of mineral and indirectly promotes illegal mining.	Complied with.
6	The DSRs should be placed in the public domain for at least one month from the date of publication of the advertisement for obtaining comments of the general public. The comments so received shall be placed before the sub-divisional committee for active consideration. Only after such consultation of the DSR should be submitted before the SEAC'	Complied with. Already uploaded in the District Portal. Upload on Dated 24.02.2022.  No complain/Comments received.
7	The committee observed that sand ghats have been proposed on the	No mining lease has been proposed on the confluence/active Channels of the Rivers.

राज्य स्तरीय समीक्षा प्राधिकरण, बिहार
SEIAA, Bihar

COMPLIANCE TO THE MINUTES HELD ON 25.03.2022 OF THE EIGHTH MEETING OF THE STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR VIDE LETTER NO. REF NO. 132, PATNA, DATED 07.04.2022

	confluence/meanders/concavities/active channels which require to be excluded from the DSR. No mining area should be proposed at any bank concavities to avoid bank erosion and river stability'	While the few lease which are proposed on the concave side of the river will be strictly mined at the depth 3 m or above ground water level. The replenishment study also proved 100 % replenishment rate of sand. Please refer Table no. 7.10, Table no. 7.11, Table no. 7.12 & Table no. 7.13.
8	The Committee was not shown any such map where 1/4th part of the area has been separated from central 3/4th part of the river as a minable and non-minable zone.	Complied with. Please refer to Plates.
9	In case sand ghat is located near by the forest/wildlife protected area (Bird Sanctuary/Wildlife Sanctuary/ National Park/ Tiger reserve) a certificate regarding distance of such ghat from the boundary of the forest/ protected area as well as the notification status and extent of the Eco sensitive zone issued by the ministry of Environment, forest and climate change, govt of India should be enclosed with the DSR.	No sand mining is proposed within Forest / Wildlife Protected Area, (Bird/Wildlife Sanctuary / National Park/ Tiger Reserve). The ENVIS data showing Forest/Wildlife Protected Area, (Bird/ Wildlife Sanctuary/ National Park / Tiger Reserve) is reconfirmed through the GIS. A certificate is furnished as Annexure X
10	If the proposed mining area has over lapping areas with previously allotted existing lease or already working or worked out mining lease then the same should be clearly depicted in the proposed mining area with different colour. Details about the quantity of Sand extracted from the overlapped area should be furnished duly certified from the concerned Department.	Complied with. Please refer Plate attached.
11	Provide different colour map for proposed and existing sand mining area and also submit State, District Wildlife Sanctuary, Eco-Sensitive Zone boundary in different colour map and KML file to check the suitability of the mining site.	Complied with.
12	Submit a map and KML file regarding aquatic animal found in river.	Complied with.

SEIAA, Bihar

COMPLIANCE TO THE MINUTES HELD ON 25.03.2022 OF THE EIGHTH MEETING OF THE STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR VIDE LETTER NO REF NO 132, PATNA, DATED 07.04.2022

13	Calculate the Mineable Mineral potential for each sand ghat in the prescribed format (SSMG 2018 as prescribed in page no.25 and 26).	Complied with.
14	It should be for each mine area with respect to sand mining done. [Ghats wise details of quantity of sand extracted and revenue generated (annually) for the past three years]. Only Sand mining revenue should be included in DSR not brick kiln other minerals revenue.	Complied with. Please refer Table 9.1.
15	All the Annexures as prescribed in the EMGSM 2020 should be duly filled and complete.	All the annexures has been attached as per EMGSM 2020.
16	Old and new proposed Ghats must be mentioned in all the DSR. (List, Map & KML file).	Complied with.
17	District Border line (Bold mark) should be mentioned in the maps/images/KMl file in all DSR.	Complied with.
18	All the primary and secondary data should be supported by proper references and documentary support.	The DSR hence prepared by considering proper references and documentary support.
19	The replenishment study is not conducted by the concerned district. Whenever replenishment study conducted submit the table of estimation of sand resource in pre monsoon and post monsoon period for the sand deposit, with respect to the reduced level	The entire potential zone is demarcated on the basis of replenishment study report in last 4 years. Replenishment study data is attached in Page No 66-67 of DSR.
20	FMISC (Flood Management Improvement Support Center), a R&D unit under WRD (Water Resource Department) at Anishabad, has high resolution satellite maps of river	We have provided ESRI BASE MAP (Pre-Monsoon) having resolution 5 M & FCC-USGS LANDSET 8 (Post-Monsoon) having resolution 30 M in the DSR. These Maps have high

SEIAA, Bihar

COMPLIANCE TO THE MINUTES HELD ON 25.03.2022 OF THE EIGHTH MEETING OF THE STATE LEVEL EXPERT APPRAISAL COMMITTEE (SEAC), BIHAR VIDE LETTER NO REF NO. 132, PATNA, DATED 07.04.2022

	systems of Bihar. These comprise of recent as well as of past years. District Authorities may contact the office of FMISC for procurement of geo-referenced maps of the river to support the DSR.	resolution and used in place of FMISC Maps. Furnished as Annexure XIV



राज्य पर्यावरण समाधात निर्देश प्राधिकार
SEIAA,
Bihar

Final List of Potential Mining Leases (existing & proposed) Rivers

Annexure-V

EXISTING GHATS

River Details	Lease Details	Area (in Ha)	Distance (in KM) from PA/BR/WC /	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in Tonnes /Annum considering digging depth max as 3 meters	Mineral to be mined (Sand/Bajri / RBM etc.)	Existing / Proposed
Son	Amiyawar Ghat A	22.5	NA	Approx. 24.88 km	NO	972000	Sand	Existing
Son	Amiyawar Ghat B	22.5	NA	Approx. 23.06 km	NO	972000	Sand	Existing
Son	Mangrawan Ghat A	22.5	NA	Approx. 35.83 km	NO	972000	Sand	Existing
Son	Mangrawan Ghat B	22.5	NA	Approx. 37.10 km	NO	972000	Sand	Existing
Son	Sankarpura Ghat A	24	NA	Approx. 4.54 km	NO	1036800	Sand	Existing
Son	Sankarpura Ghat B	24	NA	Approx. 4.41 km	NO	1036800	Sand	Existing
Son	Darihat Ghat 3	24.8	NA	Approx. 18.21 km	NO	1071360	Sand	Existing
Son	Kaithi Ghat	24	NA	Approx. 40.09 km	NO	1036800	Sand	Existing
Son	Danwar Ghat	24	NA	Approx. 42.84 km	NO	1036800	Sand	Existing
Son	Paruahara Ghat 2	24	NA	Approx. 21.83 km	NO	1036800	Sand	Existing
Son	Katar Ghat	24.8	NA	Approx. 5.90 km	NO	1071360	Sand	Existing
Son	Kerpa Ghat	24.8	NA	Approx. 1.54 km	NO	1071360	Sand	Existing



PROPOSED GHATS

River Details	Lease Details	Area (in Ha)	Distance (in KM) from PA/BR/WC /	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in Tonnes /Annum considering digging depth max as 3 meters	Mineral to be mined (Sand/Bajri / RBM etc.)	Existing / Proposed
SON	ROHTAS SON 1	17.83	NA	Approx. 35.80 km	No	577724.4	Sand	Proposed
SON	ROHTAS SON 2	28.7	NA	Approx. 31.24 km	No	929880	Sand	Proposed
SON	ROHTAS SON 3	72.5	NA	Approx. 27.40 km	No	2349000	Sand	Proposed
SON	ROHTAS SON 4	99.8	NA	Approx. 24.83 km	Yes	3233520	Sand	Proposed
SON	ROHTAS SON 5	86.4	NA	Approx. 23.48 km	Yes	2799360	Sand	Proposed
SON	ROHTAS SON 6	46.6	NA	Approx. 23.00 km	Yes	1509840	Sand	Proposed
SON	ROHTAS SON 7	98.8	NA	Approx. 21.97 km	No	3201120	Sand	Proposed
SON	ROHTAS SON 8	96.5	NA	Approx. 17.38 km	Yes	3126600	Sand	Proposed
SON	ROHTAS SON 9	98.3	NA	Approx. 15.68 km	Yes	3184920	Sand	Proposed
SON	ROHTAS SON 10	98.95	NA	Approx. 14.57 km	Yes	3205980	Sand	Proposed
SON	ROHTAS SON 11	96.7	NA	Approx. 13.47 km	Yes	3133080	Sand	Proposed

Son	Majhiao Ghat	24	NA	Approx. 19.19 km	NO	1036800	Sand	Existing
Son	Paruhat Ghat	24.8	NA	Approx. 20.06 km	NO	1071360	Sand	Existing
Son	Chaknaha Ghat	24.8	NA	Approx. 5.09 km	NO	1071360	Sand	Existing
Son	Hurka Ghat	24	NA	Approx. 11.59 km	NO	1036800	Sand	Existing
Son	Jarha Bigha 1	24	NA	Approx. 2.86 km	NO	1036800	Sand	Existing
Son	Jarha Bigha 2	24.8	NA	Approx. 2.85 km	NO	1071360	Sand	Existing
Son	Mahadeva 1 Ghat	24	NA	Approx. 33.40 km	NO	1036800	Sand	Existing
Son	Ramdhira Ghat I	24	NA	Approx. 1.18 km	NO	1036800	Sand	Existing
Kow	Samri Ghat	1	NA	Approx. 48.20 km	NO	43200	Sand	Existing
Kow	Sadaudihra Ghat	1.5	NA	Approx. 41.68 km	NO	64800	Sand	Existing
Kow	Gosaldih Ghat	1	NA	Approx. 40.88 km	NO	43200	Sand	Existing
Thora	Jamsona Ghat	1	NA	Approx. 46.18 km	NO	43200	Sand	Existing
SON	DARIAHAT 2	4.8	NA	Approx. 15.08 km	NO	241883	Sand	Existing
SON	DARIAHAT 1	3.1	NA	Approx. 13.95 km	NO	150187	Sand	Existing
SON	DALMIANAGAR	4.9	NA	Approx. 10.68 km	NO	237010	Sand	Existing
SON	TILOUTHU	4.9	NA	Approx. 4.58 km	NO	239550	Sand	Existing
SON	RAMDIHRA	15.5	NA	Approx. 0.40 km	NO	739198	Sand	Existing
SON	MAHADEV	4.7	NA	Approx. 34.45 km	NO	222788	Sand	Existing

SON	ROHTAS SON 12	89.96	NA	Approx. 12.72 km	Yes	2914704	Sand	Proposed
SON	ROHTAS SON 13	57.8	NA	Approx. 12.29 km	Yes	1872720	Sand	Proposed
SON	ROHTAS SON 14	33.7	NA	Approx. 10.61 km	No	1091880	Sand	Proposed
SON	ROHTAS SON 15	69.6	NA	Approx. 6.64 km	No	2255040	Sand	Proposed
SON	ROHTAS SON 16	86.1	NA	Approx. 6.02 km	No	2789640	Sand	Proposed
SON	ROHTAS SON 17	97.4	NA	Approx. 5.23 km	No	3155760	Sand	Proposed
KOW	ROHTAS KOW 01	0.03	NA	Approx. 11.37 km	No	648	Sand	Proposed
KOW	ROHTAS KOW 02	0.06	NA	Approx. 13.42 km	No	1296	Sand	Proposed
KOW	ROHTAS KOW 03	0.09	NA	Approx. 14.52 km	No	1944	Sand	Proposed
KOW	ROHTAS KOW 04.1	0.08	NA	Approx. 15.0 km	Yes, Area 0.51 Ha	1728	Sand	Proposed
KOW	ROHTAS KOW 04.2	0.04	NA	Approx. 15.10 km		864	Sand	Proposed
KOW	ROHTAS KOW 04.3	0.36	NA	Approx. 15.19 km		7776	Sand	Proposed
KOW	ROHTAS KOW 04.4	0.03	NA	Approx. 15.55 km		648	Sand	Proposed
KOW	ROHTAS KOW 05	0.01	NA	Approx. 34.77 km	No	216	Sand	Proposed
KOW	ROHTAS KOW 06	0.03	NA	Approx. 34.93 km	No	648	Sand	Proposed
KOW	ROHTAS KOW 07	0.02	NA	Approx. 42.16 km	No	432	Sand	Proposed
THORA	ROHTAS Thora 1.1	0.07	NA	Approx. 45.94 km	Yes, Area 0.27 Ha	1512	Sand	Proposed

THORA	ROHTAS Thora 1.2	0.02	NA	Approx. 45.95 km		432	Sand	Proposed
THORA	ROHTAS Thora 2	0.18	NA	Approx. 45.85 km		3888	Sand	Proposed
THORA	ROHTAS Thora 3	0.03	NA	Approx. 44.92 km	No	648	Sand	Proposed

Patta Lands/Khatedari Land: (existing & proposed)

Owner	Sy. No	Area	District	Tehsil	Village	Total Reserve (MT)	Total Mineral to be mined (MT)	Existing /Proposed
None	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

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

Name of Reservoir /Dams	Maintain /Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size (Ha)	Quantity MT /Year	Existing /Proposed
None	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

M-Sand Plants :(existing & proposed)