

# राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण, म.प्र.

(पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, भारत सरकार)

पर्यावरण नियोजन एवं समन्वय संगठन पर्यावरण परिसर, ई—5, अरेरा कॉलोनी भोपाल—462016 (म.प्र.) बेवसाईट— http://www.mpseiaa.nic.in

साईट— <u>http://www.mpseiaa.nic.in</u> दूरभाष नं. — 0755—2466970, 2466859 फैक्स नं. — 0755—2462136

No: 2656/SEIAA/2023

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प्रति.

कलेक्टर

जिला – भिण्ड (म.प्र.)

विषयः नवीन जिला सर्वेक्षण रिपोर्ट - भिण्ड (रेत खनिज)

संदर्भ: आपका पत्र क0 क्यू दिना क 13/01/23

राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 770वी बैठक दिनांक 02.02.2023 में निम्नानुसार निर्णय लिया गया :--

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 620वीं बैठक दिनांक 13.01.2023 में भिण्ड जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) में निम्नानुसार सुझाव सहित अनुशंसा की गई है :

'...... समिति ने पाया कि प्रभारी खिन निरीक्षक, जिला भिण्ड ने पत्र क0 क्यू दिनांक 13/01/23 के माध्यम खदान की वांछित जानकारी प्रस्तुत कर दी है। अतः समिति की अनुशंसा है कि भिण्ड जिले की जिला सर्वेक्षण रिपोर्ट (रेत खिनज) अनुमोदन हेतु विचारार्थ एंव आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये। '

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 620वीं बैठक दिनांक 13.01.2023 के अनुमोदन प्रस्ताव को मान्य करते हुए मिण्ड जिले की जिला सर्वेक्षण रिपोर्ट (रेत खिनज) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है। तदानुसार जिला कलेक्टर, भिण्ड को जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक, भौमिकी तथा खिनकर्म को सूचित किया जाये।

उपरोक्त निर्णयानुसार कृपया अनुमोदित नवीन जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करने का कष्ट करें। सुलम संदर्भ हेतु अनुमोदित नवीन जिला सर्वेक्षण रिपोर्ट की साफ्टकॉपी ई-मेल के माध्यम से आपकी ओर प्रेषित है।

(मुजीबुर्रहमान खान)

सदस्य सचिव

/SEIAA / 2023 भोपाल

दिनांक

प्रतिलिपि :--

क्र..

1. प्रमुख सचिव, म.प्र. शासन, पर्यावरण विभाग, मंत्रालय, भोपाल की ओर कृपया सूचनार्थ ।

2. संचालक, प्रशासन / तकनीकी, संचालनालय, भौमिकी तथा खनिकर्म, 29-ए, खनिज भवन, अरेरा हिल्स, भोपाल (म.प्र.)

3. सदस्य सचिव, राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC), अनुसंधान एवं विकास विंग, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई—5, अरेरा कॉलोनी, भोपाल (म.प्र) — 462016 की ओर सूचनार्थ।

सदस्य सचिव



# राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण म.प्र. की 770वी बैठक दिनांक 02.02.2023 का कार्यवाही विवरण

# ा. जिला सर्वेक्षण रिपोर्ट, भिण्ड (रेत खनिज)

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 620वीं बैठक दिनांक 13.01.2023 में खंडवा-जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज - रेत को छोड़कर) में निम्नानुसार सुझाव सहित

........... सिमिति ने पाया कि प्रभारी खिन निरीक्षक, जिला भिण्ड ने पत्र क0 क्यू दिनांक 13/01/23 के माध्यम खदान की वांछित जानकारी प्रस्तुत कर दी है। अतः समिति की अनुशंसा है कि भिण्ड जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 620वीं बैठक दिनांक 13.01.2023 के अनुमोदन प्रस्ताव को मान्य करते हुए भिण्ड जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है। तदानुसार जिला कलेक्टर, भिण्ड को जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक, भौमिकी तथा खनिकर्म को सूचित किया जाये।

# 2. जिला सर्वेक्षण रिपोर्ट, कटनी (संशोधित) - (अन्य गौण खनिज -रेत को छोड़कर)

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 620वीं बैठक दिनांक 13.01.2023 में कटनी जिले की जिला सर्वेक्षण रिपोर्ट (संशोधित) (अन्य गीण खनिज -रेत को छोड़कर) में निम्नानुसार सुझाव सहित अनुशंसा की गई है:

.....समिति ने प्राप्त जिला सर्वेक्षण रिपोर्ट का अवलोकन करने पर पाया कि चेप्टर कमांक–25 के अंतर्गत सरल क्रमांक-9, 18, 19 इत्यादि में किये गए वृक्षारोपणों की संख्या दी गई है, उनको जब नमूने के तौर पर (रेन्डमली) सत्यापन करने पाया गया कि जिला सर्वेक्षण रिपोर्ट में दिए गए को-आर्डिनेट अनुसार गूगल पर देखने से किए गए वृक्षारोपण के संख्या की पुष्टि नहीं होती तथा ऐसा प्रतीत होता है कि दी गई जानकारी में त्रुटि है, अतः समिति की अनुशंसा है कि संबंधित खनिज अधिकारी उपरोक्त जानकारी को पूनः सत्यापित कर वास्तविक वृक्षों की संख्या के साथ जिला सर्वेक्षण रिपोर्ट को पुनः सिमिति के समक्ष अनुमोदन हेतु प्रस्तुत करें।

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत निर्णय लिया गया कि SEAC की 620वीं बैठक दिनांक 13.01.2023 की अनुशंसा को मान्य करते हुए सर्व सम्मति से निर्णय लिया गया कि जिला कलेक्टर कटनी को सूचित किया जाये कि SEAC द्वारा सुझाई की उपरोक्त अनुशंसाओं को संशोधित जिला सर्वेक्षण रिपोर्ट में अद्यतन किया जाकर पर्यावरण, वर्ग एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 में निर्धारित फार्मेट में संशोधित एवं अद्यतन वांछित जानकारी सीधे ही SEAC को प्रेषित करते हुए SEIAA को भी प्रति प्रस्तुत करें। तदानुसार संचालक, भौमिकी तथा खनिकर्म को सूचित किया जाये।

सदस्य सचिव

# 620वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 13 जनवरी 2023

# 18. जिला सर्वेक्षण रिपोर्ट भिण्ड (रेत खनिज)

सिया के पत्र क्रमांक 728 दिनांक 08.06.2022 के द्वारा जिला भिण्ड की जिला सर्वेक्षण रिपोर्ट अनुमोदित की गई थी । कार्यालय कलेक्टर (खनिज शाखा) जिला भिण्ड म.प्र. ने पत्र क्रमांक 6763 दिनांक 29/12/22 के माध्यम से अवगत कराया गया कि उनके द्वारा भिण्ड जिले की (रेत खनिज)\_नवीन जिला सर्वेक्षण रिपोर्ट अनुमोदन हेतु प्रस्तुत की जा रही है, क्योंकि पूर्व में अनुमोदित डी०एस0आर0 में रेत खदानों के सभी जी.पी.एस. कॉर्डीनेट के आधार पर क्षेत्र में परिवर्तन, रेत खनिज मात्रा में REPLENISHMENT STUDY REPORT के आधार पर रेत खनिज मात्रा में संशोधन करने एवं ग्राम गोरम 1472, चंद्रावली व भरौलीखुर्द रेत खदानों में निजी सर्वे नंबर होने से संशोधन करने हेतु पुनः जिला स्तरीय समिति के सदस्यों द्वारा सस्टेनेबल सेण्ड माइनिंग मैनेजमेंट गाईडलाईन, 2016 एवं इनफोर्समेंट मानिटरिंग फार सेण्ड माइनिंग 2020 के निर्देशों के तहत प्रारूप जिला सर्वेक्षण रिपोर्ट (DSR) का तैयार की गई। प्रारूप डीएसआर को 21 दिवस की अवधि हेतु जिले के पोर्टल (bhind.nic.in) पर तथा हार्डकॉपी खनिज कार्यालय भिण्ड में आमजन के दाबा/आपित्त एवं सुझाव हेतु रखी गयी। प्राप्त दाबा/आपित्तयों का समिति द्वारा अवलोकन एवं निराकरण कर उक्त जिला सर्वेक्षण रिपोर्ट को अद्यतन किया गया। पूर्ण परीक्षण उपरांत जिला सर्वेक्षण रिपोर्ट (DSR) के भौतिक और भौगोलिक क्षेत्रों से संबंधित प्रासंगिक तथ्यों के सही पाये जाने पर समिति द्वारा अनुमोदन कर प्रतिवेदन प्रस्तुत किया गया।

अध्यक्ष महोदय की अनुमित से दिनांक 11/01/23 को सेक की 618वीं बैठक के दौरान श्री दिनेश सिंह डुडवे, प्रभारी खिन निरीक्षक, जिला भिण्ड समिति के समक्ष प्रस्तुतीकरण के हेतु उपस्थित हुए । समिति ने प्राप्त जिला सर्वेक्षण रिपोर्ट का अवलोकन किया एवं पाया कि कई खदानों में लीज क्षेत्र में परिवर्तन, खनन् की गहराई में परिवर्तन एवं उत्पादन क्षमता में परिवर्तन किया गया है । अतः समिति ने उपस्थित श्री दिनेश सिंह डुडवे, प्रभारी खिन निरीक्षक, जिला भिण्ड को निर्देशित किया कि वे पूर्व में अनुमोदित जिला सर्वेक्षण रिपोर्ट एवं वर्तमान में प्रस्तुत जिला सर्वेक्षण रिपोर्ट का तुलनात्मक विवरण प्रस्तुत करें तािक यह ज्ञात हो सके कि किन—किन खदानों में क्या—क्या परिवर्तन हुआ है। सिमिति ने यह भी निर्देशित किया कि यदि श्री दिनेश सिंह डुडवे, प्रभारी खिन निरीक्षक, जिला भिण्ड चाहें तो जिला सर्वेक्षण रिपोर्ट में सुधार कर पुनरीक्षित जानकारी दिनांक 12/01/23 को प्रस्तािवत सेक की 619वीं बैठक के दौरान कर सकते है ।

श्री दिनेश सिंह डुडवे, प्रभारी खिन निरीक्षक, जिला भिण्ड द्वारा तुलनात्मक शीट तैयार कर सिमित के समक्ष दिनांक 12/01/23 को सिमित की 619वीं बैठक में पुनः प्रस्तुत किया गया है । सिमित ने प्राप्त पुनरीक्षित जानकारी का अवलोकन किया एवं पाया कि प्रस्तुत तुलनात्मक विवरण में रिमार्क कॉलम को जोड़कर यह बताया जाये कि जिन खदानों में उत्पादन क्षमता बढी/ कम हुई है उसका कारण क्या है। क्षेत्र एवं गहराई कैसे बढ़ी के संबंध में स्पष्टीकरण चाहा गया । सिमित ने यह भी निर्देशित किया कि यदि श्री दिनेश सिंह डुडवे, प्रभारी खिन निरीक्षक, जिला भिण्ड चाहें तो जिला सर्वेक्षण रिपोर्ट में सुधार कर पुनरीक्षित जानकारी दिनांक 13/01/23 को प्रस्तावित सेक की 620वीं बैठक के दौरान कर सकते हैं।

# 620वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 13 जनवरी 2023

श्री दिनेश सिंह डुडवे, प्रभारी खिन निरीक्षक, जिला भिण्ड द्वारा सिमित से प्राप्त निर्देशों के अनरूप तुलनात्मक शीट तैयार कर सिमित के समक्ष दिनांक 13/01/23 को सिमित की 620वीं बैठक में पुनः प्रस्तुत किया गया । सिमित ने पाया कि प्रभारी खिन निरीक्षक, जिला भिण्ड ने पत्र कृ0 क्यू दिनांक 13/01/23 के माध्यम खदान की वांछित जानकारी प्रस्तुत कर दी है। अतः सिमित की अनुशंसा है कि भिण्ड जिले की जिला सर्वेक्षण रिपोर्ट (रेत खिनज) अनुमोदन हेतु विचारार्थ एंव आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये।

# 19. जिला सर्वेक्षण रिपोर्ट, कटनी (अन्य गौण खनिज – रेत को छोड़कर)

आज दिनांक 13/01/2023 को कटनी जिले की जिला सर्वेक्षण रिपोर्ट प्रस्तुत की गई । सिमिति ने पाया कि कटनी जिले की जिला सर्वेक्षण रिपोर्ट पत्र क0. 07 दिनांक 04/01/23 के माध्यम से सेक प्राप्त हुई है जिसको परीक्षण करने पर यह पाया कि बार—बार अवगत (दिनांक 21/09/22 एवं 14/12/22) कराने के बावजूद भी कटनी जिले की जिला सर्वेक्षण रिपोर्ट को निर्धारित प्रपत्र अनुसार सही जानकारी के साथ प्रस्तुत नहीं किया जा रहा है जिस पर सिमिति ने अप्रसन्नता व्यक्त की । सिमिति ने प्राप्त जिला सर्वेक्षण रिपोर्ट का अवलोकन करने पर पाया कि चेप्टर क्रमांक—25 के अंतर्गत सरल क्रमांक—9, 18, 19 इत्यादि में किये गए वृक्षारोपणों की संख्या दी गई है, उनको जब नमूने के तौर पर (रेन्डमली) सत्यापन करने पाया गया कि जिला सर्वेक्षण रिपोर्ट में दिए गए को—आर्डिनेट अनुसार गूगल पर देखने से किए गए वृक्षारोपण के संख्या की पुष्टि नहीं होती तथा ऐसा प्रतीत होता है कि दी गई जानकारी में त्रुटि है, अतः सिमिति की अनुशंसा है कि संबंधित खनिज अधिकारी उपरोक्त जानकारी को पुनः सत्यापित कर वास्तविक वृक्षों की संख्या के साथ जिला सर्वेक्षण रिपोर्ट को पुनः सिमिति के समक्ष अनुमोदन हेतु प्रस्तुत करें।

# 20. अध्यक्ष महोदय की अनुमित से अन्य विषय पर चर्चा -

पूर्व में सेक द्वारा प्रकरणों के प्रस्तुतीकरण के दौरान राष्ट्रीय उद्यान / अभ्यारण्य या वन क्षेत्र से दूरी की पुष्टी हेतु संबंधित जानकारी एकल प्रमाण पत्र के माध्यम से या वन विभाग के सक्षम प्राधिकारी से प्राप्त जानकारी के आधार पर किया जाता था ।

विगत् कुछ महीनो से पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा परिवेश—2 पोर्टल के माध्यम से आवेदन स्वीकार कर सिया के माध्यम से सेक को प्राप्त हो रहे है जिसमें वन विभाग से संबंधित जानकारी (राष्ट्रीय उद्यान / अभ्यारण्य / वन क्षेत्र) की जानकारी डिजिटाईज्ड मेप के माध्यम से अन्य मेप्स के साथ एक प्लेटफार्म पर उपलब्ध करा दी गई है।

परिवश—2 पर इन डिजिटाईज्ड मेप के माध्यम से प्रकरणों के प्रस्तुतीकरण के दौरान यह देखने में आया है कि कई प्रकरणों में एक प्रमाण पत्र के अनुसार आवेदित क्षेत्र वनसीमा से 250 मीटर से अधिक दूरी पर है (प्रकरण क. 9401/606, 9423/608, 9228/609, 9490/614, 9518/616, 8720/618, 9042/619 इत्यादि) किंतु परिवेश—2 पर अपलोडिड डिजीटाईज्ड मेप के अनुसार वह आवेदित क्षेत्र 250 मीटर की सीमा के अंदर दिख रहा है । ऐसी स्थिति में समिति ने पूर्व में यह निर्धारित किया था कि

Diarded 19, 618/619/620 04

Dt. 11/12 2 1314 Jan 2023

# कार्यालय कलेक्टर (खनिज शाखा) जिला भिण्ड (म०प्र०)

Email - modgmbhi@mp.gov.in

क्रमांक-- ...... / खनिज / 2022

भिण्ड, दिनांक 13/01/23

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सचिव (SEAC), अनुसंधान एवं विकास विंग, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई—5, अरेरा कॉलोनी, भोपाल (म.प्र.)

विषय:--जिला सर्वेक्षण रिपोर्ट (DSR) के संबंध में।

संदर्भ:—1. माननीय राष्ट्रीय हरित प्राधिकरण नई दिल्ली का आदेश 726/2018 एवं 456/2018 दिनांक 04.11.2020।

2. संवालनालय, भौमिकी तथा खनिकर्म, म.प्र. भोपाल का पत्र क्र.—16039 दिनांक 25.11.2021, पत्र क्र. 2981 दिनांक 03.03.2022 एवं पत्र क्र. 4755 दिनांक 08.04.2022

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छपरोक्त विषयान्तर्गत लेख है कि जिला भिण्ड की जिला सर्वेक्षण रिपोर्ट SEIAA के पत्र क. 728 दिनांक 08.06.2022 से अनुमोदित की गई है। अनुमोदित डी०एस0आर0 में रेत खदानों के सभी जी.पी.एस. कॉर्डीनेट के आधार पर क्षेत्र में परिवर्तन, रेत खनिज मात्रा में REPLENISHMENT STUDY REPORT के आधार पर रेत खनिज मात्रा में संशोधन करने एवं ग्राम गोरम 1472, चंद्रावली व भरौलीखुर्द रेंत खदानों में निजी सर्वे नंबर होने से एवं अन्य खदानों में संशोधन करने हेतु पुनः जिला स्तरीय समिति के सदस्यों द्वारा सस्टेनेबल सेण्ड माइनिंग मैनेजमेंट गाईडलाईन, 2016 एवं इनफोर्समेंट मानिटरिंग फार सेण्ड माइनिंग 2020 के निर्देशों के तहत प्रारूप जिला सर्वेक्षण रिपोर्ट (DSR) का तैयार की गई। प्रारूप डीएसआर को 21 दिवस की अवधि हेतु जिले के पोर्टल (bhind.nic.in) पर तथा हार्डकॉपी खनिज कार्यालय भिण्ड में आमजन के दाबा/आपत्ति एवं सुझाव हेतु रखी गयी। प्राप्त दाबा/आपत्तियों का समिति द्वारा अवलोकन एवं निराकरण कर उक्त जिला सर्वेक्षण रिपोर्ट को अद्यतन किया गया। पूर्ण परीक्षण उपरांत जिला सर्वेक्षण रिपोर्ट (DSR) के भौतिक और भौगोलिक क्षेत्रों से संबंधित प्रासंगिक तथ्यों के राही पाये जाने पर समिति द्वारा अनुमोदन कर प्रतिवेदन प्रस्तुत किया गया।

दिनांक 11/01/23 को अधोहस्ताक्षरकर्ता समिति के समक्ष प्रस्तुतीकरण के हेतु उपस्थित हुए । समिति द्वारा पूर्व में अनुमोदित जिला सर्वेक्षण रिपोर्ट एवं वर्तमान में प्रस्तुत जिला सर्वेक्षण रिपोर्ट तुलनात्मक शीट बनाने हेतु निर्देशित किया गया । निर्देशानुसार तुलनात्मक शीट तैयार कर समिति के समक्ष दिनांक 12/01/23 को समिति के समक्ष पुनः प्रस्तुत किया गया है । समिति द्वारा वर्तमान में प्रस्तुत जिला सर्वेक्षण रिपोर्ट में रिगार्क कॉलम को जोड़कर क्षेत्र में परिवर्तन एवं गहराई कैसे बढ़ी के संबंध में स्पष्टीकरण चाहा गया । उक्त संशोधन के साथ समिति के समक्ष दिनांक 13/01/23 को प्रस्तुत किया

गया । प्रस्तुतीकरण के दौरान समिति ने जिला सर्वेक्षण रिपोर्ट के सरेल कमांक—14, 32 एवं 33 में क्षेत्र में बढ़ोत्तरी कैसे हुई, इस संबंध में को—आर्डिनेट सहित स्पष्टीकरण चाहा गया ।

पूर्व में अनुमोदित जिला सर्वेक्षण रिपोर्ट में टंकण त्रृटि के कारण संशोधित जिला सर्वेक्षण रिपोर्ट के सरल क्रमांक-14 पर 6.00 टंकण पूर्व में अनुमोदित जिला सर्वेक्षण रिपोर्ट में लिपिकीय त्रृटि के कारण संशोधित जिला सर्वेक्षण रिपोर्ट के सरल क्रमांक-14 पर 6.00 टंकित हो गया था, जिसका वास्तविक क्षेत्र 23.81, सरल क्रमांक-32 पर 9.00 टंकित हो गया था, जिसका वास्तविक क्षेत्र 13.51 है एवं सरल क्रमांक 33 पर 4.67 टंकित था. जिसका वास्तविक क्षेत्र 7.00 है । पूर्व में अनुमोदित जिला सर्वेक्षण रिपोर्ट में लिपिकीय त्रुटि के कारण संशोधित जिला सर्वेक्षण रिपोर्ट के सरल क्रमांक-14 पर 6.00 ट्रिंकत हो गया था, जिसका वास्तविक क्षेत्र 23.81, सरल क्रमांक-32 पर 9.00 टंकित हो गया था. जिसका वास्तविक क्षेत्र 13.51 है एवं सरल क्रमांक 33 पर 4.67 टंकित था, जिसका वारतिवक क्षेत्र 7.00 है । पूर्व में अनुमोदित जिला सर्वेक्षण रिपोर्ट में लिपिकीय त्रुटि के कारण संशोधित जिला सर्वेक्षण रिपोर्ट के सरल क्रमांक-14 पर 6.00 टंकित हो गया था. जिसका वास्तविक क्षेत्र 23.81, सरल क्रमांक-32 पर 9.00 टंकित हो गया था, जिसका वास्तविक क्षेत्र 13.51 है एवं सरल कमांक 33 पर 4.67 टंकित था, जिसका वास्तविक क्षेत्र 7.00 है । कित हो गया था, जिसका वास्तविक क्षेत्र 23.81, सरल क्रमांक-32 पर 9.00 टंकित हो गया था, जिसका वास्तविक क्षेत्र 13.51 है एवं सरल क्रमांक 33 पर 4.67 टंकित था, जिसका वास्तविक क्षेत्र 7.00 है।

अतः भिण्ड जिले की संशोधित जिला सर्वेक्षण रिपोर्ट (DSR) अग्रिम कार्यवाही हेतु आपकी ओर अग्रेषित है।

संलग्नः उपरोक्तानुसार।

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प्रभारी खनि अधिकारी जिला भिण्ड (म.प्र.)

State Level Pironment Impact Assessment Authority, M.P. (EFCO) Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.) प्रति..

कलेक्टर महोदय जिला भिण्ड (म.प्र.)

विषय:— सन्दर्भ:— जिला सर्वेक्षण रिपोर्ट (DSR) के संबंध में प्रतिवेदन विषयक।

1. माननीय राष्ट्रीय हरित प्राधिकरण नई दिल्ली का आदेष 726/2018/ एवं 456/2018 दिनांक 04.11.2020।

2. संचालनालय, भौमिकी तथा खनिकर्म, म.प्र. भोपाल का पत्र क्रमांक-16039 दिनांक 25.11.2021 एवं पत्र क्रमांक 2981 दिनांक 03.03.2022।

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उपरोक्त विषयांतर्गत आज दिनांक 13/12/2022को कार्यालय संचालक, भौमिकी तथा खिनकर्म, मध्यप्रदेष भोपाल के पत्र क्रमांक 2981 दिनांक 03.03.2022 तथा कार्यालय कलेक्टर (खिनज शाखा) जिला भिण्ड का आदेश क्रमांक 5303 दिनांक 30.03.2022 के परिपालन. में गठित समिति के सदस्य उपस्थित हुये। जिला स्तर पर गठित समिति के सदस्यों द्वारा रेत खिनज हेतु जिला सर्वेद्यण रिपोर्ट तैयार की गई तथा उसे आमजन की दावा/आपित्त एवं सुझाव हेतु दिनांक 1611.2022 को 21 दिन की अवधि के लिये जिले के पोर्टल bhind, nic.in पर तथा भौतिक रूप से अवलोकन हेतु खिनज कार्यालय में रखी गई। प्राप्त दावा/आपित्त/सुझाव के आधार पर जिला सर्वेक्षण रिपोर्ट का पुनः परीक्षण कर आवश्यक संबोधन किया गया। इस प्रकार अंतिम रूप से तैयार जिला सर्वेक्षण रिपोर्ट (DSR) का समिति द्वारा अनुमोदन किया गया। प्रतिवेदन श्रीमान की ओर सादर प्रेषित है।

अनुविभागीय अधिकारी राजस्व जिला भिण्ड (म.प्र.) कार्यमालने वित्री जल संसाधन विभाग जिला भिण्ड (म.ग्र.) वनमण्डलाधिकारी सामान्य वनमण्डल जिला गिण्ड (म.प्र.)

प्रभारी अधिकारी (खनिज शाखा) जिला भिण्ड (म.प्र.)

प्रभारी अधिकारी राज्य प्रदूषण नियंत्रण मण्डल ग्वालियर (म.प्र.)

State Level Assessment Anthority, M.P.
(EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)

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GOVERNMENT OF MADHYA PRADESH

# DISTRICT SURVEY REPORT OF (RIVER SAND MINING) FOR BHIND DISTRICT MADHYA PRADESH



As per Notification No. S.O. 141(E) Appendix -x, Dated 15.01.2016 & S.O. 3611 (E)

New Delhi, the 25th July, 2018 of Ministry of

Environment Forest and Climate change, Government of India



State Level Environment Impact
Assessment A crity, M.P.
(EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)

## **PREFACE**

The purpose and structure of District Survey Report has been discretely discussed under Para 7(iii) (a) and Annexure (x) of the notification issued by Ministry of Environment, Forest and Climate Change, Government of India on 15th January 2016 to which the Central Government makes the amendments by Notification dated 25 July 2018. The District Survey Report (DSR) is to be prepared in every district for each minor mineral. It will guide systematic and scientific utilization of natural resources, so that present and future generation may be benefitted at large. The purpose of District Survey Report (DSR) is identification of areas of aggradations or deposition where mining can be allowed; and identification of areas of erosion and proximity to infrastructural structures and installations where mining should be prohibited.

The District Survey Report (DSR) is comprised of secondary data published and endorsedby various departments and websites about geology of the area, mineral wealth details, details of lease and mining activity in the district and revenue of mineral along with the primary data collected from ground survey. This report also contains details of climatic conditions, topography and terrain, land form, forest, rivers, soil, agriculture, road, transportation, irrigation etc. The DSR would also help to calculate the annual rate of replenishment wherever applicable and allow time for replenishment.

Further, In pursuance to the order of Hon'ble Supreme Court dated the 27th February, 2012 in I.A. No.12-13 of 2011 in Special Leave Petition (C) No.19628-19629 of 2009, in the matter of Deepak Kumar etc. Vs. State of Haryana and Others etc., prior environmental clearance has now become mandatory for mining of minor minerals irrespective of the area of mining lease; And also in view of the Hon'ble National Green Tribunal, order dated the 13th January, 2015 in the matter regarding sand mining hasdirected for making a policy on environmental clearance for mining leases in cluster for minor Minerals, The Ministry of Environment, Forest and Climate Change in consultationwith State governments has prepared Guidelines on Sustainable Sand Mining detailing the provisions on environmental clearance for cluster, creation of District Environment Impact Assessment Authority and proper monitoring of minor mineral mining using information technology and information technology enabled services to track the mined out material from source to destination.

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# DISCLAIMER

The data may vary due to flood, heavy rains and other natural calamities. Therefore it is recommended that SEIAA may take into consideration all its relevant aspects / data while senutinizing and recommending.

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## **ABBREVIATIONS**

A.D.	Anno Domini
NH	National Highway
SH	South Highway
MDH	Major District Highway
CR	Central Railway
EC	Environmental Clearance
BP	Boundary Pillar
mm	Milli- meter
IMD	Indian Metrological Department
RH	Relative Humidity
GMECI	Global Management And Engineering Consultants International
CM	Centi meter
GPS	Global Positioning System
RBM	River Bed Material
MIDC	Maharashtra Industrial Development Corporation
NHM	National Horticulture Mission
MT	Metric Tonnes
G2E	Good to Excellent
M2G	Medium to Good
В	Bad
B2V	Bad to very Bad
WL	Water Level
BGL	Below Ground Level
GW	Ground Water
LOI	Letter of Intent
IS	Indian Standard
GIB	Gangewadi New Great Indian Bustard Wildlife Sanctuary
TSP	Total Suspended Particulate matter
PM	Particular Matter
CPCB	Central Pollution Control Board
GoM	Government of Maharashtra
APTI	Air Pollution Tolerance Index

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# DISTRICT SURVEY REPORT FOR BHIND DISTRICT

# **FOR**

# SAND MINING

## Prepared under:

- a) Appendix -X of MoEF&CC, Gol Notification S.O. 141(E) dated 15.1.2016
- b) Sustainable Sand Mining GuidelineS
- c) MoEFCC, Gol Notification S.O. 3611(E) dated 25.07.2018
- d) Sand Mining Framework-2018
- e) Enforcement & Monitoring Guidelines for Sand Mining by MoEF&CC-2020

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# DISTRICT SURVEY REPORT FOR RIVER BED SAND MINING

As per the Gazette Notification dated 15th January, 2016 of Ministry of Environment, Forest and Climate Change a joint survey has been carried out by the District Environment Impact Assessment Authority (DEIAA) with the assistance of Irrigation Department, Drainage Department, Forest Department, Mining Department and Revenue Department in the district for preparation of the District Survey Report.

The Ministry of Environment Forest & Climate Change formulated the Sustainable Sand Management Guidelines 2016 which focuses on the Management of Sand Mining in the Country. But in the recent past, it has been observed that apart from management and systematic mining practices there is an urgent need to have a guideline for effective enforcement of regulatory provision and their monitoring.

Section 23 C of MMDR, Act 1957 empowered the State Government to make rules for preventing illegal mining, transportation and storage of minerals. But in the recent past, it has been observed that there was large number of illegal mining cases in the Country and in some cases, many of the officers lost their lives while executing their duties for curbing illegal mining incidence. The illegal and uncontrolled illegal mining leads to loss of revenue to the State and degradation of the environment.

India is developing at a faster pace and much technological advancement has already been taken place in the surveillance and remote monitoring in the field of mining. Thus, it is prudent to utilize the technological advancement for the effective monitoring of the mining activiti es particularly sand mining in the country.

Use of latest remote surveillance and IT services helps in effective monitoring of the sand mining activity in-country and also assist the government in controlling the illegal mining activity in the country. Thus, there is a need for an effective policy for monitoring of sand mining in the Country which can be enforced on the ground. These guidelines focus on the effective monitoring of the sand mining since from the identification of sand mineral sources to its dispatch and end-use by consumers and the general public. Further, the effective monitoring and enforcement require efforts from not only Government agencies but also by consumers and the general public.

It is the responsibility of every citizen of India to protect the environment and effective monitoring can only be possible when all the stakeholders' viz. Central Government, State Government, Leaseholders/Mine Owners, Distributors, Dealers, Transporters and Consumers (bulk & retail) will contribute towards sustainable mining, and comply with all the statutory provisions. It is felt necessary to identify the minimum requirements across all geographical regions to have a uniform protocol for monitoring and enforcement of regulatory provision prescribed for sustainable sand and gravel mining.

This document will serve as a guideline for collection of critical information for enforcement of the regulatory provision(s) and also highlights the essential infrastructural requirements necessary for effective monitoring for Sustainable Sand Mining.

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The document is prepared in consideration of various orders/directions issued by Hon'ble NGT in matters pertaining to illegal sand mining and also based on the reports submitted by expert committees and investigation teams.

Further, this document is supplemental to the existing "Sustainable Sand Mining Management Guideline-2016" (SSMG-2016), and these two guidelines viz. "Enforcement & Monitoring Guidelines for Sand Mining" (EMGSM-2020) and SSMG-2016 shall be read and implemented in sync with each other. In case, any ambiguity or variation between the provisions of both these document arises, the provision made in "Enforcement & Monitoring Guidelines for Sand Mining-2020 "shall prevail.

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## CHPATER-1 INTRODUCTION

The entire District lies in the Chambal valley. It forms the south western part of Ganga Valley. The Hills are only a few, small and isolated, mostly in the south west. It is only in the Bhind Tehsil that the rivers flow towards east. The topology of Bhind is the topography of the valley plains. The plains at present are closely cultivated fields devoid of trees, stubbed with shrubby growth only along the moist hollows, and thickly populated. The only divisions of topography are offered by the network of rivers with deep channels and steep bank. The shape of the district is semicircular, bulging towards the north east. The greatest length of Bhind district measures about 105 km south east to North West.

Location and Boundary: Bhind district is situated in the northern part of the Madhya Pradesh and covers an area of 4459 sq. km. It lies between N Latitude 25°55' and 26°45' and E longitude 78°12' and 79°05' and falling in Survey of India toposheet numbers 54 J and N. The District is bounded by Agra and Etawa districts of Uttar Pradesh in the north and Gwalior and Datia districts in the south. The eastern boundary is closed by the districts of Etawah Auraiya and Jalaun of Uttar Pradesh in the east, where as the western and north western boundaries are common with Morena district. The north western boundary is marked by the Asan and the Kunwari rivers, the northern and eastern boundaries being traversed by the Chambal and the Pahuj. Bhind district is divided into 8 tehsils and 6 blocks. It has 949 villages.

History: The district is named after the mythological Hindu saint Vibhandak Rishi, also called Bhindi Rishi. During the Mahabharata war it was believed to have been ruled by the Chedis, then the Yadus. The Chedis were one of the Mahajanapadas.

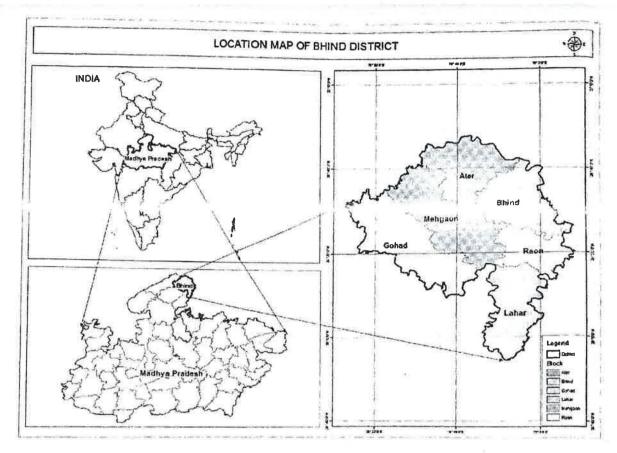
In the Mughal period the district fell under the Subedar of Agra. At the latter half of the 17th century a Jat family founded the town of Gohad and captured all the territory around it. He was, however, defeated by the Bhadawar rajputs. In 1736 and 1737, the Marathas defeated the Raja of Bhadawar and forced him to flee from the district. In 1805, the British, under a treaty with Gwalior, gave all the land comprising Bhind to the Scindias of Gwalior. In 1899, the Bhind-Gwalior light rail was built.

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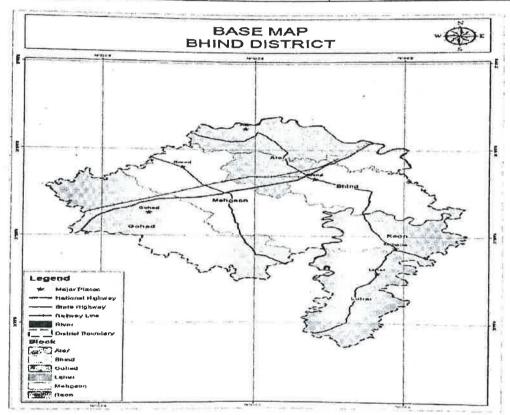


Location of bhind District,

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# Administrative

SUB-DIVISION	TEHSIL	BLOCKS
Bhind	Bhind	Janpad Panchayat Bhind
Ater	Atcr	Janpad Panchayat Ater
Lahar	Lahar	Janpad Panchayat Roun
Gohad	Mehgaon	Janpad Panchayat Lahar
Mehgoan	Mau	Janpad Panchayat Gohad
	Raon	Janpad Panchayat Mehgoan
	Mihona	
	Gohad	
	Gormi	



Map Showing Tehsils in Bhind District

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## Topography:

The topology of Bhind is the topography of the valley plains. The plains at present are closely cultivated fields devoid of trees, stubbed with shrubby growth only along the moist hollows, and thickly populated. The only divisions of topography are offered by the network of rivers with deep channels and steep bank.

## **Demography of Bhind District**

According to the 2011 census Bhind District had a population of 1,703,005, roughly equal to the nation of The Gambia or the US state of Nebraska. This gives it a ranking of 286th in India (out of a total of 640). The district has a population density of 382 inhabitants per square kilometer (990/sq mi). Its population growth rate over the decade 2001-2011 was 19.25% Bhind has a sex ratio of 837 females for every 1000 males, and a literacy rate of 64.29%. Scheduled Castes and Scheduled Tribes make up 22.01% and 0.36% of the population respectively.

## Basin/Sub-basin and Drainage:

Chambal, Asad, Kunawari, Besali, Sindh & Pahuj rivers drain the area. Ravines & Gullies have developed along the course of all rivers particularly along the flood plains. A very fine network of gullies and forming dendritic drainage network characterizes these. The depth of dissection by gullies is more intense along the river Chambal as compared to others.

#### Soil

The soil in the district generally falls under the broad group of deep alluvial soils. Color of the soil varies from brown, yellowish brown to dark gray brown. Texture of soils varies from sandy loam (below 20% clay), loam (20-30% clay), clay loam (30-40% clay) & clay (more than 40% clay). Clay loam soil found in some parts of Gohad & Mehgaon blocks and sandy loam soil is usually found in other blocks.

## **Climatic Conditions:**

The climate of Bhind district, characterised by a hot summer and general dryness except during the southwestern monsoon. A year may be divided into four seasons, cold season from December to February followed by the hot season from March to about middle of June. The period from Middle of June to September is the southwestern monsoon season. October & November forms the post monsoon or transition period. The nearest observatory is at Gwalior and all meteorological parameters except rainfall of this station are used for analysis.

The normal rainfall of the district is 754.4 mm. District receives maximum rainfall during south west monsoon period i.e. June to Septmber. About 91.9% of the annual rain fall predicates during the monsoon season. During the southwest monsoon season the relative humidity generally exceeds 83% (August month). The driest period is summer season, when relative humidity is less than 26%. May is the driest month of the year.

Normal maximum temperature during the month of May is 420C and minimum during January month is 7.10C. Normal mean maximum & minimum temperature is 32.50C & 21.80C respectively. Wind velocity is higher during the pre monsoon period as compared to the post monsoon period. The maximum wind velocity is 11.3 km/h during the month of June and minimum is 3.1 km/h during the month of November. Average normal annual wind velocity is 6.4 km/h.

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#### Connectivity:

#### By Air

Bhind do not have any airport. The nearest Airport is in Gwalier, which is around 75 KMs from Bhind.

## By Rail

The railway line connects Bhind with Gwalior. This line was constructed by the crstwhile Gwalior State and opened on 3rd December 1899. The Gwalior light Railway (later known as Scindhia State railway) was worked by the Great Indian Peninsula Railway Company upto 30th June 1913, after which was taken by the Gwalior Durbar. The line was integrated into Central Railway on 5th November 1951.

#### By Road

Road transport is the main mode of transportation in Bhind.Main link Road of Bhind is Etawah Gwalior State Highways which connects with MP and UP states. it is 80 Kms from Gwalior and 40 Kms from Etawah.

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## **CHPATER-2**

# OVERVIEW OF MINING ACTIVITY IN THE DISTRICT

#### General Information:

No major minerals are found in the district. Mostly minor minerals are found in the district which includes stone, Gitti, Murrum and sand. Stone is mostly mimed in the district and illegal mining has been a critical problem in the district.

## Approach to Sand Mining:

River sand mining is a common practice as habitation concentrates along the rivers and the mining locations are preferred near the markets or along the transportation route, for reducing the transportation cost. River sand mining can damage private and public properties as well as aquatic habitats. Excessive removal of sand may significantly distort the natural equilibrium of a stream channel.

Mainly three types of minor minerals constituents such as sand, stone and Bajri are required for any type of construction apart from other material like cement and steel. In earlier times, the houses/buildings were constructed in form of small dwellings with walls made up of mud plaster, stone and interlocking provided with wooden frames and there were negligible commercial as well as developmental activities resulting in less demand of building material. However with the passage of time, new vistas of developmental activities were started. The quantity of minor minerals consumption in a particular area is a thermometer to assess the development of the area. Thus with the pace of development activities, the consumption of

minor minerals also increased. As such the demand of minor minerals in the district has started an increasing trend. In order to meet the requirement of raw material for construction, the extraction of sand is being carried out exclusively from the river beds.

# Main Objectives of Sustainable Sand Mining:

- To ensure that sand and gravel mining is done in environmentally sustainable and socially responsible manner.
- To ensure availability of adequate quantity of aggregate in sustainable manner.
- To improve the effectiveness of monitoring of mining and transportation of mined out material.
- Ensure conservation of the river equilibrium and its natural environment by protection and restoration of the ecological system.
- Avoid aggradations at the downstream reach especially those with hydraulic structures such
  as jetties, water intakes etc.
- Ensure that the rivers are protected from bank and bed erosion beyond its stable profile. No
  obstruction to the river flow, water transport and restoring the riparian rights and in
  stream habitats.
- Avoid pollution of river water leading to water quality deterioration.
- To prevent depletion of ground water reserves due to excessive draining out of ground water.
- To prevent ground water pollution by prohibiting sand mining on fissures where it works as filter prior to ground water recharge.
- To maintain the river equilibrium with the application of sediment transport principles in determining the locations, period and quantity to be extracted.
- Streamlining and simplifying the process for grant of environmental clearance (EC) forsustainable

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# CHPATER -3 GENERAL PROFILE OF THE DISTRICT

## District at a Glance

This district of Madhya Pradesh is geographically known for its Ravines, Fertile land and dense Forests. Bhind was one among the 16 districts of United State of Madhya Bharat which was constituted on 28th May 1948. Subsequently, as a result of reorganization of States in November 1956, district Bhind became part of new Madhya Pradesh. Formerly there were 4 Tehsils viz; Bhind ,Mehgoan, Gohad and Lahar but at Present there are 8 Tehsils viz; Bhind, Ater, Mehgaen,Gohad,Mihone, Lahar,Gormi and Raun. As per the History, the District is named after the Bhindi Rishi (Sage Bhindi). It is well known fact that the region has been subjected to depredations of dacoits, robbers or thugs since ages. The majestic Chambal, surrounded yawning chasms and gaping beehads (ravines) provide an ideal setting to this murky banditry in a big way. Even during Mughal times the powerful administration failed to curb these menace. As many as 216 dacoits were shot dead and 697 arrested in Bhind district alone from 1959 to 1963.

With 14,28,559 persons living on an area of 4459 sq km, the district ranks 20th in population ranking in the State having about 2% of the state's population (As per 2001 census). The Sex ratio of the district according to 2001 census is 829.Rural sex ratio is 825 and Urban is 843. The sex ratio is the number of females per 1000 males.

The soil of Bhind is very fertile and is well drained by the Chambal and Sind rivers and the tributary streams of the Kunwari and Puhuj.

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General Profile of the District

1.Geographical	It lies between N Latitude 25°55' and 26°45' and E longitude		
Position	78°12' and 79°05' and falling in Survey of India topo sheet		
	numbers 54 J and		
	N.		
2. Area and	I. Geographical Area (SqKm)		
Population	Total Area (Sq.Km): 4,459 Km <sup>2</sup>		
	II. Census 2011		
	I. Population		
	a. Total Population, 1,705,005		
	b. Male Population: 926,843		
	c. Female Population: 776,162		
	II. Literates		
	a. Total Literates: 1,094,917		
	b. Male: 676,513		
	c. Female: 418,404		
Œ	III. Main Workers (Census 2011)		
	a. Total Workers: 520,768		
	b. Male Workers: 455,775		
	c. Female Workers: 64,993		
	d. Cultivators: 231,185		
	e. Agricultural Laborer's: 158,266		
	f. Other Workers: 121,479		
	V. Languages Spoken in the District		
	Hindi is a common language spoken by the inhabitant of the cit		

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3. Temperature	Mean- Maximum temperature: 32.5°C Mean- Minimum temperature: 21.8°C
4. Rainfall (In mm)	Normal - South West Monsoon:612.7 mm Annual Rainfall: 754.4mm
5.Agriculture	Total Cultivated Area (Ha):344.8 Net Area Sown (Ha): 320.8 Area Sown more than once (Ha): 24.0
6.Rivers, etc.	Chambal, Asad, Kunawari, Besali, Sindh & Pahuj rivers drain the area.
7. Revenue Administrative Divisions	Revenue Divisions: Revenue Blocks: 6 Revenue Tehsils: 8
8. Local Bodies	Municipalities: 2

## Climate Conditions

The climate of Bhind district, characterized by a hot summer and general dryness except during the southwestern monsoon. A year may be divided into four seasons, cold season from December to February followed by the hot season from March to about middle of June.

The period from Middle of June to September is the southwestern monsoon season. October & November forms the post monsoon or transition period. During the southwest monsoon season the relative humidity generally exceeds 83% (August month). The driest period is summer season when relative humidity is less than 26%. May is the driest month of the year.

Normal maximum temperature during the month of May is 42°C and minimum during January month is 7.1°C. Normal mean maximum & minimum temperature is 32.5°C & 21.8°C respectively. Wind velocity is higher during the pre-monsoon period as compared to the post monsoon period.

The maximum wind velocity is 11.3 km/h during the month of June and minimum is 3.1 km/h during the month of November. Average normal annual wind velocity is 6.4 km/h Forests. The geography of the district is characterized by uneven ravines, plain fertile fields and scanty forests. The total area of the district is 4,459 km2 (1,722 sq mi).

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# Demographic features of the district

Sr no	ltems	Statitics
I	Total Population	17.03 Lakhs
2	Male Population	926843
3	Femal Population	776162
4	Sex Ration	837
5	Population Density	382 per Sq Km
6	Literacy	75.26%

### Irrigation

As per the district statistical book 2015, the total area of Bhind district is 4459 sq.kms. Out of which forest area is 8 9 sq.kms.. The district falls in Lower Chambal Sub Basin of Yamuna Basin. Rivers of Chambal, Asad, Kunawari, Besali, Sindh & Pahuj drains the entire area.

The area irrigated by tube wells is 739.94 sq kms, by open-wells 542.47 sq.kms, by canals 759.94 sq.kms and by ponds 12.70 sq.kms. The total area under irrigation from various sources is 2062.01sq.kms. About 62 % area is irrigated by Ground water of total irrigated area. The principal crops grown are Wheat, Rice, Maize, Jowar and others. However the major part of the area fall in the Ganga basin.

The drainage of the district is towards north and north east. The five rivers, from west to east are the Bina, the Dhasan, the Bewas, the Sonar and the Bamner. The Bina takes its course upto several Kilometer to the south of the district and enters it near village Mahura. After flowing through Rahatgarh, the river takes a north easterly course and at places forms the boundary with Vidisha district.

#### Connectivity

#### By Air

Bhind do not have any airport. The nearest Airport is in Gwalior, which is around 75 KMs from Bhind.

#### By Rail

The railway line connects Bhind with Gwalior. This line was constructed by the erstwhile Gwalior State and opened on 3rd December 1899. The Gwalior light Railway (later known as Scindhia State railway) was worked by the Great Indian Peninsula Railway Company upto 30th June 1913, after which was taken by the Gwalior Durbar. The line was integrated into Central Railway on 5th November 1951.

#### By Road

Road transport is the main mode of transportation in Bhind. Main link Road of Bhind is Etawah Gwalior State Highways which connects with MP and UP states. it is 80 Kms from Gwalior and 40 Kms from Etawah.

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Sindh   Mehgaon   Barethiraj   Assa   Assa							
Name S. of Tehsil Mines Khasrr Bed Bed Mehgaon Ajeeta 136  2 Sindh Mehgaon Barethiraj 444  3 Sindh Mehgaon Barethiraj 444			Coordinate	A 26°21'42.12"N 78°51'30.76"E B 26°21'38.87"N 78°51'27.99"E C 26°21'42.69"N 78°51'22.03"E D 26°21'44.03"N78°51'19.49"E E 26°21'52.48"N 78°51'9.74"E F 26°21'55.26"N 78°51'9.74"E	A 26°18'39.28"N78°50'24.93"E B 26°18'36.04"N 78°50'26.18"E C 26°18'32.23"N 78°50'16.08"E D 26°18'34.88"N 78°50'14.88"E	A 26°20'4.56"N 78°51'17.30"E B 26°20'2.79"N 78°51'16.99"E C 26°20'2.67"N 78°51'24.05"E D 26°20'3.84"N 78°51'32.53"E E 26°20'7.21"N 78°51'32.19"E F 26°20'5.29"N 78°51'32.19"E G26°20'4.60"N 78°51'22.89"E	A 26°10'54.59"N78°48'58.87"E B 26°10'56.53"N 78°48'57.81"E C 26°10'59.49"N 78°49'5.69"E D 26°11'0.26"N 78°49'10.17"E E 26°10'59.72"N 78°49'27.95"E G 26°10'54.52"N 78°49'17.96"E H 26°10'56.64"N 78°49'17.96"E I 26°10'56.34"N 78°49'17.96"E
Name S. of Tehsil Mines Khasrr Bed Bed Mehgaon Ajeeta 136  2 Sindh Mehgaon Barethiraj 444  3 Sindh Mehgaon Barethiraj 444		HER DETAILS	Mineable mineral potential (Ia MT (60 % of total mineral	36800	15360	25200	91000
Name S. of Tehsil Mines Khasrr Bed Bed Mehgaon Ajeeta 136  2 Sindh Mehgaon Barethiraj 444  3 Sindh Mehgaon Barethiraj 444		AREA AND OT	Mineable mineral potential (In M3 (60 % of total mineral potential)	62000	32400	18000	65000
Name S. of Tehsil Mines Khasrr Bed Bed Mehgaon Ajeeta 136  2 Sindh Mehgaon Barethiraj 444  3 Sindh Mehgaon Barethiraj 444		LOCATION,	Total Mineable mineral potential	103333	54000	30000	108333
Name S. of Tehsil Mines Khasrr Bed Sindh Mehgaon Barethiraj 44 Sindh Iahar Girwasa 6,210.	VPTER- 3	Sand Mir	Depth	1.15	1.80	1.00	1.08
Name S. of Tehsil Mines Khasrr Bed Sindh Mehgaon Barethiraj 44 Sindh Iahar Girwasa 6,210.	3	List of	width	100	86	101	125
Name S. of Tehsil Mines Khasrr Bed Sindh Mehgaon Barethiraj 44 Sindh Iahar Girwasa 6,210.	THE NEW TOTAL		length	006	307	299	800
S. of Tehsil Mines Khasrr Bed Sindh Mehgaon Barethiraj 444  Sindh Mehgaon Barethiraj 444  Sindh Mehgaon Barethiraj 444	NGIEA		Area	0	м	က	10
S. of Tehsil Mines No River Tehsil Mame Bed Mehgaon Ajeeta  2 Sindh Mehgaon Barethir  3 Sindh Mehgaon Barethir	F I IST OF MIN		Khasra No.	1360	883	445	6,210,1325
S. of River Bed Bed Sindh  Sindh  Sindh  Sindh  Sindh  Sindh	HE		Mines	Ajeeta	Bacchreta	Barethiraj	Girwasa Naveen
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1 1 1 10 15			Name of River Bed	Sindh	Sindh	Sindh	Sindh
Add out			S. S.			m	4 8 8

State Level Environment Impact
Assessment Authority, M.P.
(EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)

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	A 26°10'37.94"N78°48'51.99"E B 26°10'32.56"N 78°48'51.27"E C 26°10'32.78"N 78°48'47.49"E D 26°10'38.15"N 78°48'47.49"E	A 26°16'5.46"N 78°49'45.24"E B 26°16'5.80"N 78°49'40.37"E C 26°16'1.02"N 78°49'39.91"E D 26°15'54.7"N 78°49'44,49"E F 26°16'1.29"N 78°49'44,49"E	A 26°20'12.28"N 78°51'50.50"E B 26°20'13.86"N 78°51'48.89"E C 26°20'17.82"N78°51'53.41"E D 26°20'37.98"N 78°52'2.04"E E 26°20'37.47"N 78°52'2.10"E F 26°20'37.37"N 78°52'3.38"E H 26°20'31.90"N 78°52'3.38"E I 26°20'15.76"N 78°51'54,44"E	A 26°10'26.68"N78°48'34.06"E B 26°10'23.81"N 78°48'36.22"E C 26°10'28.13"N 78°48'42.11"E D 26°10'30.38"N78°48'40.24"E	A 26°11'35.39"N78°50'51.13"E B 26°11'35.53"N 78°50'44.23"E C 26°11'38.22"N 78°50'44.00"E D 26°11'42.32"N 78°50'42.43"E E 26°11'43.82"N 78°50'45.67"E F 26°11'36.82"N 78°50'51.51"E			
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	Girwasa Purani	Gurira	Kacchargh at	Lagdua	Lilwari-1			
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State Level Environment Impact
Assessment Authority, M.P.
(EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.) ocumed with compre

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10   Sindh   Mihana   Matiyawal   452   1371   123   123   123   13500   81000   113400   136800   1369110.377785903.248   269113.077785903.38   12   2   2   2   2   2   2   2   2	***				
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Sindh         Lahar         Lilwari-2         258,259         17.1         998         172         1.09         186667           Sindh         Mihona         Matiyawal         452         15.2         1237         123         0.89         135000           Sindh         Mihona         Matiyawal         514         17.6         1161         152         0.89         135000           Sindh         Mehgaon         Sanduri         665,666,66         3.19         351         91         1.50         47850	)	156800	113400	130900	40194
Sindh         Lahar         Lilwari-2         258,259         17,1         998         172         1.09           Sindh         Mihona         Matiyawal         452         15,2         1237         123         0.89           Sindh         Mihona         Matiyawal         514         17,6         1161         152         0.88           Sindh         Mehgaon         Sanduri         665,666,66         3.19         351         91         1.50		112000	81000	93500	28710
Sindh         Lahar         Lilwari-2         258,259         17.1         998         172           Sindh         Mihona         Matiyawal         452         15.2         1237         123           Sindh         Mihona         Matiyawal         514         17.6         1161         152           Sindh         Mehgaon         Sanduri         665,666,666         3.19         351         91	ř.	185667	135000	155833	47850
Sindh         Lahar         Lilwari-2         258,259         17.1         998           Sindh         Mihona         Matiyawal         452         15.2         1237           Sindh         Mihona         Matiyawal         514         17.6         1161           Sindh         Mehgaon         Sanduri         665,666,66         3.19         351		1.09	0.89	0.88	1.50
Sindh         Lahar         Lilwari-2         258,259         17.1           Sindh         Mihona         Matiyawal         452         15.2           Sindh         Mihona         Matiyawal         514         5           Sindh         Mehgaon         Sanduri         665,666,66         3.19	•	172	123	152	91
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Sindh Lahar Sindh Mihona		258,259	452	514	665,666,66 8
Sindh Sindh Sindh	.,	Lilwari-2	Matiyawal i-2	Matiyawal 1-3	Sanduri
	!	Lahar	Mihona	Mihona	Mehgaon
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State Level Environment Impact
Assessment Authority, M.P.
(EPCO)

Paryavaran Parisar > E-5, Arera Colony, Bhopal (M.P.)

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	A 26°13'8.38"N 78°50'3.29"E B 26°13'4,42"N 78°50'6.54"E C 26°12'52.65"N 78°50'12.79"E D 26°12'43.70"N 78°50'15.08"E E 26°12'42.47"N 78°50'2.47"E F 26°12'46.75"N 78°50'0.35"E G 26°12'49.04"N 78°49'57.60"E	D 26°12'49.54"N 78°49'55.83"E A 26°12'43.70"N 78°50'15.08"E B 26°12'37.72"N 78°50'14.51"E C 26°12'37.77"N 78°50'12.33"E D 26°12'32.59"N 78°50'12.91"E C 26°12'32.97"N 78°50'4.40"E D 26°12'42.47"N 78°50'2.47"E	A 26°1712.28"N78°49'33.12"E B 26°176.03"N 78°49'33.99"E C 26°17'5.80"N 78°49'34.44"E D 26°17'1.51"N 78°49'34.65"E E 26°17'1.37"N 78°49'35.19"E F 26°17'0.31"N 78°49'35.00"E G 26°16'31.72"N 78°49'41.30"E H 26°16'28.86"N 78°49'41.13"E I 26°16'21.86"N 78°49'41.13"E J 26°16'21.86"N 78°49'42.79"E	A 26°18'24,32"N 78°49'26,69"E A 26°18'27,49"N 78°49'44,43"E C 26°18'28,89"N 78°49'58,42"E D 26°18'25,46"N78°49'58,79"E	A 26°19'19.63"N 78°51'38.46"E B 26°19'21.64"N 78°51'41.16"E C 26°19'11.24"N 78°51'50.60"E D 26°19'9,35"N 78°51'47,82"E		
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-	182860	65200	46924	52200	53500		
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_	1,28	1.21	0.31	2.18	2.23		
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State Level Environment Impact
Assessment Authority, M.P.

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(EPCO)
Paryavaran Parisar
F.-5, Arera Colony, Bhopal (M.P.)

A 26°25'43.36"N78°49'25.01"E B 26°25'44.62"N78°49'18.35"E C 26°25'46.34"N 78°49'21.00"E D 26°25'46.98"N 78°49'25.53"E E 26°25'50.32"N 78°49'32.33"E G 26°25'52.27"N 78°49'39.90"E H 26°25'51.13"N 78°49'42.81"E I 26°25'51.13"N 78°49'45.82"E K 26°25'51.13"N 78°49'50.99"E D 26°25'46.47"N 78°49'50.99"E N 26°25'46.47"N 78°49'50.17"E O 26°25'44.67"N 78°49'51.17"E S 26°25'44.67"N 78°49'51.17"E S 26°25'44.67"N 78°49'55.11"E R 26°25'44.67"N 78°49'55.11"E S 26°25'44.67"N 78°49'55.11"E	U 26°25'47.35"N78°49'28.80"E
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State Level Environment Impact
Assessment Authority, M.P.
(EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)

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	A 26°15'24.97"N 78°49'3.74"E B 26°15'23.68"N 78°48'59.79"E C 26°15'23.34"N 78°48'55.63"E D 26°15'22.34"N 78°48'55.60"E E 26°15'22.71"N 78°48'54.60"E F 26°15'22.67"N 78°48'54.97"E G 26°15'21.26"N 78°48'54.22"E I 26°15'21.26"N 78°48'54.23"E I 26°15'21.12"N 78°48'48.81"E L 26°15'21.12"N 78°48'49.10"E N 26°15'19.84"N 78°48'49.10"E N 26°15'19.31"N 78°48'49.10"E O 26°15'11.44"N 78°48'49.14"E C 26°15'11.44"N 78°48'49.14"E C 26°15'11.44"N 78°48'49.14"E C 26°15'11.44"N 78°48'49.11"E C 26°15'11.44"N 78°48'49.11"E C 26°15'11.44"N 78°48'49.11"E C 26°15'11.64"N 78°48'41.14"E C 26°15'11.64"N 78°48'41.15"E C 26°15'11.64"N 78°48'41.16"E C 26°15	X 26°15'12,70"N 78°494,13"E  A 26°15'11.91"N78°48'44.06"E  B 26°15'7.02"N 78°48'37.37"E  C 26°15'7.02"N 78°48'37.37"E  D 26°14'59.85"N 78°48'32.50"E  F 26°14'56.78"N 78°48'32.32"E  G 26°15'6.99"N 78°48'36.94"E  H 26°15'6.82"N 78°48'36.94"E  1 26°15'15.39"N 78°48'39.91"E  J 26°15'15.39"N 78°48'42.76"E  K 26°15'13.36"N 78°48'42.76"E
	59940	46234
æ	42814	33024
-	71357	55040
	0.39 9.39	0.47
-	186	196
	<del></del>	596
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Paris	1,2,12,45,67	245,246,25
,5	Dhaur-1	Dhaur-2
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State Level Environment Impact
Assessment Authority, M.P.
(EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.) Earned with Compount

ji.	A 26°14'58.93"N 78°48'36.94"E B 26°14'58.93"N 78°48'31.70"E C 26°14'59.54"N 78°48'30.63"E D 26°14'59.17"N 78°48'20.63"E E 26°14'59.36"N 78°48'20.66"E F 26°14'55.90"N 78°48'20.06"E H 26°14'52.44"N 78°48'20.06"E H 26°14'52.44"N 78°48'22.14"E I 26°14'53.50"N 78°48'22.96"E K 26°14'49.13"N 78°48'22.96"E E 26°14'49.13"N 78°48'22.96"E C 26°14'47.50"N 78°48'20.49"E N 26°14'47.50"N 78°48'20.55"E O 26°14'53.66"N 78°48'20.64"E P 26°14'55.28"N 78°48'20.64"E R 26°14'55.28"N 78°48'20.64"E	A 26°23'35.67"N78°50'25.33"E B 26°23'36.92"N78°50'25.29"E C 26°23'44.21"N 78°50'33.31"E D 26°23'57.35"N78°50'36.46"E E 26°23'48.10"N 78°50'39.31"E F 26°23'39.33"N 78°50'37.22"E	A 26°22'12.52"N 78°50'3.39"E B 26°22'9.73"N 78°50'3.75"E C 26°22'10.32"N 78°50'17.17"E D 26°22'6.37"N 78°50'39.53"E E 26°22'0.12"N 78°50'39.48"E F 26°22'3.72"N 78°50'39.48"E H 26°22'11.15"N 78°50'36.76"E	A 26°19'46.41"N 78°50'44.61"E B 26°19'41.09"N 78°50'43.8.78"E C 26°19'37.38"N 78°50'49.34"B D 26°19'41.81"N 78°50'49.34"B E 26°19'44.93"N 78°50'49.39"E F 26°19'45.34"N 78°50'45.39"E
ei 	54600	99400	177100	65184
,	39000	71000	126500	46560
-	92000	118333	210833	77600
-	0.41	1.18	1.11	1.94
-	175	112	68	82
	905	893	2140	488
9=	15,8 5	10	19	4
	247,200	1420	546,850	1331
_	Dhaur-3	Goram 1420	Kharoli	Kheriyasi ndh
_	Mihona	Mehgaon	Mehgaon	Mehgaon
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State Level Environment Impact
Assessment Authority, M.P.
(EPCO)

(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)



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		A 26°13'7.84"N 78°49'37,72"E B 26°13'4.97"N 78°49'41.64"E C 26°12'58.13"N 78°49'39,33"E D 26°13'0.96"N 78°40'35,71"E	A 26°18'18.02"N78°49'34.77"E B 26°18'16.94"N 78°49'28.87"E C 26°18'13.13"N 78°49'19.66"E E 26°18'1.20"N 78°49'13.45"E F 26°18'1.460"N 78°49'13.45"E G 26°18'14.60"N 78°49'13.45"E H 26°18'20.62"N 78°49'15.64"E	A 26°18'1.82"N 78°49'13.41"E B 26°18'2.24"N 78°49'8.82"E C 26°18'1.59"N 78°49'8.39"E D 26°18'2.76"N 78°49'7.01"E E 26°18'2.15"N 78°49'7.01"E F 26°18'5.15"N 78°49'7.08"E G 26°18'4.58"N 78°49'9.08"E H 26°18'6.70"N 78°49'9.12"E K 26°18'8.77"N 78°49'9.12"E K 26°18'8.77"N 78°49'9.12"E M 26°18'7.98"N 78°49'9.47"E M 26°18'7.33"N 78°49'9.373"E	A 26°19′2.904°N 78°51′47,416°E B 26°18′48.908°N78°51′42,679°E C 26°18′48.610°N78°51′35.188°E D 26°18′45.769°N78°51′24,416°E E 26°18′45.769°N78°51′25.161°E F 26°18′45.642°N78°51′37.200°E G 26°18′51.300°N78°51′36,497°E H 26°19′2.311°N78°51′3095°E
	•	60760	77014	20400	163800
(	1	43400	55010	36000	117000
(	;	72333	91683	90009	195000
(	,	2.41	0.62	2.02	1.50
(	1 _	131	25	85	138
C		229	1751	351	942
(	-	м	14.7	2.97	13
<u>(</u>	-	770	66,75	545	284,515
C	87 - {/,	Madori	Matiyawal i-1	Bacchroli	Baretikhu rd-1
C		lahar	Mihona	Mehgaon	Mehgaon
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/ 100		26	27	78	29

State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar

E-5, Arera Colony, Bhopal (M.P.)

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105730 63438 88813 C26°2449.91"N 78°50'7.49"E C26°2449.91"N 78°50'7.49"E C26°2449.24"N 8°50'15.30"E E 26°2449.24"N 8°50'18.44"E F 26°2443.53"N 8°50'18.44"E	A 26°11'18.59"N78°50'48.03"E B 26°11'20.22"N 78°50'43.62"E C 26°11'34.99"N 78°50'47.27"E D 26°11'34.86"N78°50'52.12"E	A 26°18'38.92"N78°51'23.63"E B 26°18'43.19"N 78°51'23.26"E C 26°18'44.55"N 78°51'35.20"E D 26°18'52.27"N 78°51'36.14"E E 26°19'0.55"N 78°51'52.0"E G 26°19'2.69"N 78°51'52.0"E I 26°18'56.39"N 78°51'54.01"E I 26°18'40.18"N 78°51'54.01"E J 26°18'40.18"N 78°51'54.01"E J 26°18'40.18"N 78°51'54.07"E	A 26°26'5.95"N 78°52'8.54"E B 26°26'5.93"N 78°52'9.59"E C 26°26'5.92"N 78°52'17,78"E D 26°26'13.93"N 78°52'20.00"E E 26°26'13.93"N 78°52'13.1"E F 26°26'13.30"N 78°52'13.1"E I 26°26'13.30"N 78°52'15.14"E I 26°26'11.58"N 78°52'15.14"E I 26°26'11.58"N 78°52'15.14"E I 26°26'12.28"N 78°52'15.14"E I 26°26'12.28"N 78°52'15.14"E I 26°26'12.28"N 78°52'15.14"E I 26°26'12.28"N 78°52'15.14"E I
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8.94 853	5.975 906	13.51 1001 1	7 715 98
3349, 3355, 3402, 3403, 3405	1, 20, 15	1208	1212
Bharolikhurd	Chandrawali	Dubka	Musawali
Mehgaon	lahar	Mehgaon	Mchgaon
Sindh	Sindh	Sindh	Sindh
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State Level Environment Impact

Assessment Authority, M.P. (EPCO)

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	A 26°22'4.88"N 78°49'34.04"E B 26°22'0.60"N 78°49'32.79"E C 26°22'8.33"N 78°49'17.46"E D 26°22'10.43"'N 8°49'21.10"E		A 26°23'37.25"N78°50'25.43"E B 26°23'47,46"N78°50'28.54"E C 26°23'58.03"N78°50'20.29"E D 26°24'0.86"N 78°50'22.46"E E 26°23'54,59"N78°50'32.81"E G 26°23'47.31"N78°50'32.81"E	A 26°13'55.21"N78°47'52.20"E B 26°13'54.22"N78°47'55.50"E C 26°13'51.24"N78°47'56.83"E D 26°13'52.61"N78°47'50.81"E	A 26°25'41,44"N78°56'3.96"E B 26°25'42.69"N78°56'2.77"E C 26°25'53.96"N78°56'14,29"E D 26°25'51,58"N78°56'15,98"E	A 26°22'23.35"N78°49'19.10"E B 26°22'22.49"N78°49'14.30"E C 26°22'5.04"N 78°49'38.47"E D 26°22'10.43"N78°49'39.13"	A 26°25'53.36"N 78°51'10.58"E B 26°25'52.65"N 78°51'49.31"E C 26°25'55,29"N 78°51'49.31"E D 26°25'55.90"N 78°51'16.21"E Z6°25'38.33"N 78°51'16.21"E F
	42000	37800	65352	42000	36400	112056	60200
Ĉ	30000	27000	46680	30000	26000	800/10	43000
	20000	45000	77800	50000	43333	133400	71667
3	1.00	1.71	1.00	0.63	1.08	1.00	1.79
6	61	822	601	107	82	141	53
	819	321	714	746	25 00 00	946	755
446		2.63	7.78	7.98	4.00	13.34	4.00
0	801	125, 127, 91	1418	61	2787	274	2
00000000000	Sadha	Bhapar	Goram 1472	Sijroli	Dochra	Kaundh Madeyan - 2	Mahayar 2
0	Mehgaon	lahar	Mehgaon	lahar	Bhind	Roun	Roun
0	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh
()	34	35	36	37	38	39	40

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State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

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A 26°24'31.65"N 79° 0'38.13"E B 26°24'34.16"N 79° 0'37.20"E C 26°24'36.44"N 79° 0'52.41"E D 26°24'36.32"N 79° 0'52.41"E E 26°24'30.90"N 79° 1'2.44"E F 26°24'30.90"N 79° 1'0.69"E H 26°24'31.51"N 79° 1'0.63"E I 26°24'31.58"N 79° 0'59.37"E J 26°24'31.89"N 79° 0'59.37"E	A 26°23'33.69"N78°50'34.51"E B 26°23'37.02"N78°50'31.78"E C 26°23'55.12"N 78°50'28.63"E D 26°24'3.33"N 78°50'12.35"E E 26°24'1.42"N 78°49'50.24"E F 26°24'3.53"N 78°49'50.24"E G 26°24'8.19"N 78°50'13.03"E H 26°23'49.79"N78°50'41.64"E	A 26°24'7.49"N78°49'19.29"E: B 26°23'58.06"N78°49'8.50"E C 26°23'47.28"N78°49'11.10"E D 26°23'59.72"N78°49'39.12"E E 26°23'59.70"N 78°49'26.76"E F 26°24'2,50"N 78°49'26.76"E
64400	95900	179200
46000	68500	128000
76667	114167	213333
1.53	0.60	0.87
29	98	385
746	2209	634
2.00	19.0	24.4
22	534	410
Padhora-1	Niwsai 534-2	Nivsai Ridiya-2
Roun	Roun	Roun
Sindh Roun	Sindh	Sindh

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State Level Environment Impact
Assessment Authority, M.P.

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.) pranned with Compran

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) )	A 26°23'2.75"N 78°49'34.27"E B 26°22'49.58"N 78°49'31.04"E 26°22'249.58"N 78°49'18.43"E D 26°22'28.67"N 78°49'13.79"E E 26°22'22.45"N 78°49'14.27"E F 26°22'23.42"N 78°49'19.47"E G 26°22'27.36"N 78°49'19.47"E H 26°22'47.25"N 78°49'21.87"E 1 26°22'54.72"N 78°49'26.99"E J 26°22'55.03"N 78°49'26.99"E L 26°22'55.03"N 78°49'28.81"E L 26°22'57.36"N 78°49'28.81"E L	A 26°247.32"N 78°49'19.24"E B 26°24'8.19"N 78°49'14.48"E 26°23'58.39"N 78°49'4.01"E 26°23'51.89"N 78°49'4.01"E 26°23'45.39"N 78°49'9.12"E 78°49'9.12"E 78°49'20.89"E G 26°24'1.42"N 78°49'30.35"E H 26°24'3.53"N 78°49'30.24"E I 26°23'58.52"N 78°49'35.96"E J 26°23'47.31"N 78°49'36"E	A 26°23'57.85"N78°49'8.56"E B 26°23'55.27"N78°49'6.86"E C 26°23'50.67"N78°49'7.18"E D 26°23'48.65"N 78°49'8.64"E E 26°23'47.30"N78°40'11 07"F	A 26°22'10.40"N78°49'39.15"E B 26°22'6.60"N 78°49'38.69"E C 26°22'16.72"N 78°50'15.82"E D 26°22'20.52"N78°50'13.74"E
	135408	167636	25900	93240
_	96720	119740	18500	00999
744	161200	199567	30833	111000
92	0.96	1.00	1,54	0.80
	136	92	65	131
	1230	2159	308	1064
	16.7	19.8 6	2.00	13.9
	H	534	410	200
	Kaundh Madeyan - 1	Niwsai 534-1	Nivsai Ridiya-3	Kaundh Madryan - 3
	Roun	Roun	Roun	Roun
	Sindh	Sindh	Sindh	Sindh
	44	45	46	47

State Level Environment Impact
Assessment Authority, M.P.
(EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)



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1	A 26°25'6.33"N78°54'24.45"E B 26°25'8.43"N78°54'23.67"E 26°25'11.38"N78°54'32.69"E D 26°25'9.87"N 78°54'33.63"E	A 26°25'19.91"N78°57'43.02"E B 26°25'20.86"N 78°57'44.33"E C 26°25'10.64"N 78°58'0.18"E E 26°25'10.22"N 78°58'15.87"E F 26°25'10.22"N 78°58'15.87"E F 26°25'10.22"N 78°58'46.64"E I 26°24'44.75"N 78°58'44.92"E J 26°24'44.75"N 78°58'44.92"E J 26°24'53.56"N 78°58'13.69"E L 26°25'11.63"N 78°58'13.69"E L 26°25'11.63"N 78°57'58.71"E M 26°25'10.99"N 78°57'53.88"E P 26°25'10.49"N 78°57'53.88"E P 26°25'14.59"N 78°57'53.88"E P
;	16870	14600
)	12050	39000
) )	20083	00059
>	1.18	0.65
) ) -	29	9
)	266	2179
) - ) _	1.70	10.0
) )  -	849, 855, 1486	1288, 1339
> -	Kheira Shyampur a-1	Bahadurp ura
2	Bhind	Roun
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2	48	6
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State Level Environment Impact Assessment Authority, M.P.

(EPCO)

Paryavaran Parisar

E-5, Arera Colony, Bhopal (M.P.)

Scanney With CottiScann

	A 26°22′56.29"N 79° 2′24.61"E B 26°22′53.06"N 79° 2′14,97"E C 26°22′49.59"N 79° 2′2.76"E D 26°22′48.20"N 79° 1′59.52"E E 26°22′48.57"N 79° 1′59.31"E F 26°22′48.57"N 79° 1′58.38"E G 26°22′53.36"N 79° 1′58.38"E 126°22′53.36"N 79° 1′58.59"E 1 26°22′53.36"N 79° 2′22.59"E	A 26°25'33.32"N78°51'10.50"E B 26°25'34.80"N 78°51'9.42"E C 26°25'52.56"N 78°51'36.12"E D 26°25'50.51"N78°51'37.24"E E 26°25'38.16"N 78°51'16.22"E F 26°25'35.50"N 78°51'13.93"E	A26°26'40.80"N78°52'55.01"E B26°26'39.68"N78°52'45.55"E C26°26'42.42"N78°52'41.71"E D26°26'44.85"N78°52'53.31"E	A 26°25'26.00"N78°49'43.56"E B 26°25'8.94"N 78°50'27.90"E C 26°24'43.26"N 78°50'24.78"E D 26°24'42.28"N 78°50'28.56"E F 26°24'50.25"N 78°50'30.41"E G 26°24'50.25"N 78°50'30.41"E G 26°25'6.62"N 78°50'25.70"E H 26°25'22.15"N78°49'40.59"E
	51030	105000	75600	103866
; }	36450	75000	54000	74190
4	60750	125000	00006	123650
,	1.24	2.50	2.57	0.50
	81	55	107	105
-	602	910	328	2355
	4.88	5.00	3.50	24.7
	Ţ	1,2	5234	181
	Muratpur a	Mahayar	Bilav	Dahema 3
	Roun	Roun	Bhind	Roun
	Sindh	Sindh	Sindh	Sindh
=	92	51	52	53



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State Level Environment Impact Assessment Authority, M.P. (EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.) Seanned With Caronia

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A 26°21'38.99"N78°51'40,96"E	B 26°21'8.13" N 78°52'4.91" E 26°21'30.18"N 78°51'46.44" E D 26°21'19.77" N 78°51'59.36" E 26°21'11.39" N 78°51'59.36" E 26°21'17.37" N 78°51'59.36" E 126°21'17.38" N 78°51'55.27" E 126°21'17.68" N 78°51'55.27" E 126°21'17.68" N 78°51'53.38" E 126°21'22.72" N 78°51'53.38" E 126°21'23.01" N 78°51'51,17" E M 26°21'25.02" N 78°51'51,17" E M 26°21'25.02" N 78°51'51,17" E M 26°21'25.02" N 78°51'51,43" E N 26°21'25.02" N 78°51'47,83" E N 26°21'32.30" N 78°51'51,43" E N 26°21'32.30" N 78°51'51'51'51'51'51'51'51'51'51'51'51'51'5	A 26°25'29.18"N 78°51'6.04"E B 26°25'31.34"N 78°51'5.57"E C 26°25'30.75"N 78°50'23.22"E D 26°25'48.27"N78°49'35.41"E E 26°25'45.75"N 78°50'22.60"E F 26°25'27.60"N 78°50'22.60"E	A 26°25'15.94"N78°54'57.06"E B 26°25'18.63"N 78°54'55.79"E C 26°25'28.32"N 78°55'43.59"E D 26°25'24.42"N 8°55'43.62"E	A 26°19'54.21"N 78°50'37.80"E B 26°19'54.11"N 78°50'52.00"E C 26°19'43.74"N 78°50'57.76"E D 26°19'39.86"N 78°51'5.37"E E 26°19'37.98"N 78°51'12.91"E F 26°19'33.51"N 78°51'11.95"E G
-	79464	100800	86800	177257
	56760	72000	62000	126612
	94600	120000	103333	211020
	1.00	0.50	1.03	1.00
	83	. 56	46	106
	1139	2530	2174	1991
211	9.46	24.0	10.0	21.1 0
	1043, 1103	1	1	2638
•	Mangarh	Dahema 1	Mehanda	Virauna
100	Roun	Roun	Roun	Roun
	Sindh	Sindh	Sindh	síndh
	48	55	56	57

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State Level Environment Impact
Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

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BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	A 26°24'7.45"N 78°49'19.35"E B 26°24'8.26"N 78°49'15.02"E C 26°24'17.78"N 78°49'19.68"E D 26°24'38.11"N78°50'18.48"E E 26°24'36.12"N 78°50'21.65"E F 26°24'36.14"N 78°50'21.65"E	A 26°25'16.47"N78°57'59.92"E B 26°25'15.35"N 78°58'17.39"E C 26°25'14.63"N 78°58'17.52"B D 26°25'14.98"N78°58'19.06"E E 26°25'12.61"N 78°58'7.43"E G 26°25'12.61"N 78°58'7.43"E	A 26°25'43.78"N78°49'36,43"E B 26°25'48.25"N78°49'35.08"E C 26°25'32.30"N 78°49'25.00"E D 26°25'23.38"N78°49'41.02"E E 26°25'26.30"N 78°49'42.20"E F 26°25'35.12"N 78°49'27.53"E	A 26°25'13.43"N78°54'37.20"E B 26°25'11.16"N78°54'38.46"E C 26°25'28.10"N78°55'40.65"E D 26°25'30.26"N78°55'40.21"E E 26°25'24.18"N 78°55'3.56"E
	169176	42840	53550	36862
	120840	30600	38250	26330
	201400	51000	63750	43883
) } _	1.00	1.28	0.50	0,45
) } -	101	7.5	86	50
1	1995	534	1302	1950
	20.1	4.00	12.7 5	9.75
	1,2,9,371,37	1115, 1171	1,2,181	1486
	Nivsai Ridiya-1	Attrsuma	Dahema 2	Khroshya mupura-2
	Roun	Bhind	Roun	Bhind
	Sindh	Sindh	Sindh	Sindh
	80	59	09	61



State Level Environment Impact
Assessment Authority, M.P.
(EPGO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)

A26°25'34.87"N 78°53'15.88"E B26°25'33.40"N 78°53'13.50"E C26°25'25.64"N 78°53'13.50"E D26°25'21.22"N 78°53'14.95"E E26°25'21.22"N 78°53'10.79"E G 26°25'12.71"N 78°53'10.79"E G 26°25'13.33"N 78°53'10.79"E I 26°25'13.33"N 78°53'10.26"E I 26°25'13.33"N 78°53'2.88"E K 26°25'13.33"N 78°53'2.88"E K 26°25'13.33"N 78°53'3.88"E N26°25'13.17"N 78°53'3.88"E N26°25'13.17"N 78°53'3.88"E N26°25'13.17"N 78°53'3.88"E N26°25'13.17"N 78°53'3.88"E N26°25'13.17"N 78°53'3.88"E N26°25'14"E N 26°25'3.64"N 78°53'3.98"E N 26°25'3.64"N 78°53'3.98"E N 26°25'3.64"N 78°53'3.98"E S 26°25'14"N 78°53'3.51"E D 26°25'14"N 78°53'5.33"E C 26°25'14"N 78°53'5.33"E C 26°25'14"N 78°53'5.33"E C 26°25'14"N 78°53'5.33"E C 26°25'14"N 78°53'5.31"E C 26°25'14"N 78°53'5.31"E C 26°25'14"N 78°53'5.31"E C 26°25'14"N 78°53'5.31"E C 26°25'14"N 78°53'3.50"E I 26°25'16"N 78°54'10.15"E H 26°25'16"N 78°54'10.15"E	A 26°24'57.11"N 78°54'5.64"E B 26°24'58.96"N 78°54'5.37"E C 26°25'18.63"N 78°54'55.79"E D 26°25'15.94"N78°54'57.06"E
19656	22680
14040	16200
32472	27000
0.33	0.55
78	86
729	505
7.06	4.90
578, 599. 741, 787 809, 810,	1
Khroshya mupura-3 Mupura-4	Mehanda
Bhind	Roun
Sindh	Sindh
63	64

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State Level Environment Impact Assessment Authority, M.P.

(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

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A 26°24'32.40"N79°01'05.60"E B 26°24'29.60"N79°01'03.30"E 26°24'9.20"N 79° 1'11.63"E D 26°24'9.01"N 79° 1'11.62"E E 26°23'44.48"N 79° 0'51.57"E F 26°23'24.70"N79°00'36.60"E G 26°23'24.70"N79°0'39.70"E H 26°23'24.03"N 79° 0'41.04"E I 26°23'53.20"N 79° 1'14.68"E Z6°23'53.20"N 79° 1'14.68"E Z6°24'12.10"N 79° 1'14.29"E	A 26°26'40,456"N78°52'46.041"E  B 26°26'42,439"N 78°53'1,232"E  C 26°26'35,634"N78°53'13,194"E  D 26°26'1.781"N 78°53'23,194"E  F 26°26'1.781"N 78°53'23,178"E  G 26°26'24.218"N78°53'23,644"E  H  26°26'36.523"N 78°53'21.581"E  1 26°26'43,604"N 78°53'21.581"E  1 26°26'43,604"N 78°53'2.013"E	A 26°23'33.69"N78°50'34.51"E B 26°23'37.02"N78°50'31.78"E C 26°23'24.21"N 78°49'52.40"E D 26°23'6.42"N 78°49'33.15"E E 26°23'3.84"N 78°49'35.69"E F 26°23'23.02"N 78°49'59.29"E
37800	107715	a7880
27000	76939	34200
45000	128232	57000
0.45	0:30	0.30
94	48	06
2170	1696	2116
10.0	14.2 S	19.0
1201,1139 (Naveen- 629,1209)	197/2, 200, 285 (Naveen- 205, 739)	534
Padhora - 2	Remja	Nivsai 534-3
Roun	Roun	Roun
Sindh	Sindh	Sindh
	99	29

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State Level Environment Impact Assessment Authority, M.P.

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A 26°25'32.46"N78°55'55.90"E B 26°25'34.73"N 78°55'53.12"E C 26°25'44,88"N 78°56'8,75"E D 76°75'43,68"N 78°56'8,75"E	A 26°24'1,74"N 79° 3'32.96"E B 26°244,19"N 79° 3'33.14"E C 26°243.51"N 79° 3'47.53"E D 26°24'0,77"N 79° 3'47.25"F	A26°24'25.68"N 79° 6'27.46"E B 26°24'24.07"N 79° 6'27.64"E C 26°24'23.60"N 79° 6'15.94"E D 26°24'24.13"N 79° 64.60"E E 26°24'25.75"N 79° 6'0.08"E F 26°24'26.17"N 79° 6'16.56"E	A 26°24'43.40"N 79°5'12.88"E B 26°24'43.78"N 79° 5'10.81"E C 26°25'35.03"N 79° 5'1.80"E D 26°25'34.67"N 79°5'15.26"E E 26°25'34.67"N 79°5'17.02"E F 26°25'34.67"N 79° 5'6.57"E G 26°25'12.30"N 79° 5'57.52"E H 26°24'42.60"N 79° 5'57.52"E J 26°25'12.24"N 79° 6'14.11"E	A 26°20'31.20"N 78°52'3.84"E B 26°20'31.66"N 78°52'7.15"E C 26°20'46.75"N 78°52'9.65"E D 26°20'56.60"N 78°52'8.62"E E 26°21'7.85"N 78°52'5.61"E F 26°21'4.26"N 78°51'59.94"E G 26°20'47.69"N 78°52'5.86"E
33600	12172	67200	71306	46019
24000	8694	48000	50933	32871
40000	14490	80000	84888	54785
1.00	0.45	2.00	0.36	0.50
118	80	78	131	101
340	400	513	1800	1085
4.00	3.22	4.00	23.5 8	10,9
287	472	1195	1, 391	8/3010, 8/3011, 8/3015, 8/3016, 8/3016
Baghali Bhadurpu ra	Larol	Dwar	Hilgawan	Indurkhi
Roun	Roun	Bhind	Roun	Roun
Sindh	Sindh	Sindh	Sindh	Sindh
68	69	70	7.1	22

STATE OF THE STATE

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State Level Environment Impact Assessment Authority, M.P. (EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.) Scannic with Carriston

A 26°23'36.05"N 79° 0'50.88"E B 26°23'36.65"N 79° 0'49.95"E C 26°23'28.81"N 79° 0'42.88"E D 26°23'26.58"N 79° 0'44.24"E	A 26°24'11.58"N78°58'45.96"E B 26°24'13.09"N78°58'51.20"E C 26°23'52.83"N78°59'19.99"E D 26°23'59.91"N78°59'52.07"E E 26°24'6.97"N78°59'57.57"E F 26°24'25.48"N79°0'12.85"E G 26°24'23.38"N79°0'15.92"E H 26°24'5.24"N 78°59'52.54"E J 26°23'59,19"N 78°59'52.54"E J 26°23'59,19"N 78°59'52.54"E	A 26°24'4,47"N79°4'48,49"E B 26°24'2,48"N79°4'49,14"E C 26°23'58,93"N79°4'31.31"E D 26°24'1,93"N79°4'31.14"E E 26°24'3,56"N79°4'39,61"E F 26°24'1,38"N 79° 4'40,35"E
52290	98311	33.00
37350	70579	24000
62250	117632	40000
1.50	0.60	1.00
120	200 200	83
346	2246	485
4.15	19.7	4.00
1274, 1290 (Naveen- 121, 1846)	1374, 1619, 2324, 2341	1254
Jakhmoli	Kakhara	Ojhaghat
Bhind	Bhind	Bhínd
Sindh	Sindh	Sindh
73	74	. 75



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#### **CHPATER-4**

# LAND UTILIZATION PATTERN IN THE DISTRICT: FOREST, AGRICULTURE, HORTICULTURE, MINING ETC.

As per the district statistical book 2015, the total area of Bhind district is 4459 sq.kms. Out of which forest area is 8 9 sq.kms. The district falls in Lower Chambal Sub Basin of Yamuna Basin. Rivers of Chambal, Asad, Kunawari, Besali, Sindh & Pahuj drains the entire area. The area irrigated by tube wells is 739.94 sq kms, by open-wells 542.47 sq.kms, by canals 759.94 sq.kms and by ponds 12.70 sq.kms. The total area under irrigation from various sources is 2062.01sq.kms. About 62 % area is irrigated by Ground water of total irrigated area. The principal crops grown are Wheat, Rice, Maize, Jowar and others.

However the major part of the area fall in the Ganga basin. The drainage of the district is towards north and north east. The five rivers, from west to east are the Bina, the Dhasan, the Bewas, the Sonar and the Bamner. The Bina takes its course upto several Kilometer to the south of the district and enters it near village Mahura. After flowing through Rahatgarh, the river takes a north easterly course and at places forms the boundary with Vidisha district.

### **Hydrology & Irrigation**

The entire Bhind district lies in lower Chambal basin. Major tributaries are Kunwari, Asad, Besali, Sindh & Pahuj rivers. The details of the catchment area of each river is given in table no. 2.

Table No. 2 Catchment Area of the Major Rivers

Sub Basin	Catchmentarea in the district (sq.Km.)	% of the Catchment area in the district	Length of river in the district (Km)
Direct Catchment of River Chambal	257.87	5.79	46.3
Asad & Kunwari	896.14	20.13	85.0
Besali	1729.28	38.84	57.0
Sindh	785.76	17.65	64.0
Pahuj	783.17	17.59	30.0
Total	4451.96	100.00	282.30

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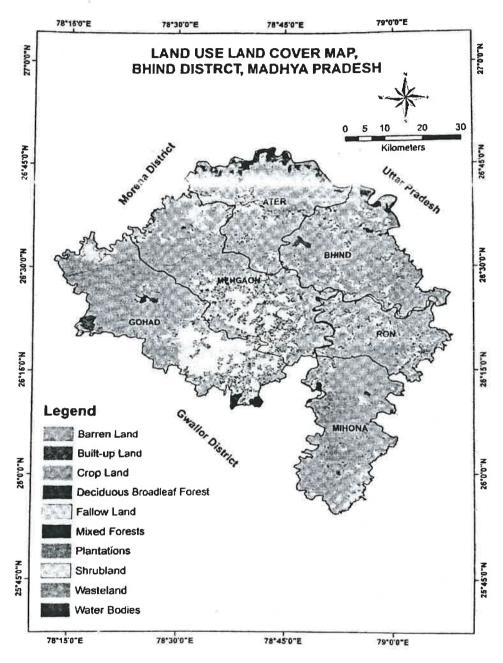
Sr. No.	Class	Area in Ha,	Percentage of coverage
1	Canal/drain	171.3626	0.04 %
2	Cropland	3,73,815.9	83.97 %
3	Deciduous (Dry/Moist/Thorn)	7,250.911	1.63 %
4	Fallow land	530.2852	0.12 %
5	Forest Plantation	50.17493	0.01 %
6	Gullied/Ravenous land	40,788.25	9.16 %
7	Industrial	1,258.708	0.28 %
8	Lake/Ponds	124.8923	0.03 %
9	Mining 2 Quarry	267 5055	0.06 %
10	Reservoir/Tank	759.3986	0.17 %
11	River	4,301.775	0.97 %
12	Rural	4,964.047	1.12 %
13	Scrub Forest	1,024.176	0.23 %
14	Scrub land	6,847.507	1.54 %
15	Tree Clad Area	258,9849	0.06 %
16	Urban	2,769.467	0.62 %
	Total	4,45,183.553	100 %



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#### Land use Map of Bhind District



Source: Minister of jal shakti Department of water resourc





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#### **CHPATER-05**

#### PHYSIOGRAPHY OF THE DISTRICT

Physiographically, a large area of the district forms part of the vast older alluvial plains. Ravines along the river Chambal is special feature of the district. The area has very gentle slope towards northeast with highest elevation of 190 m above MSL in the southwestern part and the lowest elevation of 149 m above MSL in the northwestern part. The district is crossed by a number of rivers and streams. The Chambal and the Sind are the main rivers of the district. The Chambal forms the northern boundary. As the 2 rivers are the tributaries of the Yamuna, they form parts of the Ganga drainage system. Aaprt from these, the other important rivers of the district are the Kunwari, the ahuj, the Asan and the Vaisali.

## Geomorphology:

The north west area of the district forms vast alluvial plains. The south eastern area forms pediment Pedi plain complex, A small area in the southern part forms hills and valleys. The geomorphological map of Bhind district is given in Fig 3.

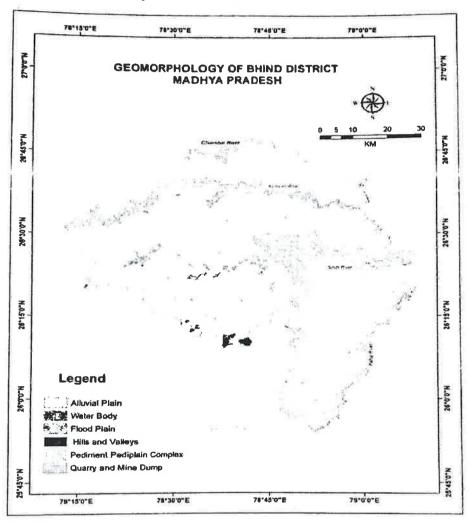


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# Geomorphological Map of Bhind District



Source: Minister of Jal Shakti Department of water resource

#### Soil cover:

The soil in the district generally falls under the group of deep alluvial soils. Color of the soil varies from brown, yellowish brown to dark gray brown. Texture of soils varies from sandy loam (below 20% clay), loam (20 - 30% clay), clay loam (30 - 40% clay) & clay (more than 40% clay). Clay loam soil found in some parts of Gohad & Mehgaon blocks and sandy loam soil is usually found in other blocks.

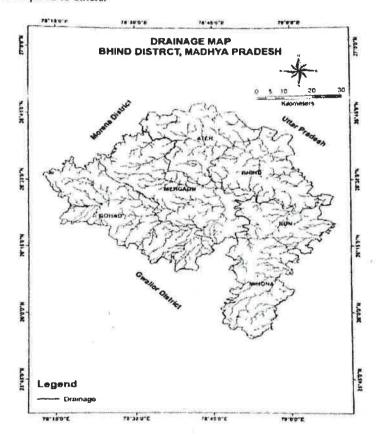
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Hydrology and Drainage:

Chambal, Asad, Kunawari, Besali, Sindh & Pahuj rivers drain the area. Ravines & Gullies have developed along the course of all rivers particularly along the flood plains. A very fine network of gullies and forming dendritic drainage network characterizes these. The depth of dissection by gullies is more intense along the river Chambal as compared to others.



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		List of Ma	Chapter- 6 ines with Area Khasara and validat	los	
61		FIRE OF IVI	ines with Wisa vugsata and Asilgs.	T	
SI no	Mines Name	Tehsil	Khasra No	Area	Validation
1	Ajeeta	Mehgaon	1360	9	30.06.2023
2	Bacchreta	Mehgaon	803	3	30.06.2023
3	Barethiraj	Mehgaon	145	3	30.06.2023
4	Girwasa Naveen	lahar	6,210,1325	10	30.06.2023
5	Girwasa Purani	lahar	100	1.672	30.06.2023
6	Gurira	Mihona	1	4	30.06.2023
7	Kaccharghat	Mehgaon	610	5	30.06.2023
8	Lapring	Labor	160		10 06 2023
9	Lilwari-1	Lahar	258,259	1 1	30 06.2023
10	Lilwari-2	Lahar	258,259	17.17	30,06.2023
11	Matiyawali-2	Mihona	452	15.21	30.06.2023
12	Matiyawali-3	Mihona	514	17.65	30.06.2023
13	Sanduri	Mehgaon	665,666,668	3.19	30.06.2023
14	Ajnaar 1	lahar	1576	23.81	30.06.2023
15	Ajnaar 2	lahar	1576	9	30.06.2023
16	Baddettar	Mihona	1	24.9	30,06.2023
17	Badera	Mehgaon	542	4	30.06.2023
18	Baretikhurd-2	Mehgaon	434	4	30.06.2023
19	Bharolikalan	Mehgaon	1713,2278,2435	11.17	30.06.2023
20	Dhaur-1	Mihona	1,2,12,45,67	18.23	30.06.2023
21	Dhaur-2	Mihona	245,246,251	11.68	30.06.2023
22	Dhaur-3	Mihona	247,200	15.85	30.06.2023
23	Goram 1420	Mehgaon	1420	10	30.06.2023
24	Kharoli	Mehgaon	546,850	19	30.06.2023
25	Kheriyasindh	Meligaon	1331	4	30.06.2023
26	Madori	lahar	770	3	30.06.2023
27	Matiyawali-1	Mihona	66,75	14.71	30.06.2023
28	Bacchroli	Mehgaon	545	2.97	30.06.2023
29	Baretikhurd-1	Mehgaon	284,515	13	30.06.2023
30	Bharolikhurd	Meligaon	3349, 3355, 3402, 3403, 3405	8.94	30.06.2023
31	Chandrawali	lahar	1, 20, 15	5.975	30.06.2023
32	Dubka	Mehgaon	1208	13.51	30.06.2023
33	Musawali	Mehgaon	1212	7	30.06.2023
34	Sadha	Mehgaon	801	5	30.06.2023
35	Bhapar	lahar	125,127,91	2.63	30.06.2023
36	Goram 1472	Meligaon	1472,1473,1495	7.78	30.06.2023
37	Sijroli	lahar	61	7.98	30.06.2023
	Dochra	Bhind			Proposed in
			2787	4.00	Auction
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40 41 42	Mahayar 2	Roun			
	1	Konn	2	13.34	Auction Proposed in
42	Padhora-1	Roun	22	4.00	Auction Proposed in
	Nit.			5.00	Auction
	Niwsai 534-2	Roun	534	19.00	Proposed in Auction
43	Nivsai Ridiya-2	Roun	410	24.40	Proposed in Auction
44	Kaundh Madeyan - 1	Roun	1	16.72	Proposed in Auction
45	Niwsai 534-1	Roun	534		Proposed in
46	Nivsai Ridiva-3	Boun	410	19.86	Auction Proposed in
47	Kaundh Madeyan -	-		2.00	Auction
48	3	Roun	500	13.93	Proposed in Auction
	Kheira Shyampura- 1	Bhind	849, 855, 1486	1.70	Proposed in Auction
49	Bahadurpura	Roun	1288, 1339	10.00	Proposed in Auction
50	Muratpura	Roun	1		Proposed in
51	Mahayar	Roun	1,2	4.88	Auction Proposed in
52	Bilav	Bhind	5234	5.00	Auction Proposed in
53	D.L.			3.50	Auction
	Dahema 3	Roun	181	24.73	Proposed in Auction
54	Mangarh	Roun	1043, 1103	9.46	Proposed in Auction
55	Dahema 1	Roun	1	7.70	Proposed in
				24.00	Auction
56	Mehanda	Roun	1		Proposed in
57	Virauna	Dave	7/20	10.00	Auction
		Roun	2638	21.10	Proposed in Auction
50	Nívsai Ridiya-1	Roun	1,2,9,371,372	20.14	Proposed in
59	Attrsuma	Bhind	1115, 1171	20.14	Auction Proposed in
60	Dahema 2	n.	1-0-0	4.00	Auction
		Roun	1,2,181	12.75	Proposed in Auction
61	Khroshyamupura-2	Bhind	1486	9.75	Proposed in
62	Khroshyamupura-3	Bhind	578, 599, 741, 787		Auction Proposed in
63	Khroshyamupura-4	Bhind	809, 810, 1486	7.06	Auction Proposed in
64	Mehanda	Roun	1	7.22	Auction Proposed in
-	Dadhaa 2		1	4.90	Auction
65	Padhora -2	Roun	1201,1139 (Naveen- 629, 1209)	10.00	Proposed in Auction
66	Remja	Roun	197/2, 200, 285 (Naveen-205,		Proposed in
			739)	14.25	Auction

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67	Nivsai 534-3	Roun	534	19.00	Proposed in
68	Baghali Bhadurpura	Roun	287	4.00	Proposed in
69	Larol	Roun	472	3.22	Proposed in Auction
70	Dwar	Bhind	1195	4.00	Proposed in Auction
71	Hilgawan	Roun	1, 391	23.58	Proposed in
72	Indurkhi	Roun	8/3010, 8/3011, 8/3015, 8/3016, 8/3018	10.96	Proposed in Auction
73	Jakhmoli	Bhind	1274, 1290 (Naveen- 121, 1846)	4.15	Proposed in
74	Kalihara	bhind	1374, 1619, 2324, 2341	19.77	Proposed in Auction
75	Ojhaghat	Bhind	1254	4.00	Proposed in Auction

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# CHPATER -07 RECOMMENDATION

#### Introduction

India is developing at a faster pace and much technological advancement has already been taken place in the surveillance and remote monitoring in the field of mining. Thus, it is prudent to utilize the technological advancement for the effective monitoring of the mining activiti es particularly sand mining in the country.

Following a series of orders by the National Green Tribunal in 2018, the Ministry of Environment, Forests and Climate Change has for the first time released guidelines to monitor and check illegal sand mining in the country. The Enforcement and Monitoring (EM) Guidelines for Sand Mining 2020 released by the Ministry include directions to states to carry out river audits, put detailed survey reports of all mining areas online and in the public domain, conduct replenishment studies of river beds, constantly monitor mining with drones, aerial surveys, ground surveys and set up dedicated task forces at district levels. The guidelines also push for online sales and purchase of sand and other riverbed materials to make the process transparent. They propose night surveillance of mining activity through night-vision drones.

While the MoEF&CC has already put in place the Sustainable Sand Management Guidelines 2016, which focus on the management of sand mining in India, that there is an urgent need to have guidelines for effective enforcement of regulatory provisions and their monitoring.

#### Background

The Mines and Minerals (Development and Regulation) Act, 1957 has empowered state governments to make rules to prevent illegal mining, transportation and storage of minerals. "But in the recent past, it has been observed that there were a large number of illegal mining cases in the country and in some cases, many of the officers lost their lives while executing their duties to curb illegal mining. Illegal and uncontrolled illegal mining leads to loss of revenue to the State and degradation of the environment. The enforcement guidelines focus on the "effective monitoring of sand mining from the identification of sand mineral sources to its dispatch and end-use by consumers and the general public and looks at a uniform protocol for the whole country".

The need for replenishment study for river bed sand is also required in order to "nullify the adverse impacts arising due to excessive sand extraction". No riverbed mining will be allowed during the monsoon. In cases where rivers become district boundaries or state boundaries, the districts or states sharing the boundary shall constitute the combined task force for monitoring of mined materials, mining activity and participate in the preparation of District Survey Reports (DSR) by providing appropriate inputs.

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The guidelines say the detailed survey needs to be carried out for quantification of minerals and the demand and supply of the riverbed material through market survey, including the future demand for the next five years.

The guidelines also push for the sale and purchase of sand and river bed material (RBM) online to make the process more transparent. "In order to curb illegal mining, it is very necessary that the general public is aware of the legal source of sand and RBM suppliers. It is suggested that the state government should develop an online portal for sale and purchase of sand and RBM. The state government will also decide the model of sale and the price of RBM. "It is suggested that the controlled price model is more effective in controlling illegal sand mining," the guidelines state

This document will serve as a guideline for collection of critical information for enforcement of the regulatory provision(s) and also highlights the essential infrastructural requirements necessary for effective monitoring for Sustainable Sand Mining. The document is prepared in consideration of various orders/directions issued by Hon'ble NGT in matters pertaining to illegal sand mining and also based on the reports submitted by expert committees and investigation teams.

Further, this document is supplemental to the existing "Sustainable Sand Mining Management Guideline-2016" (SSMG-2016), and these two guidelines viz. "Enforcement & Monitoring Guidelines for Sand Mining" (EMGSM-2020) and SSMG-2016 shall be read and implemented in sync with each other. In case, any ambiguity or variation between the provisions of both these document arises, the provision made in "Enforcement & Monitoring Guidelines for Sand Mining-2020 "shall prevail.

#### Objective of Guidelines

- Identification and Quantification of Mineral Resource and its optimal utilization.
- To regulate the Sand & Gravel Mining in the Country since its identification to its final end-use by the consumers and the general public.
- Use of IT-enabled services & latest technologies for surveillance of the sand mining at eachstep.
- Reduction in demand & supply gaps.
- Setting up the procedure for replenishment study of Sand.
- Post Environmental Clearance Monitoring.
- Procedure for Environmental Audit.
- To control the instance of illegal mining.

#### Salient Features of the Guidelines

 District Survey Report: The guidelines provide the procedure to be followed for identifying areas where mining can be allowed or prohibited. It provides guidelines for preparing a district survey report, which includes: Preparing a report before granting a mining lease, and Defining mining and no mining zones based on certain environmental and social factors.

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- Preventing Illegal Mining: The guidelines suggest that sites can be monitored remotely by using unmanned artificial vehicles or drones. Drones can also be used for quantity estimation and land use monitoring. Further, the guidelines propose night surveillance of mining activity through night-vision drones. The environmental damages incurred due to illegal mining will be assessed by a committee constituted by the District Administration.
- Environmental Clearance: Environmental Clearance for mining is given by regulatory authorities after considering the potential environmental impact. However, it has been observed that often the Letter of Intent (Lol) is granted for a location which is not feasible

for environment-friendly mining. The guidelines provide that LoIs should be granted for those locations which have the least possibility of an impact on the environment and nearby habitation.

The guidelines also push for online sales and purchase of sand and other riverbed materials to make the process transparent.

There are some important key points of EM guild lines for sand mining 2020:

### Source to Destination Monitoring:

- The new set of guidelines focuses on the effective monitoring of sand mining from the identification of sand mineral sources to its dispatch and end-use by consumers and the general public and look at a uniform protocol for the whole country.
- Constantly monitor mining with drones and night surveillance of mining activity through night-vision drones.

#### Audits.

 States to carry out river audits put detailed survey reports of all mining areas in the public domain.

#### Enforcement:

- It gives directions to states to set up dedicated task forces at district levels.
- In cases where rivers become district boundaries or state boundaries, the districts
  or states sharing the boundary shall constitute the combined task force for
  monitoring of mined materials, mining activity and participate in the preparation
  of District Survey Reports (DSR) by providing appropriate inputs.

Sustainability:

· Conduct replenishment study for river bed sand in order to nullify the adverse

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impacts arising due to excessive sand extraction.

No riverbed mining will be allowed during the monsoon.

## Requirement for Monitoring & Enforcement

Sustainable Sand Mining Management Guidelines (SSMMG) 2016 and past experience suggest that the sources of sand in India are through:

- ✓ River (riverbed and flood plain),
- ✓ Lakes and reservoirs,
- ✓ Agricultural fields.
- ✓ Coastal / marine sand.
- ✓ Palaeo-channels and
- Manufactured Sand (M-Sand).

### Preparation of District Survey Report

"Sustainable Sand Mining Guidelines, 2016" issued by MoEF&CC requires preparation of District Survey Report (DSR), which is an important initial step before grant of mining lease/Lol. The guidelines emphasize detailed procedure to be followed for the purpose of identification of areas of aggradation/ deposition where mining can be allowed and identification of areas of erosion and proximity to infrastructural structures and installation where mining should be prohibited. Calculation of annual rate of replenishment, allowing time for replenishment after mining, identification of ways of scientific and systematic mining; identifying measures for protection of environment and ecology and determining measures for protection of bank erosion, benchmark (BM) with respect to mean Sea Level (MSL) should be made essential in mining channel reaches (MCR) below which no mining shall be allowed.

Therefore, preparation of District Survey Report is a very important step and sustainable sand mining in any part of the country will depends on the quality of District Survey Report.

Considering the importance of district survey report, the Ministry of Environment Forest and climate change, after consultation with experts dealing with mining-related matters, formulated the following guidelines for the preparation of comprehensive District Survey Report for sand mining.

- a) District Survey Report for sand mining shall be prepared before the auction/e-auction/grant of the mining lease/Letter of Intent (Lol) by Mining department or department dealing the mining activity in respective states.
- b) The first step is to develop the inventory of the River Bed Material and Other sand sources in the District. In order to make the inventory of River Bed Material, a detailed survey of the district needs to be carried out, to identify the source of

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River Bed Material and alternative source of sand (M-Sand). The source will include rivers, de-siltation of reservoir/dams, Patta lands/Khatedari Land, M-sand etc.

- c) District Survey Report is to be prepared in such a way that it not only identifies the mineral-bearing area but also define the mining and no mining zones considering various environmental and social factors.
- d) Identification of the source of Sand & M-Sand. The sources may be from Rivers, Lakes, Ponds, Dams, De-silting locations, Patta land/Khtedari lands. The details in case of Rivers such as [name, length of river, type (Perennial or Non-Perennial), Villages, Tensil, District], in case of Lakes, Ponds, Dams, De-silting locations [Name, owned/maintained by (State Govt./PSU), area, Villages, Tehsil, District] in case of Patta land/Khtedari lands [Owner Name, Sy No, Area, Agricultural/Non-Agricultural, Villages, Tehsil, District], in case of M-Sand Plant [Owner Name, Sy No, Area, Quantity/Annum, Villages, Tehsil, District], needs to be recorded as per format given in Annexure-I.
- e) Defining the sources of Sand/M-Sand in the district is the next step for identification of the potential area of deposition/aggradation wherein mining lease could be granted. Detailed survey needs to be carried out for quantification of minerals. The purpose of mining in the river bed is for channelization of rivers so as to avoid the possibility of flooding and to

maintain the flow of the rivers. For this, the entire river stretch needs to be surveyed and original ground level (OGL) to be recorded and area of aggradation/deposition needs to be ascertained by comparing the level difference between the outside riverbed OGL and water level. Once the area of aggradation/deposition is identified, then the quantity of River Bed Material available needs to be calculated. The next step is channelization of the river bed and for this central <sup>3</sup>/<sub>4</sub>th part of the river; width needs to be identified on a map. Out of the

3/4th part area, where there is a deposition/aggradation of the material needs to be identified. The remaining 1/4th area needs to be kept as no mining zone for the protection of banks. The specific gravity of the material also needs to be ascertained by analyzing the sample from a NABL accredited lab. Thus, the quantity of material available in metric ton needs to be calculated for mining and no mining zone.

- f) The permanent boundary pillars need to be erected after identification of an area of aggradation and deposition outside the bank of the river at a safe location for future surveying. The distance between boundary pillars on each side of the bank shall not be more than 100 meters.
- g) Identifying the mining and no mining zone shall follow with defining the area of

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sensitivity by ascertaining the distance of the mining area from the protected area, forest, bridges, important structures, habitation etc. and based on the sensitivity the area needs to be defined in sensitive and non-sensitive area.

- h) Demand and supply of the Riverbed Material through market survey needs to be carriedout. In addition to this future demand for the next 5 years also needs to be considered.
- It is suggested that as far as possible the sensitive areas should be avoided for mining, unless local safety condition arises. Such deviation shall be temporary & shall not be a permanent feature.
- j) The final area selected for the mining should be then divided into mining lease as per the requirement of State Government. It is suggested the mining lease area should 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 promote illegal mining.
- k) Cluster situation shall be examined. A cluster is formed when one mining lease of homogenous mineral is within 500 meters of the other mining lease. In order to reduce the cluster formation mining lease size should be defined in such a way that distance between any two clusters preferably should not be less than 2.5 Km. Mining lease should be defined in such a way that the total area of the mining leases in a cluster should not be more than 10Ha.
- The number of a contiguous cluster needs to be ascertained. Contiguous cluster is formed when one cluster is at a distance of 2.5 Km from the other cluster.
- m) The mining outside the riverbed on Patta land/Khatedari land be granted when there is possibility of replenishment of material. In case, there is no replenishment then mining lease shall only be granted when there is no riverbed mining possibility within 5 KM of the

Patta land/Khatedari land. For government projects, mining could be allowed on Patta land/Khatedari land but the mining should only be done by the Government agency and material should not be used for sale in the open market. Cluster situation as mentioned in para k above is also applicable for the mining in Patta land/Khatedari land.

n) The State Government should define the transportation route from the mining lease considering the maximum production from the mines as at this stage the size of mining leases, their location, the quantity of mineral that can be mined safely etc. is available with the State Government. It is suggested that the transportation route should be selected in such a way that the movement of trucks/tippers/tractors

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from the villages having habitation should be avoided. The transportation route so selected should be verified by the State Government for its carrying capacity.

- o) Potential site for mining having its impact on the forest, protected area, habitation, bridges etc, shall be avoided. For this, a sub-divisional committee may be formed which after thesite visit shall decide its suitability for mining. The list of mining lease after the recommendation of the Committee needs to be defined in the following format given in as Annexure-II. The Sub-Divisional Committee after the site visit shall make a recommendation on the site for its suitability of mining and also records the reason for selecting the mining lease in the Palta land. The details regarding cluster and contiguous cluster needs to be provided as in Annexure-III. The details of the transportation need to be provided as in Annexure IV.
- p) Public consultation-The Comments of the various stakeholders may be sought on the list of mining lease to be auctioned. The State Government shall give an advertisement in the local and national newspaper for seeking comments of the general public on the list of mining lease included in the DSR. The DSR should be placed in the public domain for at leastone 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. The final list of sand mining areas [leases to be granted on riverbed & Patta land/Khatedari land, de-siltation location (ponds/lakes/dams), M-Sand Plants (alternate source of sand)] after the public hearing needs to be defined in the final DSR in the format as per Annexure-V. The details regarding cluster and contiguous cluster needs to be provided in Annexure-VI. The details of the transportation need to be provided in Annexure-VII.

No Of Annexure	Details
Annual Deposition	Sustainable sand Mining Management Guidelines 2016
Annexure -I	Details of Sand/ M-Sand Sources
Annexure -II	List of Potential Mining Leases (Existing & Proposed)
Annexure -III	Cluster & Contiguous Cluster details
Annexure –IV	Transportation Routes for individual leases and leases in Cluster
Annexure – V	Final List of Potential Mining Leases (Existing & Proposed)
Annexure – VI	Final List of Cluster & Contiguous Cluster
Annexure – VII	Final Transportation Routes for individual leases and leases in Cluster

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								Street Street	_	-
Γ				<b>V</b>				Mineable minerals potential (in metric tonne (60% of total mineral	9140292	
	Mineable minerals potential (in metric tonne (60% of total mineral potential)	9140292						Area recommended for mineral concession (in square meters)	95,45,000.00	
	Area recommended for mineral concession (in square meters)	9545000			Total Mineable Mineral Potential (MT)	9140292		Average width of area recommended for mineral concession (in meters )	80	
Annual Deposition	Average width of area recommended for mineral concession (in meters)	83			Sand (MT)	5996738	on of Sindh River	Length of area recommended for mineral concession (in Kilometer)	115	
	Length of area recommended for mineral concession (in Kilometer)	115			Bajari(MT)	1102024	Annual Deposition of Sindh River	Portion of River/Stream Recommended for Minerals Concession	Start of lease to end of lease	
	Portion of River/Stream Recommended for Minerals Concession	From Downstream of Confluence with tons River Sind in Bhind Madhya pradesh	Note - Considering the density of river bed material to be 1.40 f/Cm3	Mineral Potential	Boulder (MT)	2041530		River/Stream	Sindh River	Total For District
	an O	н				<u> </u>		Sr.NO	-	THE CONTRACT
			Stat	e Le	vel	MIG	nment	Impact	1	夏

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/Proposed Existing /Propose d Existing Existing/Proposed Total Mineral to be mined (MT) Quantit y MT / Year Total Reserve (MT) Quantity Tonnes/Annum Size (Ha) De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed) Geolocation Village M-Sand Plants: (existing & proposed) Z Ī Tehsil Village ž District Location District District | Tehsil Area Reservol r / Dams Maintain / Controlle d by State Govt. / PSU etc. Sy. No Owner Name of Reservoi r /Dams Plant Name Owner

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		Existing / Proposed	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	
		Mineral to be mined (Sand/ E Bajri/ RBM etc.)	Sand		-		+	Sand	Sand	Sand	Sand	Sand	Sand Ex									
		Total excavation in Tonnes /Annum considering digging depth max as 3 meters	86800	45360	25200	91000	21067	60480	49280	22400	50400	156800	113400	130900	40194	256004	91280	65694	73080	74900	170900	
	Proposed)	Mining leases within 500 meters (if yes cluster area)	Yes	Yes	No	No	Yes	ON	Yes	No	Yes											
ANNEXURE-II	Leases (existing &	Distance from Forest Area (in KM)	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	
AN	List of potential Mining Leases (existing & Proposed)	Distance (in KM) from PA/BR/WC/	•		•		•	•				: <b>*</b>		·		•	•			-		
	-	Area (in Ha)	6	ĸ	3	10	1.672	4	2	2	4	17.17	15.21	17.65	3.19	23.81	6	24.9	4	*	11.17	
		Lease Detalls	Ajeeta	Bacchreta	Barethíraj	Gírwasa Niveen	Girwasa Puraní	Guríra	Kaccharghat	Lagdua	Lilwari-1	Lilwari-2	Matiyawall-2	Matiyawali-3	Sanduri	Ajnaar 1	AJnaar 2	Baddettar	Badera	Baretikhurd-2	Bharolikalan	
		River Details	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	
		N Š	1	2	м	4	22	9	~	œ	6	10	11	12	13	14	15	16	17	18	15 C	1

State Level Environment Impact

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h Dhaur-2 h Goram 1420 Kharoli h Kheriyasindh h Matiyawali-1 h Baretikhurd-1 h Wisawali h Sadha Sadha Raundh Madeyan - 2 h Mahayar 3 h Mahayar 3	h Dhaur-2  h Goram 1420  Kharoli  h Matiyawali-1  h Matiyawali-1  h Matiyawali-1  Baretikhurd-1  Chandrawali  Sadhu  Sadhu  Bhapar  Coram 1472  Sijroli  Sijroli  Niwsai 534-2  Niwsai 1334-2  Niwsai 1434-2  Niwsai 1444-2  Niwsai 1434-2  Niwsai 143	21	22	23	24	25	26	27	. 28	29	30	3.1	32	33	34	35	36	37	38	39	0‡	: 41	42	ξ Ψ	1
1 1 1 2 2 2 2 2 2 2 3 2 3 3 3 3 3 3 3 3	11.68 15.85 10 19 4 4 3 14.71 2.97 13.51 7 5.975 5.975 7 7 7 7 7 7 7 8.94 8.94 5.976 13.51 13.51 7 7 7 7 8.94 4.00 13.34 4.00 5.00 19.00 24.40	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindb
15.85 10 10 19 4 4 4 3 14.71 2.97 13.51 7 7 7 7 7 5.975 13.51 7 7 7 7 7 7 7 7 7 7 7 7 7		Dhaur-2	Dhaur-3	Goram 1420	Kharolí	Kheriyasindh	Madori	Matiyawali-1	Bacchroli	Baretikhurd-1	Bharolikhurd	Chandrawali	Dubka	Musawali	Sadha	Bhapar	Goram 1472	Sijroli	Dochra		Mahayar 2	Padhora-1	Niwsai 534-2	Nivsai Ridiya-2	Kaundh Madeyan - 1
		11.68	15.85	10	19	14	9	14.71	2.97	13	8.94	5.975	13.51	7	ĸ	2.63	7.78	1.98	4.00	13.34	4.00	5.00	19.00	24.40	16.72
More than 500		Yes	Yes	Yes	Yes		No	Yes	ON	Yes	Yes	Yes	Yes	Yes	Yes	o N	Yes	No	ON	Yes	Yes	Yes	Yes	Yes	Yes
	Yes	46234	54600	99400	177100	65184	60760	77014	50400	163800	88813	50533	241710	147000	42000	37800	65352	42000	36400	112056	60200	64400	00656	179200	135408
Yes  Yes  No  No  No  No  No  No  No  No  No  N		Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
0         Yes         54600           0         Yes         54600           0         Yes         99400           0         Yes         177100           0         Yes         65184           0         60760         5           0         77014         5           0         77014         5           0         77014         5           0         77014         5           0         50400         5           0         77014         5           0         77014         5           0         77014         5           0         50400         5           0         88813         5           0         763         147000         5           0         865352         5         5           0         86200         5         64400         5           0         765         644400         5           0         765         644400         5           0         765         179200         5           0         765         179200         5	\$ \$46234 \$ \$54600 \$ 177100 \$ 177100 \$ 65184 \$ 66760 \$ 50400 \$ 163800 \$ 50533 \$ 50533 \$ 50533 \$ 50533 \$ 50533 \$ 50533 \$ 50533 \$ 65352 \$ 65352 \$ 65352 \$ 65350 \$ 66200 \$	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Existing	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed

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Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
25900	93240	16870	54600	51030	105000	75600	103866	79464	100800	86800	177257	169176	42840	53550	36862	19656	27276	22680	37800	107715	47880	33600
Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No							
More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500
			<b>3</b>					£	•			*		A#A		٠		٠	٠.	g		
2.00	13.93	1.70	10.00	4.88	2.00	3.50	24.73	9.46	24.00	10.00	21.10	20.14	4.00	12.75	9.75	7.06	7.22	4.90	10.00	14.25	19.00	4.00
Nivsai Ridiya-3	Kaundh Madeyan - 3	Kheira Shyampura-1	Bahadurpura	Muratpura	Mahayar	Bilav	Dahema 3	Mangarh	Dahema 1	Mehanda	Virauna	Nivsai Ridiya-1	Attrsuma	Dahema 2	Khroshyamupura-2	Khroshyamupura-3	Khroshyamupura-4	Mehanda	Padhora -2	Remja	Nivsai 534-3	Baghali Bhadurpura
Pludh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh
940	47	<del>4</del> 8	49	20	51	52	53	54	55	56	57	58	59	09	61	62	63	64	65	99	1	100

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Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
Sand	Sand	Sand	Sand	Sand	Sand	Sand
12172	67200	71306	46019	52290	98811	33600
N <sub>o</sub>	No	No	No	o <sub>N</sub>	No.	No
More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500
			,			
3.22	4.00	23.58	10.96	4.15	19.77	4.00
Larol	Dwar	Hilgawan	Indurkti	Jakhmoli	Kakhara	Ojhaghat
Sindh	Sindh	Sindh	Sindh	Sindh	Sindh	Sindh
69	70	71	72	73	74	7.5

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E-5, Arera Colony, Bhopal (M.P.)

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		C		NNEXURE III uous Cluster details el	uster		
River Name	Cluster	Lease No	Location Rivebad/Patta land	Village	Area (in Ha)	Total Excavation (CUM)	Total Excavation (TON)
Sindh		1	River Bed	Attrsuma	14	69600	97440
Jindij	1	1	River Bed	Bahadurpura	14	0,000	37.110
Sindh	2	1	River Bed	Padhora-1	15	73000	102200
		1	River Bed	Padhora-2	1.7		
		1	River Bed	Mehanda			
		1	River Bed	Mehanda			
Sindh	3	1	River Bed	Kheira Shyampura 1	46.63	150103	210144
1	-7	1	River Bed	Khroshyamupura-2	10.00	100100	
1		1	River Bed	Khroshyamupura-3			
	24		Rece of the	Khroshyammura 4	1		
		1	River Bed	Musawali			
Sindh	4	1	River Bed .	Reinja	24.78	235939	330315
		1	River Bed	Bilav			
1		1	River Bed	Dahema 1			
		1	River Bed	Dahema 2			
		1	River Bed	Dahema 3	a 3 alan		
		1	River Bed	Bharolikalan			
		1	River Bed	Mahayar · ·			
Ĭ		1	River Bed	Mahayar 2	75		
	(W)	Tours en	Goram 1420				
indh	5	1	River Bed	Goram 1472	212.77	1095338	1533473
1		1	River Bed	Bharolikhurd			
1		1	River Bed	Nivsai Ridiya-1			
		1	River Bed	Nivsai Ridiya-2			-
-		1	River Bed	Nivsai Ridiya-3			
1		1	River Bed	Niwsai 534-1	i		
		1	River Bed	Niwsai 534-2			
		1	River Bed	Nivsai 534-3			
		1	River Bed	Kaundh Madayan - 1			
į		1	River Bed	Kaundh Madayan- 2	Ì		
		1	River Bed	Kaundh Madayan- 3			
ndh	6	1	River Bed	Mangarh	86.45	518620	726068
		1	River Bed	Ajecta			
		1	River Bed	Kharoli			
		1	River Bed	Sadha			
. Jt.	7	1	River Bed	Baddettar	30.00	70.00	
ndh	7	1	River Bed	Sanduri	28.09	75634	105888
· · · · · · · · · · · · · · · · · · ·	***************************************	1	River Bed	Bacchreta			
, L		1	River Bed	Virauna			
ndh 🙏	8	1	River Bed	Barethiraj	109.182	801872	1122621
		1	River Bed	Baretikhurd I			

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		1	River Bed	Baretikhurd-2			
	4	1	River Bed	Badera			
		1	River Bed	Dubka			
ii G		1	River Bed	Matiyawali-1			
		1	River Bed	Matiyawali-2		1	
		1	River Bed	Matiyawali-3			
Sindh	9	11	River Ded	Dhaur-1		114838	160773
		1	River Bed	Dhaur-2	45.76		
		1	River Bed	Dhaur-3			
Sindh	10	1	River Bed	Lagdua	3.672	31048	43467
-		1	River Bed	Girwasa Purani			
Sindh	11	1	River Bed	Lilwari 1	27.145	184095	257733
		1	River Bed	Lilwari-2			
		1	River Bed	Chandrawali			
Sindh	12	1	River Bed	Ajnaar 1	22.01	240050	247204
Sindh	<del> </del>	1	River Bed	Ajnaar 2	32.81	248060	347284
	without cluster	1	River Bed	Dochra	10.957	26,000	36400
Sindh	without cluster	1	River Bed	Muratpura	5	36,450	51030
Sindh	without cluster	1	River Bed	Baghali Bhadurpura	4	24,000	33600
Sindh	without cluster	1	River Bed	Larol	4	8,694	12172
Sindh	without cluster	1	River Bed	Dwar	2.63	48,000	67200
Sindh	without cluster	1	River Bed	Hilgawan	2.97	50,933	71306
Sindh	without cluster	1	River Bed	Indurkhi	4	32,871	46019
Sindh	without cluster	1	River Bed	Jakhmoli	23.58	37,350	52290
Sindh	without cluster	1	River Bed	Kakhara	4	70,579	98811
Sindh	without cluster	1	River Bed	Ojhaghat	4.15	24,000	33600
Sindh	without cluster	1	River Bed	Bacchroli	3.22	36,000	50400
Sindh	without cluster	1	River Bed	Bhapar	4.88	27,000	37800
Sindh	Without cluster	1	River Bed	Girwasa Naveen	19.77	65,000	
Sindh	without cluster	1	River Bed	Gurira	4		91000
Sindh	without cluster	1	River Bed	Kaccharghat	3	43,200	60480
Sindh	without cluster	1	River Bed	Kheriyasindh		35,200	49280
Sindh	without cluster	1	River Bed	Madori	4	46,560	65184
Sindh	without cluster	1	River Bed	100000000000000000000000000000000000000	10	43,400	60760
	Antioot clostel.	4	Wisel Bed	Sijroli	7.98	30,000	4200

	1	1	2. Contigu	ious Clusters:			
River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed)/ Patta Land)	Distance between clusters	Village	Area of Cluster (Ha)
				Nil			L

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# CLUSTER SCENARIO OF AUCTION SAND MINES

Sand is the major requirement for construction industry. The mining of Sand comes under minor mineral mining. As per EIA Notification 2006 and subsequent amendments Environment clearance is mandatory for the entire mining project.

As per the said notification the activities has been categorized as Category B1&B2. As per MoEF& CC notification S.O. 141(E) dt.15th January, 2016 "A cluster shall be formed when the distance between the peripheries of one lease is less than 500 m from the periphery of other lease in a homogeneous mineral area".

Cluster of sand mines. Cluster consists of Lagdua & Girvasa old sand quarry located within a lateral distance of 500m from each other. This cluster comes under Lahar Tehsil of Bhind District, lease areas covering a total mineralised area of 3.672 Hectares located in village/Lagdua & Girvasa under Lahar Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi, the 14th August 2018 (Fig.01) Comes under total Cluster area of mines leases less than 5 ha has a Category B2

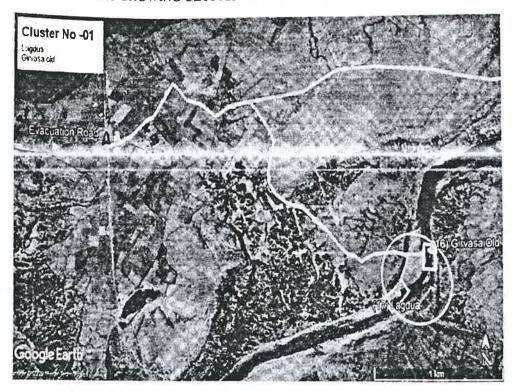
Cluster	Sr No.	Name of Mine	Area ha	Total Cluster area	Block
1	1	Lagdua	2.000		Block-2
	2	Girvasa Old	1.672	3.672	Block-2

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# SATELLITE MAP SHOWING CLUSTER -01 LEASE AREA



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# CLUSTER SCENARIO OF AUCTION SAND MINES

Sand is the major requirement for construction industry. The mining of Sand comes under minor mineral mining. As per EIA Notification 2006 and subsequent amendments Environment clearance is mandatory for the entire mining project.

As per the said notification the activities has been categorized as Category B1&B2. As per MoEF& CC notification S.O. 141(E) dt.15th January, 2016 "A cluster shall be formed when the distance between the peripheries of one lease is less than 500 m from the periphery of other lease in a homogeneous mineral area".

Cluster of sand mines. Cluster- consists of Lilwari area 4.00% lilwari area 17.170 ha & Chandawali 5.975ha sand quarry located within a lateral distance of 500m from each other. This cluster comes under Lahar Tehsil of Bhind District, lease areas covering a total mineralised area of 27.145 Hectares located in village/Lilwari, Chandawali under Lahar Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi, the 14th August 2018 (Fig.01) Comes under total Cluster area of mine leases of area greater or equal 25 ha with individual lease size less than or equal to 100 ha has a Category B1

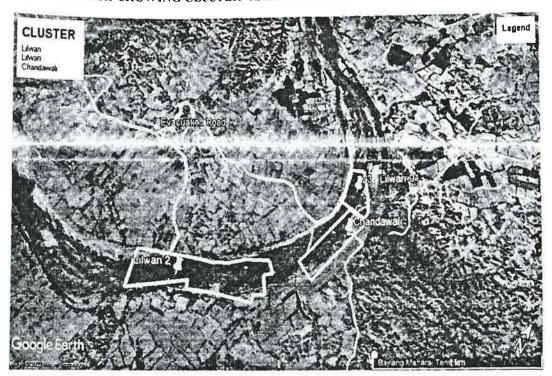
Cluster	Sr No.	Name of Mine	Area ha	Total Cluster area	Block
	1	Lilwar	4,000		Block-2
2	2	Lilwari 2	17.170		Block-2
	3	Chandawali	5.975	27.145	Block-2



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### SATELLITE MAP SHOWING CLUSTER -02 LEASE AREA





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Sand is the major requirement for construction industry. The mining of Sand comes under minor mineral mining. As per EIA Notification 2006 and subsequent amendments Environment clearance is mandatory for the entire mining project.

As per the said notification the activities has been categorized as Category B1&B2. As per MoEF& CC notification S.O. 141(E) dt.15th January, 2016 "A cluster shall be formed when the distance between the peripheries of one lease is less than 500 m from the periphery of other lease in a homogeneous mineral area".

Cluster of sand mines. Cluster consists of Ajnar 01 Area 23.810ha & Ajnar 02 Area 9ha sand quarry located within a lateral distance of 500m from each other. This cluster comes under Lahar Tehsil of Bhind District, lease areas covering a total mineralised area of 32.180 riectares located in visioge Aginal order Lahar Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi ,the 14th August 2018 (Fig.01) Comes under total Cluster area of mine leases of area greater or equal 25 ha with individual lease size less than or equal to 100 ha has a Category

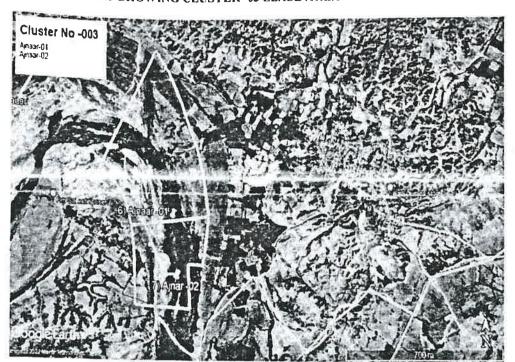
Cluster	Sr No.	Name of Mine	Area ha	Total Cluster area	Block
3	1	Ajnar -1	23.810		Block-2
	2	Ajnar - 2	9.000	32.810	Block-2

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## SATELLITE MAP SHOWING CLUSTER -03 LEASE AREA





Sand is the major requirement for construction industry. The mining of Sand comes under minor mineral mining. As per EIA Notification 2006 and subsequent amendments Environment clearance is mandatory for the entire mining project.

As per the said notification the activities has been categorized as Category B1&B2. As per MoEF& CC notification S.O. 141(E) dt.15th January, 2016 "A cluster shall be formed when the distance between the peripheries of one lease is less than 500 m from the periphery of other lease in a homogeneous mineral area".

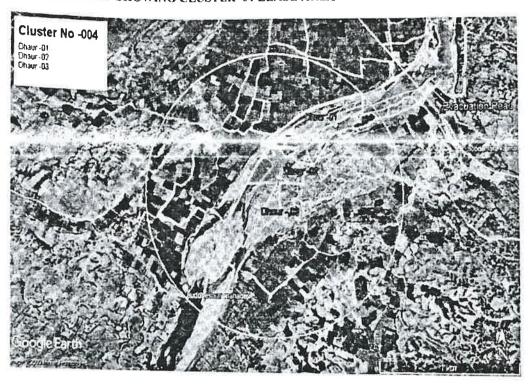
Cluster of sand mines. Cluster consists of Dhaur 1 Area 18.230 & Dhaur 02 Area 11.680 ha & Dhaur 03 Area 15.850ha sand quarry located within a lateral distance of 500m from each other. This cluster comes under Mihona Tehsil of Bhind District, lease areas covering a total mineralised area of 45.760 Hectares located in village/Dhour under Mihona Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi, the 14th August 2018 (Fig.01) Comes under total Cluster area of mine leases of area greater or equal 25 ha with individual lease size less than or equal to 100 ha has a Category B1

Cluster	Sr No.	Name of Mine	Area ba	Total Cluster area	Block
	1	Dhaur - 1	18.230		Block-2
4	2	Dhaur - 2	11.680		Block-2
	3	Dhaur - 3	15.850	45.760	Block-2



### SATELLITE MAP SHOWING CLUSTER -04 LEASE AREA





Sand is the major requirement for construction industry. The mining of Sand comes under minor mineral mining. As per EIA Notification 2006 and subsequent amendments Environment clearance is mandatory for the entire mining project.

As per the said notification the activities has been categorized as Category B1&B2. As per MoEF& CC notification S.O. 141(E) dt.15th January, 2016 "A cluster shall be formed when the distance between the peripheries of one lease is less than 500 m from the periphery of other lease in a homogeneous mineral area".

Cluster of sand mines. Cluster-consists of Badettar Area 24.900 & Sanduri Area 3.19 ha sand quarry located within a lateral distance of 500m from each other. This cluster comes under Mihona & Mehgaon Tehsil of Bhind District, lease areas covering a total mineralised area of 28.090 Hectares located in village/ Badettar & Sanduri under Mihona & Mehgaon Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi, the 14th August 2018 (Fig.01) Comes under total Cluster area of mine leases of area greater or equal 25 ha with individual lease size less than or equal to 100 ha has a Category

B1

Cluster	Sr No.	Name of Mine	Area ha	Total Cluster area	Block
5	1	Badettar	24.900	20.000	Block-2
	2	Sanduri	3.190	28.090	Block-

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Cluster of sand mines. Cluster consists of Matiyawali-02 area 15 210 ha, Matiyawali-03 area 17.650 ha, Bachhretha area 3ha, Badera area 04 ha, Barethikhurd-01 area 13ha, Barethikhurd-02 area 04ha, Kheriyasindh area 04ha & Virauna area 21.102ha, Dubka 13.51ha sand quarry located within a lateral distance of 500m from each other. This cluster comes under Mehgaon & Roun Tehsil of Bhind District, lease areas covering a total mineralised area of 95.427 Hectares located in village/Matiyawali, Bachhretha, Badera, Barethikhurd, Kheriyasindh & Virauna under Mehgaon & Roun Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi, the 14th August 2018 (Fig.01) Comes under total Cluster area of mine leases of area greater or equal 25 ha with individual lease size less than or equal to 100 ha has a Category

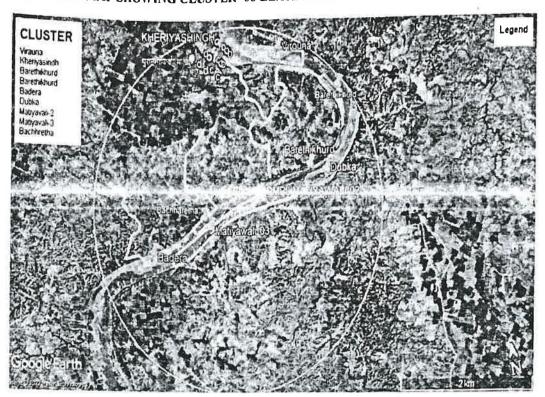
Cluster Sr No.	Sr No.	Name of Mine	Area ha	Total Cluster area	Block
	1	Virauna	21.102		Block-1
6 5 6 7 8	2	Kheriyasindh	4	1	Block-2
	3	Barethikhurd	13	1	Block-2
	4	Barethikhurd	4	7	Block-2
	5	Badera	4	95.427	Block-2
	6	Dubka	13,51		Block-2
	7	Matiyavali-2	15.21		Block-2
	8	Matiyavali-3	17.65		Block-2
	9	Bachhretha	3		Block-2

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### SATELLITE MAP SHOWING CLUSTER -06 LEASE AREA



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Sand is the major requirement for construction industry. The mining of Sand comes under minor mineral mining. As per EIA Notification 2006 and subsequent amendments Environment clearance is mandatory for the entire mining project.

As per the said notification the activities has been categorized as Category B1&B2. As per MoEF& CC notification S.O. 141(E) dt.15th January, 2016 "A cluster shall be formed when the distance between the peripheries of one lease is less than 500 m from the periphery of other lease in a homogeneous mineral area".

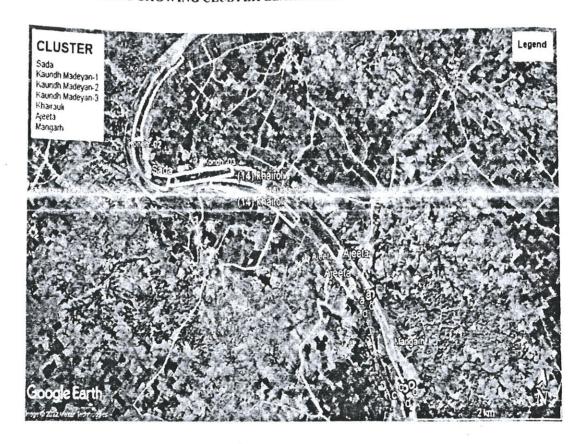
Cluster of sand mines. Cluster consists of Mangarh-9.460 ha, Kaundh madeyan-01 16.720 ha, Kaundh madeyan-02-13.340 ha, Kaundh madeyan-03-13.930 ha Ajeeta-9ha, & Khairoli-19ha, Sada 5 00ha sand quarry located within a lateral distance of 500m from each other. This cluster comes under Roun & Mehgaon Tehsil of Bhind District, lease areas covering a total mineralised area of 86.45 Hectares located in village/Mangarh, kaundh, Ajeeta & Khairoli Sada under Roun & Mehgaon Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi, the 14<sup>th</sup> August 2018 (Fig.01) Comes under total Cluster area of mine leases of area greater or equal 25 ha with individual lease size less than or equal to 100 ha has a Category

Cluster	Sr No.	Name of Mine	Area ha	Total Cluster area	Block
	1	Mangarh	9.460		Block-1
	2	Ajeeta	9.000		Block-2
	3	Khairoli	19.000		Block-2
7	4	KONDH-01	16.720	86.45	Block-1
	5	KONDH - 02	13.340		Block-1
2	6	KONDH-03	13.930		Block-1
	7	Sada	5.00		Block-2



## SATELLITE MAP SHOWING CLUSTER LEASE AREA





Sand is the major requirement for construction industry. The mining of Sand comes under minor mineral mining. As per EIA Notification 2006 and subsequent amendments Environment clearance is mandatory for the entire mining project.

As per the said notification the activities has been categorized as Category B1&B2. As per MoEF& CC notification S.O. 141(E) dt.15th January, 2016 "A cluster shall be formed when the distance between the peripheries of one lease is less than 500 m from the periphery of other lease in a homogeneous mineral area".

Cluster of sand mines, consists of Dahema 3-24.73 ha, Bharulikala 11.17 ha, Dahema 2- 12.75 ha, Mahayar 5ha, Mahayar 4ha, Goram 1420-10ha, Goram 1472- 7.780 ha, Bharaulikhurd 10.57ha, Nivsai Ridiya 1-20.14ha, Nivsai Ridiya-2 Nivsai Ridiya-3 -2ha, Nivsai 534-01-19.860. & Nivsai 534-02 - 19ha sand quarry located within a lateral distance of 500m from each other. This cluster comes under Roun & Mehgaon Tehsil of Bhind District, lease areas covering a total Mineralised area of 214.4 Hectares located in village/Dahema, Bharaulikala, Mahayar, Bharaulikhurd Nivasai, Goram under Roun & Mehgaon Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi ,the 14<sup>th</sup> August 2018 cluster -08 (Fig.01) Comes under Cluster of any size with any of the individual lease greater than 100 ha has a Category

Cluster	Sr No.	Name of Mine	Area ha	Total Cluster	Block
	J	Dahema -3	24.73		Block- I
	2	Bharaulikala	11.17	A COLUMN TO THE	Block- 2
	3 .	Dahema -2	12.75	Victoria de la constantina del constantina de la constantina de la constantina del constantina de la constantina de la constantina del	Block-1
8	4	Dahema-I	24	B.11	Block-1
	5	Mahayar	5		Block- I
	6	Mahayar	4	212.77	Block- I
	7	Goram 1420	10		Block- 2
	8	Goram 1472	7.78		Block-2
and the second and th	9	Bharaulikhurd	8.94	Di Trippetti Ci	Block-2
-	10	Nivsai Ridiya-I	20.14		Block-1
- Control of the Cont	11	Nivsai Ridiya-2	24.4	Vicinities and	Block- 1
The second of th	12	Nivsai Ridiya-3	2	American see	Block- I
	13	Nivsai -534-1	19.86	Special section of the section of th	Block- I
	14	Nivsai -534-2	19	AMPACATION CONTRACTOR AND CONTRACTOR	Block- 1
	15	Nivsai -534-3	19	de de la constante de la const	Block- I

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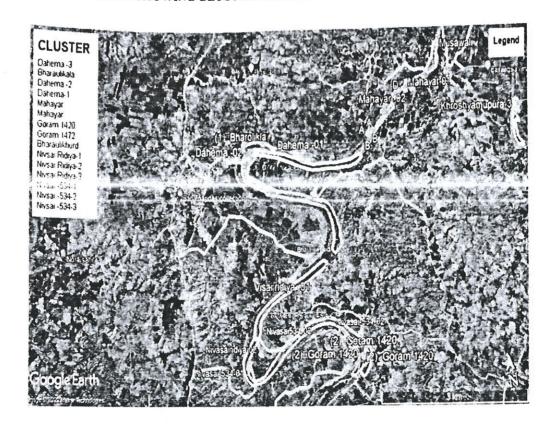
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### SATELLITE MAP SHOWING CLUSTER LEASE AREA





Sand is the major requirement for construction industry. The mining of Sand comes under minor mineral mining. As per EIA Notification 2006 and subsequent amendments Environment clearance is mandatory for the entire mining project.

As per the said notification the activities has been categorized as Category B1&B2. As per MoEF& CC notification S.O. 141(E) dt.15th January, 2016 "A cluster shall be formed when the distance between the peripheries of one lease is less than 500 m from the periphery of other lease in a homogeneous mineral area".

Cluster of sand mines consists of Padhora-01 Padhora-02 sand quarry located within a lateral distance of 500m from each other. This cluster comes under Roun Tehsil of Bhind District, lease areas covering a total Mineralised area of 15 Hectares located in village/padhora under Roun Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi, the 14<sup>th</sup> August 2018 cluster Comes under total Cluster area of mine leases of area greater or equal 25 ha with individual lease size less than or equal to 100 ha has a Category

Cluster	Sr No.	Name of Mine	Area ha	Total Cluster	Block
10	1	Padhora -1	5.000		Block-1
2		Padhora -2	10.000	15.000	Block-1

स्तिपार का निर्माण के किया है। जिस्सा के किया है। जिया है। जिस्सा के किया है। जिया है। जिस्स के किया है। जिस्सा के किया है। जिस्सा के किया है। जि

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# SATELLITE MAP SHOWING CLUSTER LEASE AREA





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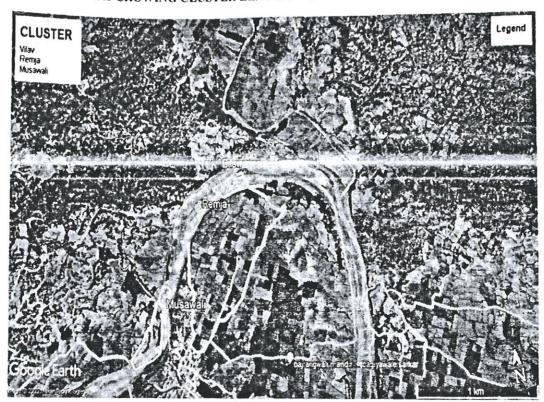
Cluster of sand mines. Clusterconsists of Musawali Vilav, Remja sand quarry located within a lateral distance of 500m from each other. This cluster comes under Mehgaon Bhind & Roun Tehsil of Bhind District, lease areas covering a total mineralised area of 24.748 Hectares located in village/Vilav Remja & Musawali under Bhind, Roun & Mehgaon Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi, the 14<sup>th</sup> August 2018 cluster -11 (Fig.01) Comes under total Cluster area of mine leases of area greater or equal 25 ha with individual lease size less than or equal to 100 ha has a Category B1

Cluster	Sr No.	Name of Mine	Area ha	Total Cluster area	Block
	1	Vilav	3.50		Block-1
11	2	Remja	14.248	24.748	Block- 1
	3	Musawali	7		Block- 2



### SATELLITE MAP SHOWING CLUSTER LEASE AREA





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Cluster of sand mines. Cluster- consists of Attrasuma Bahadurpura sand quarry located within a lateral distance of 500m from each other. This cluster comes under Bhind & Roun Tensii of Bhind District, lease areas covering a total mineralised area of 14.00 Hectares located in village/Attrasuma, Bahadurpura under Bhind & Roun Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi, the 14th August 2018 (Fig.01) Comes under total Cluster area of mine leases of area greater or equal 25 ha with individual lease size less than or equal to 100 ha has a Category

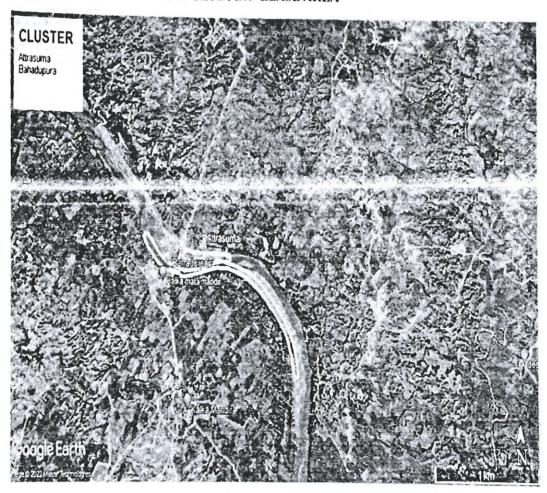
Cluster	Sr No.	Name of Mine	Area ha	Total Cluster	Block
12	1	Attrasuma	4.000	The second secon	Block-1
	2	Bahadupura	10,000	14.000	Block-1

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## SATELLITE MAP SHOWING CLUSTER -LEASE AREA



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Sand is the major requirement for construction industry. The mining of Sand comes under minor mineral mining. As per EIA Notification 2006 and subsequent amendments Environment clearance is mandatory for the entire mining project.

As per the said notification the activities has been categorized as Category B1&B2. As per MoEF& CC notification S.O. 141(E) dt.15th January, 2016 "A cluster shall be formed when the distance between the peripheries of one lease is less than 500 m from the periphery of other lease in a homogeneous mineral

Cluster of sand mines Cluster- consists of Menhda, Menhda Kherashympura 1, Kherashympura 2, Kherashympura 3, Kherashympura 4 sand quarry located within a lateral distance of 500m from each other. This cluster comes under Bhind & Roun Tehsil of Bhind District, lease areas covering a total mineralised area of 40.63 Hectares located in village/Menhda, & Kherashyampura under Roun & Bhind Tehsil of District Bhind

As per Notification Ministry of environment, forest and climate change new Delhi, the 14th August 2018 (Fig.01) Comes under total Cluster area of mine leases of area greater or equal 25 ha with individual lease size less than or equal to 100 ha has a Category B1

Cluster Sr No.	Name of Mine	Area ha	Total Cluster	Remark	
	1	Menhda	10	and the second s	Block-1
2 3	Menhda	4.9		Block-I	
	Kherashyampura-1	1.702		Block-1	
13	4	Kherashyampura-2	9.752	40.63	Block-1
	5	Kherashyampura -3	7.06		Block-1
6.	Kherashyampura -4	7.216		Block-1	

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					ANNUXURE -IV	N.				
				Transportation	Routes for	Transportation Routes for individual leases				
Sr no	Lease No	Transportation Route No	Number of tippers /day of lease	Number of tippers / day of all the lease on route	Length of Rout e in KM	Type of Road (Black Topped/ unpav ed)	Rec	Recommendation for road (Black Topped/ unpaved)	The road will be Constructed by Govt/ Lease	Route Map & Location
1	Ajeeta		16	16	2.00	(Black, Topped, Unpaved	+-	Black, Topped	Govt	Enclosed
2	Bacchreta	-	82	æ	1.60	(Black, Topped, Unpaved	+	Topped	Govt	Enclosed
æ	Barethiraj	-	5	8	0.80	(Black, Topped, Unpaved	-		Govt	Enclosed
4	Girwasa Naveen	1	17	17	1.79	(Black, Topped, Unpaved	Black	1	Govt	Enclosed
5	Girwasa Purani	I	4	4	2.12	(Black, Topped, Unpaved	Black	Topped	Govt	Enclosed
9	Gurira	1	11	11	2.23	(Black, Topped, Unpaved	Black,	Topped	Govt	Enclosed
7	Kaccharghat	-	6	6	4.00	(Black, Topped, Unpaved	Black,	Topped	Govt	Enclosed
8	Lagdua	-	4	4	2.12	(Black, Topped, Unpaved	Black,	Topped	Govt	Enclosed
6	Lilwari-1	_	o	6	7.00	(Black, Topped, Unpaved	Black,	Topped	Govt	Enclosed
10	Lilwari-2		29	29	0.94	(Black, Topped, Unpaved	Black,	Black, Topped	Govt	Enclosed
11	Matiyawali-2	1	21	21	1.80	(Black, Topped, Unpaved	Black,	Black, Topped	Govt	Enclosed
12	Matiyawali-3	-	24	24	0.65	(Black, Topped, Unpaved	Black,	Black, Topped	Govt	Enclosed
13	Sanduri		7	7	4.40	(Black, Topped, Unpaved	Black,	1		Enclosed
14	Ajnaar 1	-	48	48	4.90	Black, Topped, Unpaved	Black,	1	1	Enclosed
15	Ajnaar 2	-	17	17	4.90	(Black, Topped, Unpaved	Black,		1	Enclosed
16	Baddettar	-	12	12	2.20	Black, Topped, Unpaved	Black, opped	1		Enclosed
17	Badera		14	14	1.60 (	(Black, Topped, Unpaved		1	1	Enclosed
10	Raretikhurd-2		14	14	1.80	(Black, Topped, Unpaved	Black, opped	1	1	Enclosed
10	Bharolikalan		32	32	2.58	(Black, Topped, Unpaved	Black, Topped	1		Enclosed
13	Dital Vilhaian		11	11	1.55	(Black, Topped, Unpaved	Black, Topped	+		Enclosed
70	Duaur-1			6	0.64	(Black, Topped, Unpaved	Black, Topped	1	Govt	Enclosed
7/2	Dhaur-2		10	10	1.90	(Black, Topped, Unpaved	Black, Topped		Govt	Enclosed
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24	Kharoli	-	33	33	4.00	(Black, Topped, Unpaved	-	***************************************	Calciosed
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28	Bacchroli	-	0	4	3.38	(Black, Topped, Unpaved	-	Govt	Enclosed
29	Baretikhurd-1	1	200		2.88	(Black, lopped, Unpaved	-	Govt	Enclosed
30	Bharolikhurd	-	55	300	2.00	(Black, Topped, Unpaved	-	Govt	Enclosed
31	Chandrawall			17	7.50	(Black, Topped, Unpaved	-	Govt	Enclosed
32	Dubka	-	AR	45	00.7	(Black, Topped, Unpaved	-	Govt	Enclosed
33	Musawali			Ç   E	1.90	(Black, Topped, Unpaved		Govt	Enclosed
3 2	Cadha	-	//	7.7	1.50	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
70	Jaulla 5)	-	00	88	1.60	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
35	Bhapar	_	7	7	1.00	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
36	Goram 1472	-	12	12	5.00	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
37	Sljroll	1	∞	8	0.48	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
38	Dochra	1	7	7	0.65	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
39	Kaundh - 2	-	21	21	2.00	(Black, Topped, Unpaved	Black, Topped	Govt	Fuctored
4	Mahayar 2		11	11	2.30	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
41	Padhora-1	-	12	12	2.17	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
42	Niwsai 534-2		18	18	4.00	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
43	Nivsal Ridlya-2	-	33	33	4.40	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
44	Kaundh - 1	1	25	25	4.50	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
45	Niwsal 534-1	-	31	31	2.00	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
46	Nivsai Ridiya-3	-	5	S	4.40	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
47	Kaundh - 3	-	17	17	3.50	(Black, Topped, Unpaved	Black, Topped	Govt	Fuclosed
48	Kheira Shyampura-1	1	3	က	0:90	1	Black Topped	Sort	Factored
19	Bahadurpura	1	10	10	0.65	-	Black, Topped	Govt	Enclosed
0	Muratpura	1	6	6	2.54	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
7	Mahayar		20	20	3.61		Black, Topped	Govt	Enclosed
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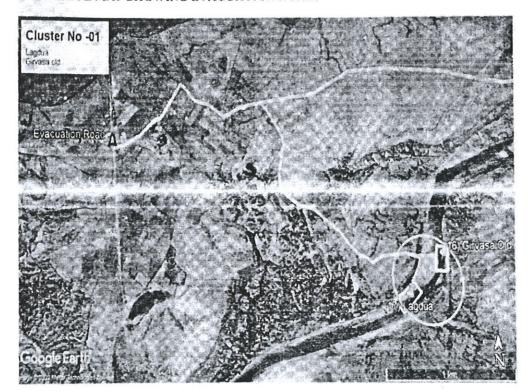
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19   19   3.27 (Black, Topped, Unpaved Black, Topped   Black	52	Bilav	-	14	14	2.00	(Black, Topped, Unpaved	Black, Topped	Govt	Factored
Mangarh         15         15         4.00         (Black, Topped, Unpaved         Bisck, Topped           Mahanda         1         19         2.53         (Black, Topped, Unpaved         Bisck, Topped           Wehanda         1         16         16         0.40         (Black, Topped, Unpaved         Bisck, Topped           Nivsai Ridiya-1         1         31         31         2.50         (Black, Topped, Unpaved         Blick, Topped           Attrsuma         1         3         3         1.40         (Black, Topped, Unpaved         Blick, Topped           Attrsuma         1         3         3         1.40         (Black, Topped, Unpaved         Blick, Topped           Zhroshyamupura-         1         7         7         7         0.60         (Black, Topped, Unpaved         Blick, Topped           Khroshyamupura-         1         4         4         2.30         (Black, Topped, Unpaved         Blick, Topped           Khroshyamupura-         1         5         5         1.80         (Black, Topped, Unpaved         Blick, Topped           Mehanda         1         4         4         1.00         (Black, Topped, Unpaved         Black, Topped           Nosai 534-3         1         2 </td <td>53</td> <td>Dahema 3</td> <td>1</td> <td>19</td> <td>19</td> <td>3.27</td> <td>(Black, Topped, Unpaved</td> <td>-</td> <td>Govt</td> <td>Factored</td>	53	Dahema 3	1	19	19	3.27	(Black, Topped, Unpaved	-	Govt	Factored
Dahema 1         19         19         2.53         (Black, Topped, Unpaved         Black, Topped           Mehanda         1         16         16         0.40         (Black, Topped, Unpaved         Black, Topped           Nivsai Ridiya-1         1         31         31         1.40         (Black, Topped, Unpaved         Black, Topped           Attrsuma         1         8         8         0.31         (Black, Topped, Unpaved         Black, Topped           Attrsuma         1         10         10         3.70         (Black, Topped, Unpaved         Black, Topped           Khroshyamupura-         1         7         7         7         0.60         (Black, Topped, Unpaved         Black, Topped           Khroshyamupura-         1         4         4         2.30         (Black, Topped, Unpaved         Black, Topped           Khroshyamupura-         1         5         5         1.80         (Black, Topped, Unpaved         Black, Topped           Nosal 534-3         1         4         4         1.00         (Black, Topped, Unpaved         Black, Topped           Nosal 534-3         1         2         2         1.00         (Black, Topped, Unpaved         Black, Topped           Larol <td< td=""><td>54</td><td>Mangarh</td><td>-</td><td>15</td><td>15</td><td>4.00</td><td>(Black, Topped, Unpaved</td><td>-</td><td>Govt</td><td>Factored</td></td<>	54	Mangarh	-	15	15	4.00	(Black, Topped, Unpaved	-	Govt	Factored
Wehanda         1         16         16         0.40         (Black, Topped, Unpaved         Biack, Topped           Virauna         1         33         33         1.40         (Black, Topped, Unpaved         Biack, Topped           Attrauma         Attrauma         1         31         3.1         2.50         (Black, Topped, Unpaved         Biack, Topped           Dahema 2         1         10         10         3.70         (Black, Topped, Unpaved         Biack, Topped           Khroshyamupura-         1         7         7         0.60         (Black, Topped, Unpaved         Biack, Topped           Khroshyamupura-         1         4         4         2.30         (Black, Topped, Unpaved         Biack, Topped           Mehanda         1         4         4         2.30         (Black, Topped, Unpaved         Biack, Topped           Remia         1         2         5         5         1.80         (Black, Topped, Unpaved         Biack, Topped           Remia         1         7         7         2.82         (Black, Topped, Unpaved         Biack, Topped           Remia         1         5         5         1.30         (Black, Topped, Unpaved         Biack, Topped           Remia </td <td>55</td> <td>Dahema 1</td> <td>-</td> <td>19</td> <td>19</td> <td>2.53</td> <td>(Black, Topped, Unpaved</td> <td>-</td> <td>Govt</td> <td>Enclosed</td>	55	Dahema 1	-	19	19	2.53	(Black, Topped, Unpaved	-	Govt	Enclosed
Virauna         I         33         33         1.40         (Black, Topped, Unpaved         Brick, Topped           Attrsuma         1         31         2.50         (Black, Topped, Unpaved         Brick, Topped           Dahema 2         1         10         10         3.70         (Black, Topped, Unpaved         Brick, Topped           Xhroshyamupura-         1         7         7         0.60         (Black, Topped, Unpaved         Brick, Topped           Xhroshyamupura-         1         4         4         2.30         (Black, Topped, Unpaved         Brick, Topped           Xhroshyamupura-         1         5         5         1.80         (Black, Topped, Unpaved         Brick, Topped           Akhora-2         1         4         4         2.30         (Black, Topped, Unpaved         Brick, Topped           Padhora-2         1         5         5         1.80         (Black, Topped, Unpaved         Brick, Topped           Remja         1         4         4         1.00         (Black, Topped, Unpaved         Brick, Topped           Remja         1         5         5         1.80         (Black, Topped, Unpaved         Brick, Topped           Remja         1         7         7	95	Mehanda	1	16	16	0.40	(Black, Topped, Unpaved		Govt	Enclosed
Attrsuma         1         31         31         2.50         (Black, Topped, Unpaved Black, Topped Unpaved	57	Viranna	_	33	33	1.40	(Black, Topped, Unpaved	-	Govt	Faciosed
Attrsuma         1         8         8         0.31         (Black, Topped, Unpaved Black, Topped Unpaved Bl	58	Nivsai Ridiya-1	-	31	31	2.50	(Black, Topped, Unpaved	+	Govt	Enclosed
Khroshyamupura-         1         10         10         3.70         (Black, Topped, Unpaved         Black, Topped           Khroshyamupura-         1         7         7         0.60         (Black, Topped, Unpaved         Black, Topped           Khroshyamupura-         1         4         4         2.30         (Black, Topped, Unpaved         Black, Topped           Mehanda         1         4         4         1.00         (Black, Topped, Unpaved         Black, Topped           Mehanda         1         4         4         1.00         (Black, Topped, Unpaved         Black, Topped           Mehanda         1         7         7         2.82         (Black, Topped, Unpaved         Black, Topped           Nivsal Sa+3         1         20         20         1.00         (Black, Topped, Unpaved         Black, Topped           Nivsal Sa+3         1         9         9         3.80         (Black, Topped, Unpaved         Black, Topped           Nivsal Sa+ari         1         2         2         1.13         (Black, Topped, Unpaved         Black, Topped           Dwar         1         2         2         1.13         (Black, Topped, Unpaved         Black, Topped           Hilgawan         1	59	Attrsuma	-	8	8	0.31	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Khroshyamupura-         1         7         7         0.60         (Black, Topped, Unpaved)         Black, Topped           Shroshyamupura-         1         4         4         2.30         (Black, Topped, Unpaved)         Black, Topped           Akhroshyamupura-         1         5         5         1.80         (Black, Topped, Unpaved)         Black, Topped           Mehanda         1         4         4         1.00         (Black, Topped, Unpaved)         Black, Topped           Padhora-2         1         7         7         2.82         (Black, Topped, Unpaved)         Black, Topped           Nivsal S34-3         1         20         20         1.00         (Black, Topped, Unpaved)         Black, Topped           Baghali         1         5         3.80         (Black, Topped, Unpaved)         Black, Topped           Larol         1         2         2         1.13         (Black, Topped, Unpaved)         Black, Topped           Dwar         1         1         2         2         1.13         (Black, Topped, Unpaved)         Black, Topped           Higawan         1         1         1         4.97         (Black, Topped, Unpaved)         Black, Topped           Higawan         1	9	Dahema 2	1	10	10	3.70	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Khroshyamupura-         1         4         4         2.30         (Black, Topped, Unpaved Black, Topped Unpaved Black, Topped Bla	61	Khroshyamupura- 2		7	7	0.60	(Black, Topped, Unpaved	-	Govt	Enclosed
Khroshyamupura-         1         5         5         1.80         (Black, Topped, Unpaved Black, Topped Black, Topped Unpaved Black, Topped Black, Topped Black, Topped Black, Topped Unpaved Black, Topped Black, Topped Black, Topped Black, Topped Black, Topped Unpaved Black, Topped Black, Topped Black, Topped Black, Topped Black, Topped Black, Topped Unpaved Black, Topped Black, Topped Black, Topped Black, Topped Unpaved Black, Topped Black, Topped Black, Topped Black, Topped Unpaved Black, Topped Black, Topped Black, Topped Black, Topped Unpaved Black, Topped Black, Topped Black, Topped Unpaved Black, Topped Black, Topped Black, Topped Black, Topped Black, Topped Unpaved Black, Topped Black, Topped Unpaved Black, Topped Black, Topped Black, Topped Black, Topped Unpaved Unpaved Black, Topped Unpaved Unpaved Unpaved	62	Khroshyamupura- 3	-	4	4	2.30	(Black, Topped, Unpaved		Govt	Enclosed
Mehanda         1         4         4         4         1.00         (Black, Topped, Unpaved         Black, Topped           Padhora-2         1         7         7         2.82         (Black, Topped, Unpaved         Black, Topped           Remja         1         20         20         1.00         (Black, Topped, Unpaved         Black, Topped           Nivsal 534-3         1         9         9         3.80         (Black, Topped, Unpaved         Black, Topped           Baghali         1         6         6         0.77         (Black, Topped, Unpaved         Black, Topped           Larol         1         13         13         1.00         (Black, Topped, Unpaved         Black, Topped           Hilgawan         1         13         13         4.97         (Black, Topped, Unpaved         Black, Topped           Indurkhi         1         9         9         4.20         (Black, Topped, Unpaved         Black, Topped           Iakhmoli         1         10         10         2.81         (Black, Topped, Unpaved         Black, Topped           Iakhmoli         1         10         1.34         (Black, Topped, Unpaved         Black, Topped           Iakhmoli         1         1	63	Khroshyamupura- 4	1	2	S	1.80	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Padhora - 2         1         7         7         2.82         (Black, Topped, Unpaved)         Black, Topped           Remja         1         20         20         1.00         (Black, Topped, Unpaved)         Black, Topped           Nivsal 534-3         1         9         9         3.80         (Black, Topped, Unpaved)         Black, Topped           Baghall         1         6         6         0.77         (Black, Topped, Unpaved)         Black, Topped           Larol         1         13         1.3         1.00         (Black, Topped, Unpaved)         Black, Topped           Indurkhi         1         13         1.3         4.97         (Black, Topped, Unpaved)         Black, Topped           Indurkhi         1         9         9         4.20         (Black, Topped, Unpaved)         Black, Topped           Iakhmoli         1         10         2.81         (Black, Topped, Unpaved)         Black, Topped           Kakhara         1         10         10         2.81         (Black, Topped, Unpaved)         Black, Topped           Ojhaghat         1         6         6         1.34         (Black, Topped, Unpaved)         Black, Topped	64	Mehanda	1	4	4	1.00	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Remja         1         20         20         1.00         (Black, Topped, Unpaved Black, Topped, Unpaved Black, Topped Unpaved Bl	65	Padhora -2	1	7	7	2.82	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Nivsai 534-3         1         9         9         3.80         (Black, Topped, Unpaved Black, Topped Unpave	99	Remja	1	20	20	1.00	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Baghali         1         6         6         0.77         (Black, Topped, Unpaved)         Black, Topped           Larol         1         2         2         1.13         (Black, Topped, Unpaved)         Black, Topped           Dwar         1         13         13         1.00         (Black, Topped, Unpaved)         Black, Topped           Hilgawan         1         13         13         4.97         (Black, Topped, Unpaved)         Black, Topped           Indurkhi         1         9         9         4.20         (Black, Topped, Unpaved)         Black, Topped           Iakhmoli         1         10         1.0         2.81         (Black, Topped, Unpaved)         Black, Topped           Kakhara         1         18         1.10         (Black, Topped, Unpaved)         Black, Topped           Ojhaghat         1         6         6         1.34         (Black, Topped, Unpaved)         Black, Topped	67	Nivsai 534-3	1	6	6	3.80	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Larol         1         2         2         1.13         (Black, Topped, Unpaved         Black, Topped           Dwar         1         13         13         1.00         (Black, Topped, Unpaved         Black, Topped           Hilgawan         1         9         9         4.20         (Black, Topped, Unpaved         Black, Topped           Jakhmoli         1         10         10         2.81         (Black, Topped, Unpaved         Black, Topped           Kakhara         1         18         1.10         (Black, Topped, Unpaved         Black, Topped           Ojhaghat         1         6         6         1.34         (Black, Topped, Unpaved         Black, Topped	68	Baghali Bhadurpura	1	9	9	0.77	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Dwar         1         13         13         1.00         (Black, Topped, Unpaved)         Black, Topped           Hilgawan         1         13         4.97         (Black, Topped, Unpaved)         Black, Topped           Indurkhi         1         9         9         4.20         (Black, Topped, Unpaved)         Black, Topped           Jakhmoli         1         10         2.81         (Black, Topped, Unpaved)         Black, Topped           Kakhara         1         18         1.10         (Black, Topped, Unpaved)         Black, Topped           Ojhaghat         1         6         6         1.34         (Black, Topped, Unpaved)         Black, Topped	69	Larol	1	2	2	1.13	(Black, Topped, Unpaved	Bl.ck, Topped	Govt	Enclosed
Hilgawan         I         13         13         4.97         (Black, Topped, Unpaved Black, Topped Bl	70	Dwar	1	13	13	1.00	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Indurkhi         1         9         9         4.20         (Black, Topped, Unpaved)         Black, Topped           Jakhmoli         1         10         2.81         (Black, Topped, Unpaved)         Black, Topped           Kakhara         1         18         1.10         (Black, Topped, Unpaved)         Black, Topped           Ojhaghat         1         6         6         1.34         (Black, Topped, Unpaved)         Black, Topped	71	Hilgawan	1	13	13	4.97	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Jakhmoli         I         10         10         2.81         (Black, Topped, Unpaved         Black, Topped           Kakhara         I         18         1.10         (Black, Topped, Unpaved         Black, Topped           Ojhaghat         I         6         6         1.34         (Black, Topped, Unpaved         Black, Topped	72	Indurkhi	1	6	6	4.20	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Kakhara         1         18         1.10         (Black, Topped, Unpaved Black, Topped Olhaghat         Black, Topped	73	Jakhmoli	-	10	10	2.81	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
Ojhaghat 1 6 6 1.34 (Black, Topped, Unpaved Black, Topped	74	Kakhara	_	18	18	1.10	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	75	Ojhaghat		9	9	1.34	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed

Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

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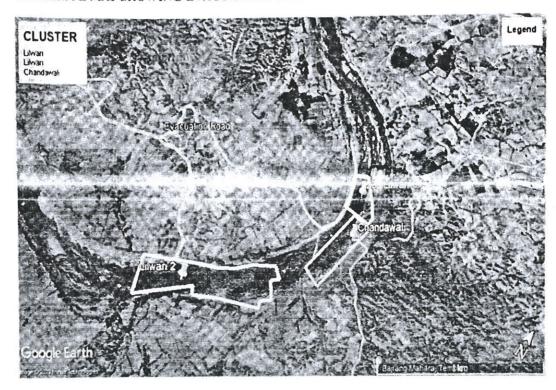


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(EPCO)

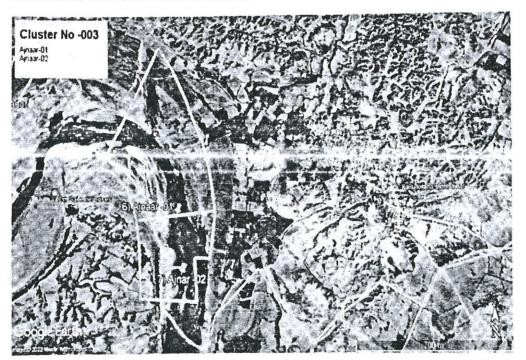
Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)

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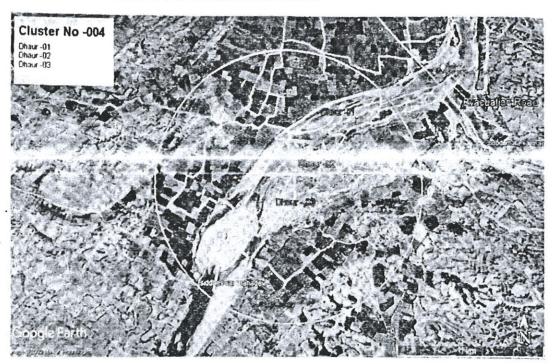
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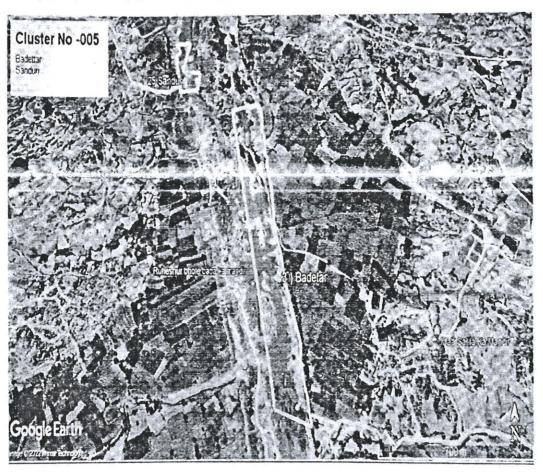








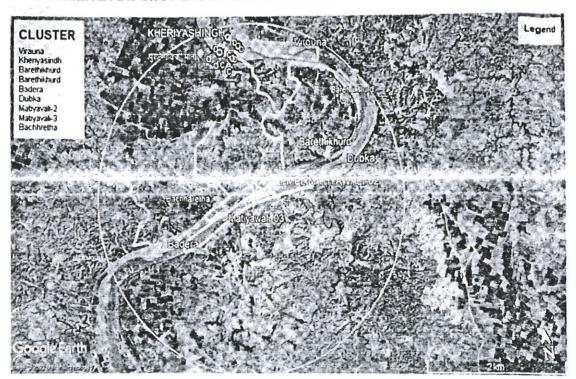




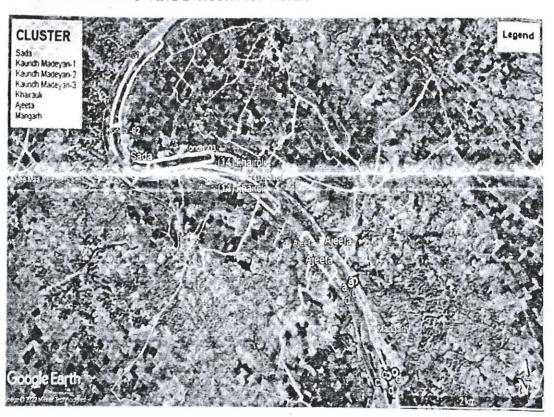
Assessment Authority, M.P.
(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)



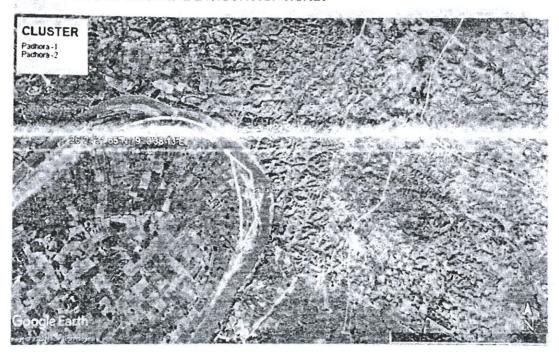
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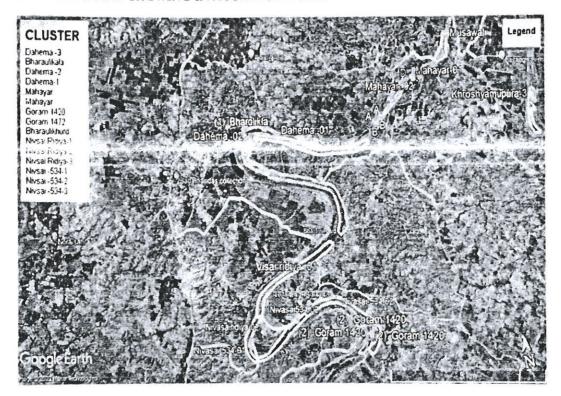










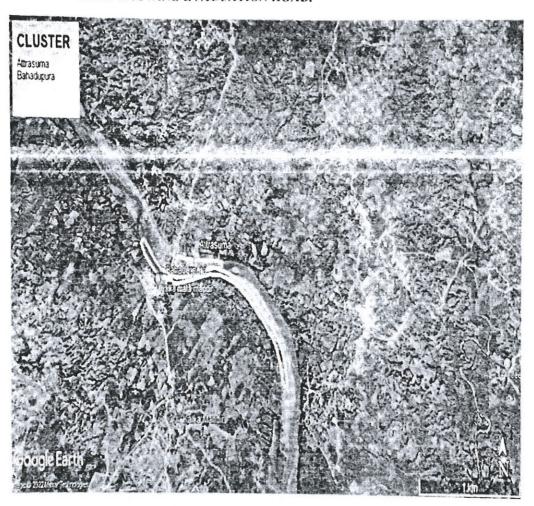




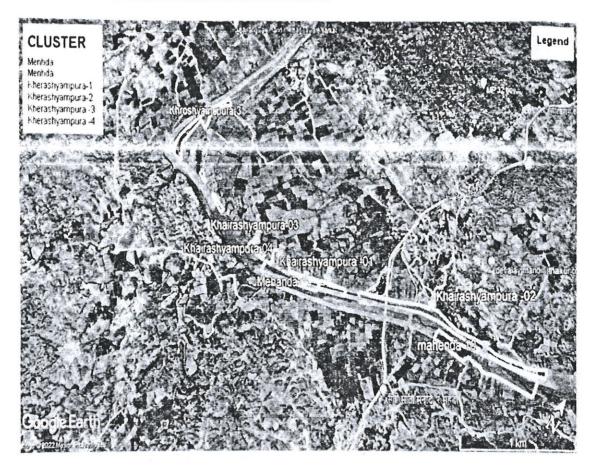
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	Sr. No.	Mines Name	Tehsil	Khasra No	Area	Diata nce (in KM) from PA/B R/W	Distance from forest Area (In KM)	Mining leases Within 500 Meters ( if yes cluster arae	Tota Exavati on in (MT/Yr Mine depth Max as 3m)	Miner al to be Mined (Sand/ Baijri/ RBM etc)	Existing / Propose d	Total Arca in sqm	Stan dard Dept h in mete	Sand Quantity Cubic meters	Mineable mineral potential in M3 (60 % of total mineral potential)	Mineable mineral potential (in MT (60 % of total mineral potential)
لــــا	1	Ajeeta	Mehgaon	1360	9.00	1	More than 500	Yes	86800	Sand	Existing	00006	1.15	103333	62000	86800
	2	Bacchreta	Mehgaon	883	3.00		More than 500	Yes	45360	Sand	Existing	30000	1.80	24000	32400	45360
	က	Barethiraj	Mehgaon	445	3.00	ı	More than 500	N <sub>o</sub>	25200	Sand	Existing	30000	1.00	30000	18000	25200
	4	Girwasa Naveen	lahar	6,210,1325	10.00	1	More than 500	No	91000	Sand	Existing	100000	1.08	108333	65000	91000
L	25	Girwasa Purani	Jahar	100	1.67	ı	More than 500	Yes	21067	Sand	Existing	16720	1.50	25080	15048	21067
L	9	Gurira	Mihona	1	4.00		More than 500	No	60480	Sand	Existing	40000	1.80	72000	43200	60480
L	7	Kaccharghat	Mehgaon	610	2.00	1	More than 500	Yes	49280	Sand	Existing	20000	1.17	28667	35200	49280
٨	ω	Lagdua	Lahar	185	2.00	ı	More than 500	No	22400	Sand	Existing	20000	1.33	26667	16000	22400
L	6	Lilwari-1	ON	258,259	4.00	1	More than 500	Yes	50400	Sand	Existing	40000	1.50	00009	36000	50400
L	10	Lilwari-2	Lahar	258,259	17.17	1	More than 500	Yes	156800	Sand	Existing	171700	1.09	186667	112000	156800
<u></u>	11	Matiyawali-2	Mihona	452	15.21	1	More than 500	Yes	113400	Sand	Existing	152100	0.89	135000	81000	113400
L	12	Matiyawali-3	Mihona	514	17.65	t	More than 500	Yes	130900	Sand	Existing	176500	0.88	155833	93500	130900
1	13	Sandurí	Mehgaon	665,666,66 8	3.19	,	More than 500	Yes	40194	Sand	Existing	31900	1.50	47850	28710	40194
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State Level Environment Impact
Assessment Authority, M.P.

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Paryavaran Parisar
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State Level Environment Impact
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(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

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50533	241710	147000	42000	37800	65352	42000	36400	112056	60200	64100	00026	002621	135408
36095	172650	105000	30000	27000	46680	30000	26000	80040	43000	46000	68500	128000	96720
60158	287750	175000	20000	45000	77800	20000	43333	133400	71667	76667	114167	213333	161200
1.01	2.13	2.50	1.00	1.71	1.00	0.63	1.08	1.00	1.79	1.53	0.60	0.87	96.0
59750	135100	70000	20000	26300	77800	79800	40000	133400	40000	20000	190000	244000	167200
Existing	Existing	Existing	Existing	Existing	Existing	Existing	Propose	Propose d	Propuse d	Propose	Propose d	Propose	Propose d
Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Samd
50533	241710	147000	42000	37800	65352	42000	36400	112056	90209	64400	95900	179200	135408
Yes	Yes	Yes	Yes	No	Yes	No.	No.	Yes	Yes	Yes	Yes	Yes	Yes
More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500				
ı		***************************************		Wallet Constitute Automatical		-	,		1		i e	\$	
5.98	13.51	7.00	5.00	2.63	7.78	7.98	4,00	13.34	4.00	5.00	19,00	24.40	16.72
1,20,15	1208	1212	801	125,127,91	1418	61	2787	274	2	222	534	410	and the second of the second o
lahar	Mehgaon	Mehgaon	Mehgaon	lahar	Mehgaon	lahar	Bhind	Roun	Roun	Roun	Roun	Roun	Roun
Chandrawali	Dubka	Musawali	Sadha	Bhapar	Goram 1472	Sijroli	Dochra	Kaundh Madeyan - 2	Mahayar 2	Padhora-1	Niwsai 534-2	Nivsai Ridiya-2	Kaundh Madeyan - 1
31	32	33	34	35	36	37	38	39	40	41	4.2	#3	7/

State Level Environment Impact
Assessment Authority, M.P.
(EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)

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167636	25900	93240	16870	24600	51030	105000	75600	103866	79464	100800	86800
119740	18500	66600	12050	39000	36450	75000	54000	74190	26760	72000	62000
199567	30833	111000	20083	65000	60750	125000	00006	123650	94600	120000	103333
1.00	1.54	0.80	1.18	0.65	1.24	2.50	2.57	0.50	1.00	0.50	1.03
198600	20000	139300	17020	100000	48800	20000	35000	247300	94600	240000	100000
Propose d	Propose d	Propose d	Propose d	Propose d	Propose d	Propose d	Propose	Propose	Propose	Propose d	Propose d
Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand
167636	25900	93240	16870	54600	51030	105000	75600	103866	79464	100800	00898
****	Yes	Yes	Yes	Yes	N <sub>O</sub>	Yes	Yes	Yes	Yes	Yes	Yes
More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500
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19.86	2.00	13.93	1.70	10.00	4.88	5.00	3.50	24.73	9.46	24.00	10.00
534	410	200	849, 855, 1486	1288, 1339	1	1,2	5234	181	1043,1103		s <b></b>
Roun	Roun	Roun	Bhind	Roun	Roun	Roun	Bhind	Roun	Roun	Roun	Roun
Niwsai 534-1	Nivsai Ridiya-3	Kaundh Madeyan - 3	Kheira Shyampura-1	Bahadurpura	Muratpura	Mahayar	Bilav	Dahema 3	Mangarh	Dahema 1	Mehanda
45	46	47	48	49	20	51	52	53	54	55	56

State Level Environment Impact
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(EPCO)

Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)



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	126612	120840	30600	38250	26330	14040	19483	16200	27000	76939	34200	
	211020	201400	51000	63750	43883	23400	32472	27000	45000	128232	57000	
	1.00	1.00	1.28	0.50	0.45	0.33	0.45	0.55	0.45	06.0	0.30	
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Vocasia	Propose d	Propose	Propose	Propose	Propose	Propose d	Propose	Propose d	Propose d	Propose d	Propose d	
	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Sand	
-	177257	169176	42840	53550	36862	19656	27276	22680	37800	107715	47880	
	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
More than	500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	More than 500	And the second s
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-	2638	1,2,9,371,37	1115, 1171	1,2,181	1486	578, 599, 741, 787	809,810, 1486	H	1201,1139 (Naveen- 629,1209)	197/2, 200, 285 (Naveen- 205, 739)	534	Marian Maria Asarahan sapadanan sapadanan sapadanan sapadanan sapadanan sapadanan sapadanan sapadanan sapadan
***************************************	Roun	Roun	Bhind	Roun	Bhind	Bhind	Bhind	Roun	Roun	Roun	Roun	
	Virauna	Nivsai Ridiya-1	Attrsuma	Dahema 2	Khroshyamupu ra-2	Khroshyamupu ra-3	Khroshyamupu ra-4	Mehanda	Padhora -2	Rетja	Nivsai 534-3	The state of the s
	27	28	59	09	61	62	63	64	65	99	22	1
	A.C.						Sta	Assess Pai	vel Env Sment A (EP ryavara Colon	Honment Muthority, CO) In Parisar y, Bhopa	Impac M.P.	ct )



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33600	12172	67200	71306	46019	52290	98811	33600
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40000	14490	80000	84888	54785	62250	117632	40000
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4.00	3.22	4.00	23.58	10.96	4.15	19.77	4.00
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Roun	Roun	Bhind	Roun	Roun	Bhind	Bhind	Bhind
Baghali Bhadurpura	Larol	Dwar	Hilgawan	Indurkhi	Jakhmoli	Kakhara	Ojhaghat
89	69	70	71	72	73	74 K	75 0



State Level Environment Impact
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Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)

# CHPATER -8 DETAILS OF PRODUCTION OF SAND OR BAJRI IN LAST THREE YEARS

Table 6.1: Details of Sand Production in Last Three Years

S.No	Year	Production (in com)
1.	2016 - 2017	1117308
2.	2017-2018	444572
3.	2018-2019	1502315

# CHPATER -9

# DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS

List Containing Royality and Revenue Received in Last Three Years

S. No	Year	Royalty/Revenue(In Lakh Rs)
1.	2016 -2017	15,12,86,378,78
2.	2017-2018	6,71,11,384
3.	2018-2019	43,88,25,970

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# ANNEXURE VI

River Name	Cluster	Lease 'No	Location Rivebad/Patta land	Village	Area (in Ila)	Total Excavation (CUM)	Total Excavation (TON)
Sindh	1	1	River Bed River Bed	Attrsuma Bahadurpura	14	69600	97440
manufacture (constitution	CONTRACTOR OF THE PROPERTY OF	1	River Bed	Padhora-1			
Sindh	2	i	River Bed	Padhora -2	15	73000	102200
			River Bed	Mehanda			akagan cara amilika 7.750 mwa aw
California de California		i	River Bed	Mehanda			
		1	River Bed	Kheira Shyampura 1	1		
Sindh	3	i	River Bed	Khroshyamupura-2	46.63	150103	210144
		1	River Bed	Khroshyamupura-3			
		to to a control distance of	River Bed	Khroshyamunura 4			
\$		1	River Bed	Musawali			
Sindh	4	1	River Bed	Remja	24.78	235939	330315
1		1	River Bed	Bilav		***************************************	
	and the same of th	1	River Bed	Dahema 1			A SECTION OF THE PROPERTY OF THE PARTY OF TH
***		1	River Bed	Dahema 2		-	
		1	River Bed	Dahema 3		The state of the s	
Mare ct.		1	River Bed	Bharolikalan		Ober 1 - In	
) Website commen		1	River Bed	Mahayar			
· rewards		1	River Bed	Mahayar 2			
Westernamen		1	River Bed	Goram 1420			
Sindh	5	1.	River Bed	Goram 1472	212.77	1095338	1533473
nue i velebio i c		1	River Bed	Bharolikhurd		1	
· Princeton of		1	River Bed	Nivsai Ridiya-1	Account of the second		
		1	River Bed	Nivsai Ridiya-2			
0.00		1	River Bed	Nivsai Ridiya-3			
		1	River Bed	Niwsai 534-1			
-		1	River Bed	Niwsai 534-2	- State of the sta		
-	- X	1	River Bed	Nivsai 534-3			
The state of the s		1	River Bed	Kaundh Madayan - 1	D-1 - 2 - 200-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2		
		1	River Bed	Kaundh Madayan- 2	A STATE OF THE STA		
A STATE OF THE STA		1	River Bed	Kaundh Madayan- 3	1		
Sindh	6	1	River Bed	Mangarh	86.45	518620	726068
A CONTRACTOR OF THE CONTRACTOR		1	River Bed	Ajeeta	of the state of th		
Suppliers on		1	River Bed	Kharoli	1		
		1	River Bed	Sadha			- CONTROL OF CONTROL O
ringth.	7	1	River Bed	Baddettar	20.00	75.624	101000
Sindh	X	1	River Bed	Sanduri	28.09	75634	105888
		1	River Bed	Bacchreta			-
Single II	8	1	River Bed	Virauna	100 102	801077	1123634
Sindh	Ü	1	River Bed	Barethiraj	109.182	801872	1122621
		1	River Bed	Baretikhurd-1	-		

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		1	River Bed	Baretikhurd-2		-	
		1	River Bed	Badera		o	
	V. T.	1	River Bed	Dubka		Marco communication of the contraction of the contr	
		1	River Bed	Matiyawali-I		***	
		1	River Bed	Matiyawali-2		An and a second	
*****		1	River Bed	Matiyawali-3		9	
a		1	River Bed	Dhaur-1		***************************************	NACAS TORREST STREET, CHARGE,
Sindh	9	1	River Bed	Dhaur-2	45.76	114838	160773
and the second second		1	River Bed	Dhaur-3			
Sindh	10	1	River Bed	Lagdua	2 622	24040	47.467
		1	River Bed	Girwasa Purani	3.672	31048	43467
<i>a</i> : 0	14.6	1	River Bed	Lilwari-1			
Sindh	11	1	River Bed	Lilwari-2	27.145	184095	257733
e e consession de la cons	Commence of the Commence of th	1	River Bed	Chandrawali		90	
Sindh	12	1	River Bed	Ajnaar 1	22.01	240000	the court continues.
AND THE RESIDENCE OF TH	***************************************	1	River Bed	Ajnaar 2	32.81	248060	347284
Sindh	without cluster	1	River Bed	Dochra	10.957	26,000	36400
Sindh	without cluster	1	River Bed	Muratpura	5	36,450	51030
Sindh	without cluster	1	River Bed	Baghali Bhadurpura	4	24,000	33600
Sindh	without cluster	1	River Bed	Larol .	4	8,694	12172
Sindh	without cluster	1	River Bed	Dwar	2.63	48,000	67200
Sindh	without cluster	1	River Bed	Hilgawan	2.97	50,933	en constitution and a second
Sindh	without cluster	1	River Bed	Indurkhi	4	32,871	71306
Sindh	without cluster	1	River Bed	Jakhmoli	23.58	37,350	46019
Sindh	without cluster	1	River Bed	Kakhara	4	Andrew	52290
Sindh	without cluster	1	River Bed	Ojhaghat	4.15	70,579	98811
Sindh	without cluster	1	River Bed	Bacchroli	3.22	24,000	33600
Sindh	without cluster	1	River Bed	Bhapar	and a section of the	36,000	50400
Sindh	Without cluster	1	River Bed	Girwasa Naveen	4.88	27,000	37800
Sindh	without cluster	1	River Bed	Gurira	19.77	65,000	91000
Sindh	without cluster	1	River Bed	A STATE OF THE PARTY OF THE PAR	4	43,200	60480
Sindh	without cluster	1	River Bed	Kaccharghat	3	35,200	49280
Sindh	without cluster	1	The second secon	Kheriyasindh	4	46,560	65184
Sindh	without cluster	1	River Bed	Madori	10	43,400	60760
	Lance Cluster		River Bed	Sijroli	7.98	30,000	42000

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25 82				10	Willeyme vii	VII			
Sr no			Trans	ortation R	toutes for	Transportation Routes for individual leases	1949)		
+	Lease Name	Transportation Route No.	No. of trippers/ day of lease	No. of trippers/ day of all the lease route	Length of Route in KM	Type of Road (Black, Topped, Unpaved)	Recommendation for Road (Black, Topped, Unpaved)	The road will be constructed by Govt/Lease	Route Map & Location
-	Ajeeta	-	16	16	2	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
2	Bacchreta	-	œ	œ	1.6	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	Barethiraj	-	Ŋ	5	0.8	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
4	Girwasa Naveen	-	17	17	1.79	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
2	Girwasa Purani	-	4	4	2.12	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	Gurira	-	11	11	2.23	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
-	Kaccharghat	1	6	6	4	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
00	Lagdua	1	4	4	2.12	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
6	Lilwari-1	1	6	6	7	(Biack, Topped, Unpaved	Black, Topped	Govt	Enclosed
10	Lilwari-2	1	29	29	0.94	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
11	Matiyawali-2	1	21	21	1.8	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
12	Matiyawali-3	-	24	24	0.65	(Black, lopped, Unpaved	Black, Topp⊷d	Govt	Enclosed
13	Sanduri		7	7	4.4	(Black, lopped, Unpaved	Black, Topped	Govt	Enclosed

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Assessment Authority, M.P.
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Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)

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4.9         (Black, Topped, Black, Topped)         Black, Topped, Black, Topped         Black, Topped         Enclosed           2.2         Unpaved Unpaved         Black, Topped, Black, Topped         Black, Topped         Enclosed           1.6         Unpaved Unpaved         Black, Topped         Govt         Enclosed           2.58         Unpaved Unpaved         Black, Topped         Govt         Enclosed           1.55         Unpaved Unpaved         Black, Topped         Govt         Enclosed           0.64         Unpaved Unpaved         Black, Topped         Govt         Enclosed           1.9         Unpaved Unpaved         Black, Topped         Govt         Enclosed           (Black, Topped, Black, Topped         Black, Topped         Govt         Enclosed           (Black, Topped, Black, Topped         Black, Topped         Govt         Enclosed           (Black, Topped, Black, Topped, Black, Topped         Black, Topped         Govt         Enclosed           (Black, Topped, Black, Topped, Black, Topped         Black, Topped         Govt         Enclosed           (Black, Topped, Black, Topped, Black, Topped         Black, Topped         Govt         Enclosed           (Black, Topped, Black, Topped, Black, Topped         Govt         Enclosed	Ajnaar 1 1 48	1 48	48		48	4.9	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
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(Black, Topped, Unpaved Black, Topped Govt (Black, Topped) Black, Topped Govt	Bacchroli 1 9 9			6		2.88	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
(Black, Topped, Black, Topped Govt	Baretikhurd-1 1 30 30			30		2	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	Bharolikhurd 1 17 1			1	17	2.5	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed

State Level Environment Impact Assessment Authority, M.P.

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E-5, Arera Colony, Bhopal (M.P.)

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	Chandrawali	1	ø	6	7	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	Dubka	1	45	45	1.9	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	Musawali	-	27	7.2	1.5	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	Sadha		œ	00	1.6	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	Bhapar	1	7	7	1	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	Goram 1472	-	12	12	S	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	Sijroli	1	8	œ	0.48	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
	Dochra	-	7	7	0.65	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
1	Kaundh - 2		21	21	2	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
1	Mahayar 2	-	11	11	2.3	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
1	Padhora-1	-	12	12	2.17	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
1	Niwsai 534-2	_	18	18	4	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
1	Nivsai Ridiya-2	_	33	33	4.4	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
1	Kaundh - 1	_	25	25	4.5	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
1	Niwsai 534-1	-	31	31	2	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
1	Nivsai Ridiya-3	-	S.	\$	4.4	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
1 1	Kaundh - 3		17	17	3.5	(Black, Topped, Unpaved	Black, Topped	Govt	Enclosed
JARRY 1	Service Servic								

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Paryavaran Parisar E-5, Arera Colony, Bhopal (M.P.)

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Kheira Shyampura- 1	-	m	m	6.0	(Black, Topped, Unpayed	Black, Topped	Govt	Enclosed
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Banadurpura	-	10	10	0.65	Unpaved	Black, Topped	Govt	Enclosed
Miratolira	-				(Black, Topped,			
acpuia	-	o	6	2.54	Unpaved	Black, Topped	Govt	Enclosed
Mahayar	-				(Black, Topped,			
ilaya:	-	20	20	3.61	Unpaved	Black, Topped	Govt	Enclosed
Dilore					(Black, Topped,			
<b>&gt;</b>	-	14	14	2	Unpaved	Black, Topped	Govt	Enclosed
	-				(Black, Topped,			
Danema 3	-	19	19	3.27	Unpaved	Black, Topped	Govt	Enclosed
1	-				(Black, Topped,			
Mangarn	-	15	15	4	Unpaved	Black, Topped	Govt	Enclosed
					(Black, Topped,			
Dahema 1		19	19	2.53	Unpaved	Black, Topped	Govt	Enclosed
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Mehanda	-	16	16	0.4	Unpaved	Black, Topped	Govt	Enclosed
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Virauna	_	33	33	1.4	Unpaved	Black, Topped	Govt	Enclosed
					(Black, Topped,			
Nivsai Ridiya-1	-	31	31	2.5	Unpaved	Black, Topped	Govt	Enclosed
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Attrsuma		00	00	0.31	Unpaved	Black, Topped	Govt	Enclosed
· · · · · · · · · · · · · · · · · · ·	-				(Black, Topped,			
Dahema 2	_	10	10	3.7	Unpaved	Black, Topped	Govt	Enclosed
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					(Black, Topped,			
Khroshyamupura-3	_	4	4	2.3	Unpaved	Black, Topped	Govt	Enclosed
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#### **CHPATER-10**

# PROCESS OF DEPOSITION OF SEDIMENTS IN THE RIVERS OF THEDISTRICT

Sediment refers to the conglomerate of materials, organic and inorganic, that can be carried away by water, wind or ice. While the term is often used to indicate soil-based, mineral matter (e.g. clay, silt and sand), decomposing organic substances and inorganic biogenic material are also considered sediment. Most mineral sediment comes from erosion and weathering, while organic sediment is typically detritus and decomposing material such as algae. Sediment particles come in different sizes and can be inorganic or organic in origin. These particulates are typically small, with clay defined as particles less than 0.00195 mm in diameter, and coarse sand reaching up only to 1.5 mm in diameter. However, during a flood or other high flow event, even large rocks can be classified as sediment as they are carried downstream. Sediment is a naturally occurring element in many bodies of water, though it can be influenced by anthropogenic factors.

In an aquatic environment, sediment can either be suspended (floating in the water column) or bedded (settled on the bottom of a body of water). In other words, waterflow tries to scour its surface whenever it flows in the channel. Silt or gravels even larger boulders are detached from its bed or banks. The moving water sweeps these detached particles in downstream along its flow. Silting and scouring is not very uncommon and must be avoided by proper designs. It reduces supply level of water. The channel section gets reduced by silt and reduces discharging capacity. Sediments seriously threaten various projects due to silt carried out by rivers up to point of interceptions. Sediment is also threatening denudation of forests. Sediment is a major obstruction on the flow line. It shortens longevity of channel. It causes soil erosion. Therefore data base must be needed for policy making and planning.

The mineral potential is calculated based on field investigation and geology of the catchment area of the river/ streams. As per the policy of the State and location, depth of minable mineral is defined. The area for removal of mineral in a river or stream can be decided depending on geomorphology and other factors, it can be 50% to 60% of the area of a particular river/stream, e.g. in river mineral constituents like sand up to a depth of three meter are considered as resource mineral. Other constituents like clay and silt are excluded as waste while calculating the mineral potential of particular river/ stream.

The specific gravity of each mineral constituent is different. The percent of mineral constituent like boulder, river Bajri, and sand also varies for different river and streams. While calculating the mineral potential, the percentage of each mineral constituent is taken as 25-30% for sand and 5-10% for silt and clay.

The quantum of deposition varies from stream to stream depending upon factors like catchment lithology, discharge, river profile and geomorphology of the river course. There are certain geomorphological features developed in the river beds such as channel bar, point bar etc where annual deposition is more even two to three meters.

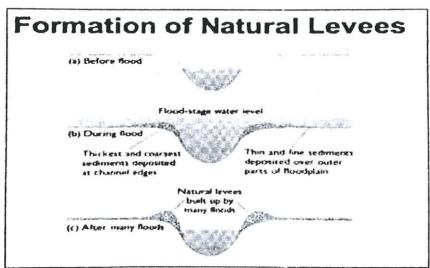
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# **Process of Deposition**

Sediment is a naturally occurring material that is broken down by processes of weathering and erosion, and is subsequently transported by the action of wind, water and/or by the force of gravity acting on the particles. Sediments are most often transported by water. Sediment is transported based on the strength of the flow that carries it and its own size, volume, density, and shape. Stronger flows will increase the lift and drag on the particle, causing it to rise, while larger or denser particles will be more likely to fall through the flow. Deposition is the processes where material being transported by a river is deposited. Deposition occurs when a river loses energy. This can be when a river enters a shallow area (this could be when it floods and comes into contact with the flood plain) or towards its mouth where it meets another body of, water. Deposition is the geological process in which sediments, soil and rocks are added to a landform or land mass. Wind, ice, and water, as well as sediment flowing via gravity, transport previously eroded sediment, which, at the loss of enough kinetic energy in the fluid, is deposited, building up layers of sediment. Rivers flood on a regular basis. The area over which they flood is known as the floodplain and this often coincides with regions where meanders form. Meanders support the formation of flood plains through lateral erosion. When river floods the velocity of water slows. As the result of this the river's capacity to transport material is reduced and deposition occurs. This deposition leaves a layer of sediment across the whole floodplain. After a series of floods, layers of sediment form along the floodplain.



: Formation of Natural Levees Due to Floods

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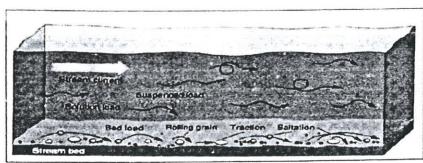
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# **Modes of Sediment Transport**

The sediment load of a river is transported in various ways although these distinctions are to some extent arbitrary and not always very practical in the sense that not all of the components can be separated in practice:

- ✓ Dissolved load
- ✓ Suspended load
- ✓ Intermittent suspension (saltation) load
- ✓ Wash load
- ✓ Bed load



Methods of Sedimment Transport in Stream

The sand deposits being an integral part of the dynamic river system to which it belongs. Therefore, as a part of natural cycle, the monsoon flow of every river carries with it replenishment of silt and washed out soil and clay from upstream areas in the catchment. This silt shall be removed during the sieving of sand before it is loaded into truck/tipper/trailer to carry to the consumers.

Sand mining is critical to infrastructure development around the globe. Sand is an essential minor mineral used extensively across the country as a useful construction constituent and variety of other uses in sports, agriculture, glass making (a form of sand with high silica content) etc. The rivers are the most important source of Sand. It acts as source of transportation and deposition of sand etc.

# Annual Replenishment of Mineral in River Bed Area/ Sedimentation

The deposition in a river bed is more pronounced during rainy season although the quantum of deposition varies from stream to stream depending upon numbers of factors such as catchment, lithology, discharge, river profile and geomorphology of the river course where annual deposition is two to three meter, but it is noticed that during flood season whole of the pit so excavated is completely filled up and as such the excavated area is replenished with new harvest of minerals. In order to calculate the mineral deposits in the stream beds, the mineral constituents have been categorized as clay, silt, sand, Bajri and boulder. However, during present calculation, the waste material i.e. silt which varies from 10 to 20% in different streams has also been included in the total production. Further, the Survey of India Topo-Sheets has been used as base map to know the extent of river course. The mineral reserves have been

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calculated only upto 2 to 3meter depth although there are some portions in the river beds such as channel bars, point bars and central islands where

the annual deposition is raising the level of river bed thus causing shifting of the rivers towards banks resulting in to cutting of banks and at such locations, removal of this material upto the bed level is essential to control the river flow in its central part to check the bank cutting. While calculating the mineral potentials, the mineral deposits lying in the sub-tributaries of that particular stream/river has not been taken into consideration. Since these mineral deposits are adding annually.

Sedimentation is generally considered by geologists in terms of the textures, structures, and fossil content of the deposits lay down in different geographic and geomorphic environments. The factors which affects the "Computation of Sediment":

- > Geomorphology & Drainage Pattern: The following geomorphic units plays importantiale
  - Structural Plain
  - Structural Hill
  - Structural Ridge
  - Denudation Ridge & Valley
  - · Plain & Plateau
  - · Highly Dissected pediment
  - Undissected pediment
- Distribution of Basin Area River wise
- Drainage System/Pattern of the area, Rainfall & Climate: Year wise Rainfall data

### Replenishment Study

The need for replenishment study for river bed sand is required in order to nullify the adverse impacts arising due to excess sand extraction. Mining within or near riverbed has a direct impact on the stream's physical characteristics, such as channel geometry, bed elevation, substratum composition and stability, in-stream roughness of the bed, flow velocity, discharge capacity, sediment transport capacity, turbidity, temperature etc. Alteration or modification of the above attributes may cause an impact on the ecological equilibrium of the riverside regime, disturbance in channel configuration and flow-paths. This may also cause an adverse impact on in stream biota andriparian habitats.

The effects of sediment replenishment are investigated for cross section bed deposition, flow velocity, grain size distribution, water quality and organisms.

# Methodology Adopted for Replenishment study

The methodology adopted for the study is an integrated approach involving:

- 1) Field data collection followed by cross section survey over the sections of fixed intervals along the river showing river bed material (RBM) with present elevations.
- 2) Remote sensing was used for identification of watershed area relevant to the mine lease along the river at different coordinates.
- 3) Estimation of catchment yield and bed load transport: The catchment yield has been computed using the Strange's runoff method for the runoff coefficient. The Iso-pluvial maps of IMD have been used for estimation of catchment yield and peak flood discharge for the study area by various methods like Dickens, Jarvis, and Rational formula at 25, 50 and 100 years return period

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### Hydrology

Chambal, Asad, Kunawari, Besali, Sindh & Pahuj rivers drain the area. Ravines & Gullies have developed along the course of all rivers particularly along the flood plains. A very fine network of gullies and forming dendritic drainage network characterizes these. The depth of dissection by gullies is more intense along the river Chambal as compared to others.

#### Climate

The climate of Bhind district, characterized by a hot summer and general dryness except during the southwestern monsoon. A year may be divided into four seasons, cold season from December to February followed by the hot season from March to about middle of June. The period from Middle of June to September is the southwestern monsoon season. October & November forms the post monsoon or transition period. During the southwest monsoon season the relative humidity generally exceeds 83% (August month). The driest period is summer season when relative humidity is less than 26%. May is the driest month of the year. Normal maximum temperature during the month of May is 42°C and minimum during January month is 7.1°C. Normal mean maximum & minimum temperature is 32.5°C & 21.8°C respectively. Wind velocity is higher during the premonsoon period as compared to the post monsoon period. The maximum wind velocity is 11.3 km/h during the month of June and minimum is 3.1 km/h during the month of November. Average normal annual wind velocity is 6.4 km/h.

#### Temperature

There is no meteorological observatory in Bhind. After February the temperature increases steadily till May, when the mean daily temperature is about 46 degree C and the mean daily minimum is about 28 degree C. In the June the mean daily temperature is higher than in may by a couple of degrees. The heat in summer is intense and the dust laden scorching winds which blow often add much to the discomfort. With onset of monsoon in district by about middle of June, there is an appreciable drop in the temperature. After October day and night temperature decrease rapidly. January is greatly the coldest month with the mean daily maximum temperature at about 23 degreeC, and the mean daily minimum at about 5 degree C. In 2003 it dropped to about 2-3 degree C. In the cold season in the rear of passing western disturbances, cold waves affect the District and the minimum temperature may drop down to about a degree below the freezing point of water.

## Rainfall

Number(m)	Year	Rainfall (In mm)
1	2000-01	477
2	2001-2	759.2
3	2002-3	430.8
4	2003-4	771.1
5 .	2004-5	503.3
6	2005-6	535.2
7	2006-7	494.3
8	2007-8	476.3
9	2008-9	1030.4
10	2009-10	603.6
11	2010-11	894.4
12	2011-12	808
13	2012-13	795.4
14	2013-14	1261.8

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15	2014-15	552.6	
17	2015-16	474.6	
18	2016-17	637.7	
19	2017-18	626.8	
20	2018-19		
21	2019-20	931.3 907.6	
22	2020-21	560.4	
	2021-22	978.3	

Source IMD Bhind

The average annual rainfall of Bhind is 668.3 mm. The spatial variation of the district is not too much. About 92% of the annual rainfall is received in the south-west monsoon months. On an average there are 33 rainy days in a year

# **Estimation of Catchment Yield**

The replenishment estimation is based on a theoretical empirical formula with the estimation of bed load transport comprising of analytical models to calculate the replenishment estimation. The iso-pluvial maps of IMD can be used for estimation of rainfall. Catchment yield is computed using different standard empirical formulas relevant to the geographical and channel attributes.

Strange's Monsoon runoff curves for runoff coefficient). Peak flood discharge for the study area can be calculated by using Dickens, Jarvis and Rational formula at 25, 50 and 100 years return period. The estimation of bed load transport using Ackers and White Equation is made.

For estimation of surface run off coefficient, we considered a particular value of peak rainfall. In absence of non-availability, peak storm water has been estimated as under:

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100000 25080 72000 30000 10000 60000 95000 75600 47850	3.33       1.5       1.08       100000         0.56       2.25       1.5       25080         1.34       2.7       1.8       72000         1.67       0.9       1.17       30000         0.67       0.75       1.33       10000         1.33       2.25       1.5       60000         6.03       0.83       1.09       95000         5.07       0.75       0.89       75600         5.88       0.75       0.88       88250         1.06       2.25       1.5       47850	6.00 9 3.00 2.25 1.15 135000 een 6.67 10 3.33 1.5 1.08 100000 ani 1.11 1.672 0.56 2.25 1.5 25080 at 3.33 5 1.67 0.9 1.17 30000 at 3.33 5 1.67 0.9 1.17 30000 at 3.33 5 1.67 0.9 1.17 30000 at 3.33 6.067 0.75 1.33 10000 at 3.33 7 1.67 0.9 1.17 30000 at 3.33 8 1.67 0.9 1.17 30000 at 3.33 8 1.67 0.9 1.17 30000 at 3.33 1.07 0.67 0.75 1.33 10000 at 3.33 1.09 95000 at 3.33 1.09 0.83 1.09 95000 at 3.33 1.00 0.75 1.33 1.09 95000	DSR New Mineable Mineable mineral mineral potential in Cum in Cum total mineral potential)  New Mineable Mineable mineral mineral potential in potential in potential)  New Mineable Mineable mineral potential in potential)  New Mineable Mineable mineral potential in potential)	333 81000 <b>62000</b> -19000 - Due to Decrease in Depth	10 11 12 13	81000 <b>62000</b> -19000 - 32400 0	5400 18000 12	<b>333</b> 60000 <b>65000</b> 5000 + Due to Increase in Area	<b>15048 15048</b> 0	<b>100</b> 43200 43200 0	35200 + Due to Increase in Area	.67 6000 <b>16000</b> + Due to Increase in Area	000 36000 0 0	667 57000 112000 55000 + Due to Increase in Area	000         45360         81000         35640         +         Due to Increase in Area	<b>833</b> 52950 <b>93500</b> 40550 + Due to Increase in Area	<b>550</b> 28710 28710 0	54000 193860	188800 + 188800 +
100000 25080 72000 30000 10000 60000 95000 75600 47850 90000	3.33       1.5       1.08       100000         0.56       2.25       1.5       25080         1.34       2.7       1.8       72000         1.67       0.9       1.17       30000         0.67       0.75       1.33       10000         6.03       0.83       1.09       95000         5.07       0.75       0.89       75600         5.07       0.75       0.88       88250         1.06       2.25       1.5       47850         17.81       1.5       -1.28       90000         -6.87       1.5       1.21       238100	2.00       3       1.00       2.7       1.8       54000         2.00       3       1.00       0.45       1       9000         1.11       1.672       0.56       2.25       1.5       25080         1.11       1.672       0.56       2.25       1.5       25080         2.66       4       1.34       2.7       1.8       72000         3.33       5       1.67       0.9       1.17       30000         1.33       2       0.67       0.75       1.33       10000         1.114       17.17       6.03       0.83       1.09       95000         10.14       15.21       5.07       0.75       0.89       75600         11.77       17.65       5.88       0.75       0.89       75600         2.13       3.19       1.06       2.25       1.5       47850         -6.00       23.81       17.81       1.5       1.21       238100         15.87       9       -6.87       1.5       1.21       238100	10		81000	32400	5400	00009	15048	43200	18000	0009	36000	57000	45360	52950	28710	767 54000 182860	
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# कार्यालय कलेक्टर (खनिज शाखा) जिला भिण्ड (म०प्र०)

Email - modgmbhi@mp.gov.in

क्रमांक-.**६७.६३**..../खनिज/2022 प्रति,

भिण्ड, दिनांक.**29**12 22

सचिव (SEAC), अनुसंधान एवं विकास विंग, म.प्र. प्रदूषण नियंत्रण बोर्ड, पर्यावरण परिसर, ई—5, अरेरा कॉलोनी, भोपाल (म.प्र.)

विषय:--संदर्भ:--

जिला सर्वेक्षण रिपोर्ट (DSR) के संबंध में।

 माननीय राष्ट्रीय हरित प्राधिकरण नई दिल्ली का आदेष 726/2018 एवं 456/ 2018 दिनांक 04.11.2020।

2. संचालनालय, भौमिकी तथा खनिकर्म, म.प्र. भोपाल का पत्र क्र.—16039 दिनांक 25.11.2021, पत्र क्र. 2981 दिनांक 03.03.2022 एवं पत्र क्र. 4755 दिनांक 08.04.2022

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उपरोक्त विषयान्तर्गत लेख है कि जिला भिण्ड की जिला सर्वेक्षण रिपोर्ट आपके पत्र क्र. 728 दिनांक 08.06.2022 से अनुमोदित की गई है। अनुमोदित डी०एस०आर० में ग्राम गोरम 1472 , चंद्रावली व भरौलीखुर्द रेत खदानों में निजी सर्वे होने से पुनः जिला स्तरीय समिति के सदस्यों द्वारा सस्टेनेबल सेण्ड माइनिंग मैनेजमेंट गाईडलाईन 2016 एवं इनफोर्समेंट मानिटरिंग फार सेण्ड माइनिंग 2020 के निर्देषों के तहत प्रारूप जिला सर्वेक्षण रिपोर्ट (DSR) का तैयार की गई। प्रारूप डीएसआर को 21 दिवस की अवधि हेतु जिले के पोर्टल (bhind.nic.in) पर तथा हार्डकॉपी खनिज कार्यालय भिण्ड में आमजन के दाबा/आपित्त एवं सुझाव हेतु रखी गयी। प्राप्त दाबा/आपित्तयों का समिति द्वारा अवलोकन एवं निराकरण कर उक्त जिला सर्वेक्षण रिपोर्ट को अद्यतन किया गया। पूर्ण परीक्षण उपरांत जिला सर्वेक्षण रिपोर्ट (DSR) के भौतिक और भौगोलिक क्षेत्रों से संबंधित प्रासंगिक तथ्यों के सही पाये जाने पर समिति द्वारा अनुमोदन कर प्रतिवेदन प्रस्तुत किया गया।

अतः भिण्ड जिले की जिला सर्वेक्षण रिपोर्ट (DSR) अग्रिम कार्यवाही हेतु आपकी और

अग्रेषित है। संलग्नः– उपरोक्तानुसार।

> कलेक्टर जिला भिण्ड (म.प्र.) भिण्ड, दिनांक **29/12/2**2

पृ०क्रमांक-**८७८.५..**/खनिज/2022 प्रतिलिपि:-

1. प्रमुख सचिव, म.प्र. शासन, खनिज साधन विभाग, मंत्रालय, भोपाल की ओर सूचनार्थ।

2. संचालक, भौमिकी तथा खनिकर्म, 29-ए, अरेरा हिल्स, भोपाल की ओर सूचनार्थ।

3. कार्यवाहक संचालक, म.प्र. राज्य खनिज निगम लिमिटेड, भोपाल की ओर सूचनार्थ।

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(EPCO)
Paryavaran Parisar
E-5, Arera Colony, Bhogal (M.P.)

कलेक्टर जिला भिण्ड (म.प्र.)

# CHPATER -11 GEOLOGY AND MINERAL WEALTH

The Chambal Badlands consist of alluvial deposits that are 50-60 m thick, and were deposited during the Quaternary period: the soils include highly oxidized fine sands, sandy loam and clayey loam, with some coarse sand in some areas (Joshi, 2014). The alluvial deposits include sediment rich in mica and non-expanding clays like illite and kaolinite, as well as high amounts of smectite clays.

The alluvial formation covers the major part of the district. Thickness varies from 70 to 250m and resting over the Vindhyan & Archaeans rocks. Alluvium consists of clay, sand & gravels. The thickness of the clay overburden generally decreases towards north. Thickness of sand and gravel aquifers vary from 3 to 17 m. The thickness of the overburden more than 60 m is occurring in south of Mehgaon. Some outcrops of this formation are exposed in the western parts of the district in Gohad tehsil. The sandstone & shales of the formation are encountered in the tube wells between 86 to 172 m b.g.l. (Source CGWB, Ground water Exploration). As these rocks are hard compact & devoid of weaker zones therefore the ground water ccurrence is meager and ground water development in this formation is less. The Vindhyan Basin, containing more than 5000 m thick sequence of sandstones, shales and limestone, occupies an area of about 1,62,000 sq.km of which about 80,000 Sq.km extends into the Ganga valley in the north and northeast beneath the Tertiary sediment of the Himalayan foredeep. In the southwest, the Vindhyan rocks are covered by Deccan volcanics. Gwalior series is exposed in southwestern part of the district and consists of Banded Hematite Quartzite. Ground water occurs under semi confined to confined conditions and yield potential is less.

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# Geological Profile of the District

Age	Super Group	Group/ Formation	Lithology
Holocene	•	Younger Alluvium	Grey, red to brownish red, quartzo- felspathic, and micaceous sand and silt (cut off meanders, point bar and channel deposits)
Middle to late Pleistocene		Old Alluvium	Grey, red to brownish micaceous and silt and clay loos, unconsolidated rock debris, colluvium, oxidised silt, subordinate grey to brown, micaceous sand with kankar and ferruginous nodules. Silt clay with red, medium to coarse sand stoned quartzo felspathic sand with ferruginous nodules at places.
Early Pleistocene	Vindhyan		White to greyish-white fine to medium grained thickly bedded sandstone. Green, brown, dirty white soft shale with limestone, dark grey to black hard, massive jaspilite.
Paleo to Meso Proterozoic	-	Gwalior Group	Ochre yellow, reddish brown, red, ferruginous shale with bands of chert, jasper, and limestone at base.

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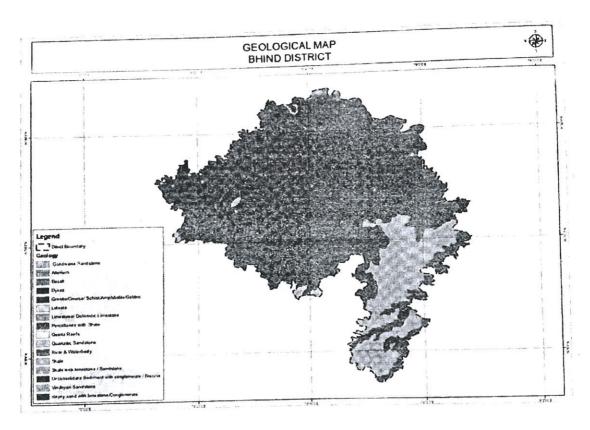


Figure 7 Geological Map of the District

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GE	OMOPHO	LOGICAL MAP	OF BHIND DISTRICT	·\(\psi\)
s.6	المُحَدِّدِ ا			
				ı
Burtie Butte Denu Denu Linea	nology al Plain	Mesa  Moderate Dissected Pla  Palaeochannel  Pediment  Pediplain  Peidmont Zone  Plateau  Plateau Top	Ravine / Gullied Land Residual Hill Scarp Structural Hill Valley Valley Fill Younger Alluvial Plain River / Waterbody	

Geomorphologic Map of the District

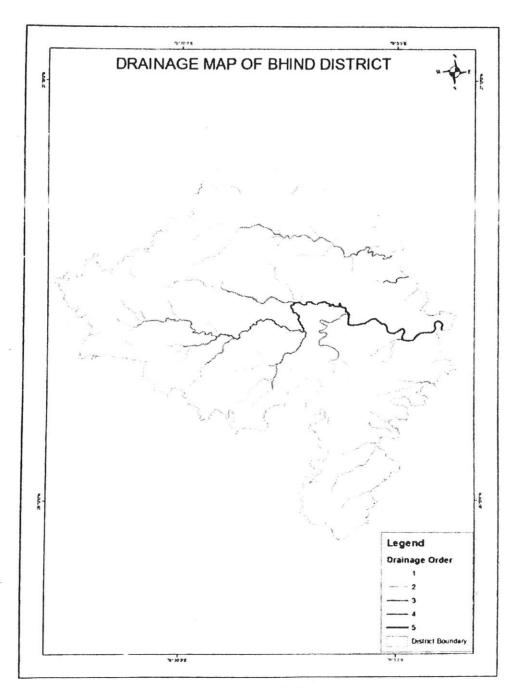


# **Drainage and Irrigation Pattern** Drainage Pattern

Chambal, Asad, Kunawari, Besali, Sindh and Pahuj rivers drain the area. Ravines & Gullies have developed along the course of all rivers particularly along the flood plains. A very fine network of gullies and forming dendritic drainage network characterizes these. The depth of dissection by gullies is more intense along the river Chambal as compared to others.

# **Irrigation Practices**

Irrigation is the artificial application of water to the soil for normal growth of plants. Water is an important determinant factor for production of crops in agriculture sector. Intensive and extensive cultivation of land depends mainly on the availability of water. Medium and minor irrigation schemes are implemented in the state for augmenting the water supply for agriculture. The various sources of irrigation are canals, tanks, tube wells, ordinary wells, springs, and channels.



Drainage Map of the District



## Surface Water and Ground water scenario of the district

#### **Ground Water**

Ground Water is found beneath the earth's surface and is an important source of water in most of the Districts in the State. Ground Water is withdrawn for Agriculture, Municipal and industrial use. The depth at which the ground water occurs is called Ground water Table.

Variation of groundwater levels in an area is an important component of hydrological cycle because it is a physical reflection of aquifer systems. As the change in groundwater level is directly related to groundwater balance and its continuous records provide direct information of subsurface geo-environmental changes due to withdrawal of groundwater. During the premonsoon period depth to water level ranges from 4.10 mbgl to 34.9 mbgl. However, in major part the depth to water level is less than 28 mbgl. Deeper water level of more than 30 mbgl is observed in small, isolated patches in northern and northeastern part. The depth to water level in post monsoon ranges from 2.40 mbgl to 34.9 mbgl. However, in major part the depth to water level ranges from 5 to 30 mbgl. Deeper water level of more than 30 mbgl is observed in two isolated patches one each in northern and north eastern part. During Pre-monsoon period an overall declining trend is observed. It ranges from 11.17 cm/year to 76.13 cm/year.

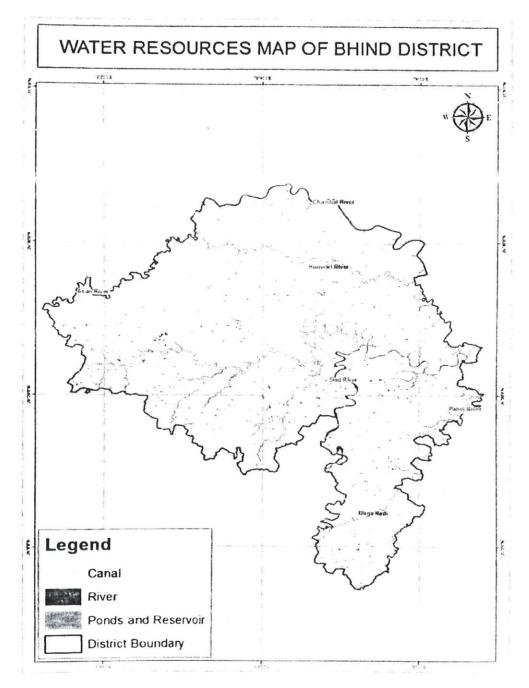
#### Surface Water

Chambal, Asad, Kunawari, Besali, Sindh and Pahuj rivers drain the area. Ravines & Gullies have developed along the course of all rivers particularly along the flood plains. A very fine network of gullies and forming dendritic drainage network characterizes these. The depth of dissection by gullies is more intense along the river Chambal as compared to others. The entire Bhind district lies in lower Chambal basin. Major tributaries are Kunwari, Asad, Besali, Sindh & Pahuj rivers.

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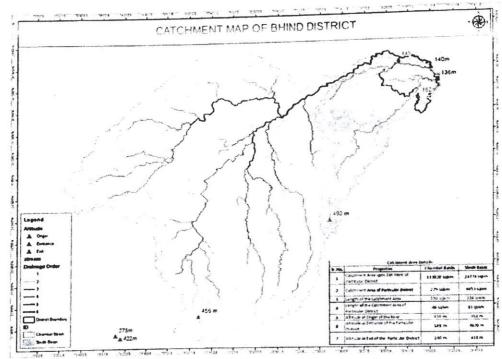
Water Resources Map of the District

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Catchment Map of District

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# **Details of Catchment Area**

Sr.No.	Properties	Chambal Basin	Sindh Basin
1	Catchment Area up to Exit Point of Particular District	133,020 sq. km	24,774 sq. km
2	Catchment Area of Particular District	279 sq. km	4,053 sq. km
3	Length of the Catchment Area	556 sq. km	324 sq. km
4	Length of the Catchment Area of Particular District	46 sq. km	81 sq. km
5	Altitude at Origin of the River	456 m	494 m
6	Altitude at Entrance of the Particular District	440 m	4670 m
7	Altitude at Exit of the Particular District	418 m	438 m



# Risk Assessment & Disaster Management Plan:

The Disaster Management Plan (DMP) is supposed to be a dynamic, changing, document focusing on continual improvement of emergency response planning and arrangements.

The disaster management plan is aimed to ensure safety of life, protection of environment, protection of installation, restoration of production and salvage operations in this same order of priorities. For effective implementation of the disaster management plan, it should be widely circulated and personnel training through rehearsals/induction conducted by the respective department from time to time.

### General Responsibilities during an Emergency

During an emergency, it becomes more enhanced and pronounced when an emergency warning is raised, the workers in-charge, should adopt safe and emergency shut down and attend any prescribed duty as essential employee. If no such responsibility is assigned, he should adopt a safe course to assembly point and await instructions. He should not resort to spread panic. On the other hand, he must assist emergency personnel towards objectives of DMP.

#### Co-ordination with Local Authorities

The mine manager who is responsible for emergency will always keep a jeep ready at site. eventualities the victim will be taken to the nearby hospitals after carrying out the first aid at site. A certified first aid certificate holder will be responsible to carry out the first aid at site. The mine manager should collect and have adequate information of the nearby hospitals, fire station, police station, village Panchayat heads, taxi stands, medical shop, district revenue authorities etc., and use them efficiently during the case of emergency.

## Disaster Management Plan

The objectives of DMP are to describe the company's emergency preparedness, organization, the resource availability and response actions applicable to deal with various types of situations that can occur at mines in shortest possible time.

Thus, the overall objectives of the emergency plan are summarized as: -

- Rapid control and containment of Hazardous situation
- Minimum the risk and impact of event/ accident
- Effective prevention of damage to property.

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- In order to achieve effectively the objectives of emergency planning, the critical elements that form the backbone of Disaster Management Plan (DMP) are: -
- Reliable and early detection of an emergency and immediate careful planning.
- The command, co-ordination and response organization structure along with availability of efficient trained personnel.
- The availability of resources for handling emergencies.
- Appropriate emergency response action.
- Effective notification and communication facilities.
- Regular review and updating DMP.
- Training of the concerned personnel.
- Steps taken for minimizing the effects may include rescue operations, first aid, evacuation, rehabilitation and communicating promptly to people living nearby.

Mining and allied activities are associated with several potential hazards to both the employees and the public at large. A worker in a mine will be able to work under conditions, which are adequately safe and healthy. At the same time the environmental conditions also will not impair his working efficiency. This is possible only when there is adequate safety in mines. Hence mine safety is one of the most essential aspects of any working mine. The safety of the mine and the employees is taken care of by the Mines Act 1952, which is well defined with laid down procedure to ensure safety and constantly monitored and supervised by Directorate General of Mines Safety and Department of Mines, State Government.

# Details of the Occupational Health issues in the District:

Open cast method involves dust generation by excavation, loading and transportation of mineral. At site, during excavation and loading activity, dust is main pollutant which affects the health of workers whereas environmental and climatic conditions also generate the health problems. Addressing the occupational health hazard means gaining an understanding of the source (its location and magnitude or concentration), identifying an exposure pathway (e.g., a means to get it in contact with someone), and determination of likely a receptor (someone receiving the stuff that is migrating).

Occupational hazard due to open cast mining mainly comes under the physical hazards. Possible physical hazards are as below: -

Physical Hazards ( ue to Mining Operations:

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Following health related hazards were identified in open cast mining operations to the workers:

**Light:** - The workers may be exposed to the risk of poor illumination or excessive brightness. The effects are eye strain, headache, eye pain and lachrymation, congestion around the cornea and eye fatigue. In present case, the mining activity is done during day time only.

**Heat and Humidity:** - The most common physical hazard is heat. The direct effects of heat exposure are burns, heat exhaustion, heat stroke and heat cramps; the indirect effects are decreased efficiency, increased fatigue and enhanced accident rates. Heat and humidity are endountered in hot and humid condition when temperatures and air temperatures increase in summer time up to 46.10C or above in the river bed mining area.

**Eye Irritation:** - During the high windy days in summer the dust could be the problems for eyes like itching and watering of eyes.

**Respiratory Problems:** - Large amounts of dust in air can be a health hazard, exacerbating respiratory disorders such as asthma and irritating the lungs and bronchial passages.

**Noise Induced Hearing Loss:** - Machinery is the main source of noise pollution at the mine site.

**Risk Level using Risk Matrix:** Risk Matrix is used to identify the level of risk involved in various hazards identified.

The CM&HO Bhind is responsible for the public Health activities and is in charge of the District Hospital, and the Civil and Ayurvedic dispensaries in the District. Administratively his office functions under the immediate control of the Joint Director of Health Services, Gwalior and under the overall control of the Director of Health Services Madhya Pradesh Bhopal.

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## Number of Health Centre's in Bhind District

	Blo	ck wise Distribution of Hospitals		
Block	Ayurvedic, Homeo & Yunani	PHC+ Allopathic	SHC	Allopathi c
Ater	11	7	33	30
Bhind	11	5	29	262
Mehgaon	12	5	4i	70
Gohad	7	4	30	60
Roan	4	2	22	30
Lahar	9	5	25	30
Total	54	28	180	452

#### Employees in formation of Health Centre's in Bhind District

		Medicala	nd Health En wise)	nployees	(Block		
Block	Medical Off	icer	Health Inspector	Nurse	Compounder	Others	Total
	Allopathic	Others	S	el eller var eller en eller en eller eller en eller elle	e magazir i mari monto	*Aggregista opposition	
Ater	9	11	•	56	13	78	167
Bhind	33	08	1	85	23	173	323
Mehgaon	09	11	•	64	15	91	190
Gohad	14	05	-	54	10	74	157
Roan	03	1	<b>-</b>	31	07	36	78
Lahar	09	7	-	40	12	57	125
Total	77	43	1	330	80	509	1040

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# Tuberculosis Patient's list of Bhind District.

Sr. No.	Year	No. of Patient in Govt. Hospital	No of Patient In Private Hospital	No of Active Patient in Govt. & Private Hospital
1	2017	2262	76	LOCAL CONTRACTOR CONTR
·	2208	551	551	00
·····	2019	2457	885	00
J.	2019	2551	566	00
5.	2021	2758	1272	765 Active Patient in Govt. Hospital and 357 Active Patient in Private Hospital from October 2021 to December 2021

#### Silicosis Patient's list of Bhind District.

S. no.	Village	No. of patients	Name of Patients	Age	Disease	Death
1.	Gohad	11	Shri Badansingh s/o Dharmjeet, gram dilipsingh ka pura	32	Silicosis	40 MA
2.	Gohad		Shri Jagram s/o Dharmjeet, Gram Dang Sarkar	62	Silicosis	West (respectively)
3.	Gohad		Shri Shivlal s/o Maanpal, Gram Dang Sarkar	70	Silicosis	The second secon
4.	Gohad		Shri Chotelal s/o Ramdeen,	53	Silicosis	- Walland
5.	Gohad	and the second s	Shri Maharaj Singh s/o Dharmjeet , Gram Dang Sarkar	55	Silicosis	The second secon
6.	Gohad	The state of the s	Smt Bisuna w/o Amarsingh, Gram Dang Sarkar	55	Silicosis	**
7.	Gohad	NA uniform condition unique	Shri Nathuram s/o Hargovind, Tonde wali Mata ka pura	A CONTRACTOR CONTRACTO	Silicosis	Dead
8.	Gohad	en e	Shri Asharam s/o Nanhelal , Gram Dang Sarkar		Silicosis	Dead
9.	Gohad	The control of the co	Shri Hakimsingh s/o Mahendrasingh	40	Silicosis	Dead
10.	Gohad	Processing and Proces	Shri Mangilal, Toliwali Mata		Silicosis	Dead
11.	Gohad	Accessing Agreementable	Shri Ramasare s/o Khutansingh, todewali Mata		Silicosis	Dead

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## Plantation and Green Belt Development in respect of lease granted in the District:

Mining activities result in pollution of the environment. This requires protection of our environment. Plantation is the oldest technology for the restoration of the land damaged by the human activities as well as air pollution.

Trees are highly suitable for the detection and monitoring of the air pollutants and have been effectively used at various places by planting trees we can achieve the dual purpose of bio aesthetics as well as mitigation of pollution. Proper planning and plantation scheme depends upon the magnitude and type of pollution, selection of pollution tolerant and dust capturing plants

The plants should be ever green, large leaved, with rough bark, ecologically compatible, with low water requirement, requiring minimum care, capable to absorb pollutants, pollutant resistant, agro climatically suitable, fast growing, free from wind throw and breakage and with high pollution tolerance index. The specious should be suitable to the climate, topography and soil. A minimum two rows of plantation will be carried out to minimize the effect of pollution. This would attenuate the pollutants level

Seondha Range of Datia Forest Division lie in the impact zone. The forest is a tropical dry deciduous mixed forest and tropical thorny scrub forest of density varying between 0.2 to 0.4. General site quality of the forests is V with some patches of site quality IVB. Greenbelt will be developed along the lease periphery covering 0.358 ha area. Native species will be planted like Amla, Neem, Pipal, Sissoo, Bargad, Mango, Amaltas, Karanj and about 1600 number of trees will be planted each year within safety zone, along approach Road, and in Village area and other places.

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#### Recommended Plant species for green belt development/plantation

S. No.	Botanical Name	Family	Common Name
1.	Acacia leucophloea	Fabaceae	safed kikkar
2.	Acacia nilotica	Fabaceae	Babool
3.	Azadirachta indica	Meliaceae	Neem
4.	Balanites aegyptica	Zygophyllaceae	Hingor / Hingot
5.	Cordia dicotoma	Boraginaceae	gunda
6.	Dalbergia sisoo	Fabaceae	Shisham
7.	Capparis sepiaria	Capparaceae	Kanthari
8.	Delonix regia	Csesalpiniaceae	Gulmohar
9.	Ficus religiosa	Moraceae	Pipal
10.	Miliusa tomentosa	Miliusa tomentosa	Annonaceae
11.	Prosopis cineraria	Mimosaceae	Shemi
12.	Prosopis juliflora	Mimosaceae	Junglee kikar
13.	Clerodendrum multiflorum	Verbenaceae	Arani
14.	Salvadora oleoides	Salvadoraceae	Bada Pilu
15.	Ziziphus oenoplea	Rhamnaceae	Makkay
16.	Capparis decidua	Capparaceae	Kair
17.	Ziziphus mauritiana	Rhamnaceae	ber
18.	Commiphora wightii	Bursersceae	guggul
19.	Jatropha curcas	Euphorbiaceae	Jamal Ghota
20.	Ricinus comunis	Euphorbiaceae	Arandi
21.	Securinega leucopyrus	Phyllanthaceae	Ghat baur
22.	Lantana indica	Verbraceae	Ghaneri
23.	Mimosa himalayana	Mimosaceae	Agla
24.	Grewia flavescens	Tiliaceae	Chapra
25.	Achyranthes aspera	Amaranthaceae	Chirchita
26.	Alysicarpus vaginalis	Fabaceae	Chauli

Plantation has been done by project proponent on Barrier Zone, Non Mining Area, Approach road, nearby river bank and ravines etc. as per the suggestions of the authority.



#### **CHPATER-12**

#### ADDITIONAL IMPORTANT PROSPECT OF THE SAND MINING

#### Monitoring System on Illegal Mining & Transportation

To curb the illegal mining and transportation system, three tire monitoring system is established in district.

#### a) District Level Monitor System

Mines surveillance system is implemented in Bhind district. All sand mining plots are digitally mapped with their geo reference (latitude and longitude) of the periphery of the leased. All sand carrying vehicle to issue a bar coded transit passes which invoice number is generated through online software system. Any government officer who registered with this system can check the sand carrying vehicle for the verification and take a legal action if it will illegal, overloaded or without transit passes.

District flying squad is working in the district that frequently checks the sand plots and routes of the sand carrying vehicle and take a legal action wherever found the illegal and transportation.

District Vigilance Committee headed Hon'ble Collector, Superintendent of Police, and District Mining Officer take a regular monthly review of illegal mining in the district and make a policy to curb the illegal mining activity in the district.

#### Impact on Surrounding Environment & Mitigation Measures

All development projects are likely to have an impact on the natural set up of the environment. This impact may be beneficial or adverse, depending on the improvement or the deterioration it brings about change in the status of air, water, land, ecology, natural systems, socio-cultural life styles and economics of the population. Depending on the nature of activities and baseline environment status, the impacts are assessed for their importance. On the basis of the impact analysis, the mitigating action and future monitoring requirement are focused in the Environmental Management plan for countering or minimizing the impacts.

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All possible mitigation measures associated with efficient management methods will be adopted for and management would become an integral component of the project.

#### b) Objectives of Environmental Monitoring

- Assessment of the prevailing baseline situation with regard to environmental problems such as air, water, soil and noise pollution;
- Quantification/ prediction of impact for the identified activities and to study level of impact on various environmental components.
- Evaluation of impacts after superimposing the predicted/ quantified scenario over the baseline scenario.
- Formulation of Environmental Management Plan for implementation in the proposed project.

c)	Post	<b>Environmental</b>	Clearance	Components:

A. AII	Environment:				
$\Box$	Ambient air qu	ality parameter	s recommended	for monitoring	with r

- Ambient air quality parameters recommended for monitoring with regard to mining activities are PM2.5, PM10 CO, SO2 & NOx
- Dust generation due to transportation material by tractor trolley per day.
- In mining activities, the only source of gaseous emissions is from the engines of transport vehicles.

#### d) Mitigation Measures:

- ☐ The roads will be maintained regularly.
- The loaded vehicles will be covered with tarpaulin.
- PUC certified vehicles will be used.
- Over loading will be avoided.
- Plantation will be carried out the approach road, river bank and vicinity area.
- Periodic air quality monitoring will be done and adequate measures will be taken.

#### e) Water Environment

Impact on water table to interception.

#### Mitigation Measures

- No waste water is generated from the mining activity of minor mineral.
- River streams will not be diverted to form inactive channels.
- Ground water will not be intersected during mining activities,
- ☐ Mobile toilets will be made available near mine's office away from the river.
- ☐ Washing of vehicles in the river will be prohibited

Noise Environment

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<b>1</b>	tractors will be source of noise pollution.
Mitig	ation Measures:
7-1	Sources of noise will be during loading and transport vehicles, for this proper maintenance will
	be done at regular intervals.
1.0	Vehicle will be maintained in good condition to avoid unnecessary noise.
1.1	The state of the s
	and of horns and speed think of to know in the vinage area.
Q	and the desired out the approach road, fiver bank and vienney area.
	Environment
	Est a smartin
	Surface degradation due to road network
1	River Bank Management/ River Bank Erosion
Miss	
wing	ation Measures:
4 10	Road will be maintained in good condition by using local earth material.
*:	Regular leveling of transportation route
ĩ.	
	Sand mining will create temporary activity in the dry river bed, which will be replenished during monsoon.
$\Omega$	The mining will not be carried out below the river water table.
Biolog	gical Environment
: }	Ecological impact on aquatic life, flora & fauna and surrounding habitat due to fugitive emission
Mitig	ation Measures:
- 1/4	No mining will be carried out during the monsoon season to minimize impact on aquatic life
£	which is mainly breeding season.
	The lease area is not inhabited by any wild life, as there is no forest cover. Hence there will not be any effect on migration or extinction of wild life.
į.	The riparian ecosystem or the wetlands will not be disturbed by the workers.
Occup	ational Health & Safety
	Impact on Occupational Health
Mitiga	tion Measures:
	Onsite basic first aid facility and PPE Will be provided.
	Provision of First Aid and Drinking Water, Temporary shed.
	Regular health check camp organized for Local employees.
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	Fencing of approach road for avoiding un-authorized entry to the proposed sand ghat.
	Provision of Boards displaying all information as regards to mining of sand including quantity, period of mining activity and details of project proponent.
ü	Display of warning signal boards at prominent locations.
	Deployment of adequate security arrangement.
	the state of the s
	period of mining activity and details of project proponent.
	Display of warning signal boards at prominent locations,
$\Box$	Deployment of adequate security arrangement.

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As per rule, After preparing the District Survey Report (DSR), District Survey Report Was uploaded on NIC collector portal & for general public public information published in daily Local & National New Paper for objection & Suggestion for period of 26 Days

As per DGM letter for Constitution of Committee for field Visit

Brief description of the above information is as follows



#### Letter from DGM

कार्यातय संचालक भौमिकी तथा खनिकर्म मध्यप्रदेश

२५-ए. ''खविज भवत'', अरेश हिल्स, भोपाल फोल एवं फैसरा : 0755-2551195 I mail dirgomna impute in

2981 क्रमंफ रहरिज विविधान के, 2022. भोपाल, विसंक ०३/३/२२

ufa.

समस्त कलेक्टर (खनि शासा) गध्यप्रदेश

सस्टेनेबल रोण्ड माइनिंग मेनेजमेट गाईडलाईन 2016 एव इनफासमट मानिर्देश फार सेण्ड माड्निंग 2020 के अंतर्गत रेत अभिज हेतु जिला सर्वेद्यण रिपोर्ट तैयार किये जाने के संबंध में।

प्रत्येक जिले में सरदेनेयल रोण्ड माइनिंग भेनेजमेंट गाईडलाईन 2016 एवं इजफोर्समेंट मालिटरिंग फार सेण्ड माइतिंग २०२० गाइडलाईन के तस्त्र जिला सर्वेक्षण रियोर्ट (डीएसआर) तैयार की जानी है। जिले की डीएसआर तैयार किये जाने की प्रक्रिया प्रचलन में है। माननीय सर्वोच्य त्यायालय द्वारा शिविल अपील क्रमांक 3661-3662/2020 विहार राज्य एवं अन्य विरुद्ध पथल कुमार एवं अन्य) में पारित आदेश दिलांक 10.11.2021 के अनुसार एवं सस्टेनेवल रोण्ड माइनिंग मेनेजमेंट गाईडलाईन 2016 एवं इनफोर्रामेंट मानिटरिंग फार रोण्ड माइनिंग 2020 के पालन में प्रारूप डीएसआर बिम्न समिति द्वारा तैयार की जानी है :-

- अनुविभागीय अधिकारी (राजस्य)
- जल संसाधन विभाग के अधिकारी 2
- राज्य प्रदूषंण नियंत्रण मण्डल के नामांकित अधिकारी 3.
- वन विभाग के अधिकारी
- जिले के खिन अधिकारी/संवालनालय भौमिकी तथा खनिकर्म द्वारा पदस्य अधिकारी उपरोक्तानुसार तैयार प्रारूप डीएसआर को जिला कलेक्टर द्वारा सिएक (SEAC) को अबेबित की जायेगी। सिएक (SEAC) द्वारा इसे सिया (SEIAA) को प्रेषित किया जायेगा।

उपरोक्त निर्देशों का पातन सुनिश्चित किया जाये।

(राकेश कुमार श्रीवास्तव) भा प के संवालक (प्रशासन एवं खनिकर्ग)

State Level Environment Impact Assessment Authority, M.P. (EPCO)

Paryayaran Parisar E-5, Arera Colony, Bhopal (M.P.)



#### Letter from collector to form Sub Divisional Committee

## कार्यालय कलेक्टर (खनिज शाखा) जिला गिण्ड (म.प्र.)

Email Id-modgmbhi@mp.gov.in

files, famin 30/3/22

### //आदेश//

क्रमांक — 5.30.3. /खनिज / 2022 — सम्मालक, भीमिकी सथा खनिकर्म, मध्यपर्दश भोपाल के पत्र क्रमांक 2081 / खनिज / विविध / त क्रा / 2022 भोपाल, दिनांक 03 03 2022 के मध्यम से निर्देश दिशे गये हैं कि प्रत्येक जिल्हें में सर्देनवल ग्रेण्ड माहिना मेनेजमेंट गाईडलाईन, 2015 एवं हमाधेसींट मानिटिश प्रार शब्द माहिना 2020 तथा भारतीय सर्वोद्ध न्यायालय ज्ञान व्याप्त अभाव क्रमांक 3661 3662 / 2020 (विदेश राज्य एवं अन्य साम्वीय सर्वोद्ध न्यायालय ज्ञान प्रति आदेश दिनांक 10.11.2021 के अनुसार जिला भिण्ड की जिला सर्वेक्षण रिपोर्ट (DSR) तैयार की जानी हैं। जिसमें निम्नानुसार समिति गठित की जाती हैं—

- अनुविभागीय अधिकारी (राजस्व) भिण्ड
- 2 कार्यपालन यंत्री, जल संसाधन विभाग, भिण्ड
- 3 राज्य प्रदूषण नियंत्रण मण्डल के नागांकित अधिकारी
- 4 वनमण्डलाधिकारी, सामान्य वनमण्डल भिण्ड
- 5 खनि अधिकारी, जिला भिण्ड/संवालनालय, भामिकी तथा खनिकर्म द्वारा पदस्थ अधिकारी

वृकि सचालनालय द्वारा डीएसआर तैयार किये जाने हेतु नियुक्त एजेंसी द्वारा प्रारूप डीएसआर तैयार किया जा घुका है, जिसका परीक्षण उच्च समिति द्वारा किया जाना है। अत उपरोक्तानुसार गठित समिति द्वारा प्रारूप डीएसआर का परीक्षण कर प्रतिवेदन प्रस्तुत किया जावे, जिसस अग्रिम कार्यधारी की जा सके। (यह आदेश तत्काल प्रभावशील होगा।)

> कलेक्टर जिला भिण्ड (म०५०) भिण्ड, दिनाक 30/3/22

प्**ठ**क्रमाक-53<u>.4</u> / खनिज/2022 प्रतिलिपि:-

प्रमुख सविव, म000 शासन, खनिज साधन विभाग, मंत्रालय वल्लम भवन भोषाल की ओर नुवानार्थ

राचालक भौमिकी तथा खनिकर्म, 29-ए, अरेस हिल्स नोपाल की ओर सूबनार्थ।

3 कार्यपालक संचालक, मप्र राज्य खनिज निगम भोपाल की और सूचनार्थ।

4 क्षेत्रीय अधिकारी, मप्र प्रदूषण नियंत्रण बोर्ड, दीनदयाल नगर हाउसिंग बोर्ड कालीनी ग्वालियर की आर. स्वयं अथवा नामांकित अधिकारी नियुक्त कर सूचित करने हेतु।

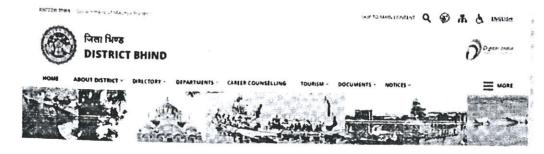
कलेक र जिला भिण्ड (म०५०)

Assessment Authority, M.P.

E-5, Arera Colony, Shopal (M.P.)



# District Survey Report uploaded on NIC portal Bhind



District Survey Report (DSR)



Assessment Authority, M.P.

Paryavaran Parisar
E-5, Arera Colony, Bhopal (M.P.)



Information published in daily & a National News Paper for objections & Suggestion for general public

# कार्यालय कलेक्टर (खनिज शाखा) जिला भिण्ड (म.प्र.)

Email-modgmbhi@mp.gov.in

क्रमांक-6486/खनिज/2022 भिण्ड,

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दिनांक: 16.11.2022

सूचना

एतर् द्वाग मर्च माधारण को भूचित किया जाता है कि जिला धिएट में रेन खिनिज हेतु जिला सर्वेक्षण रिपोर्ट (DSR) तैयार की गई है। जो कि जिला पोर्टल (bhind.nic.in) पर सूचना जारी होने की दिनौंक से 21 दिवस तक उपलब्ध होगी। उक्त जिला सर्वेक्षण रिपोर्ट के सम्बन्ध में आमजन के दावा/आपित्त ई-मेल modgmbhi@mp.gov.in पर अथवा खनिज कार्यालय में कार्यालयीन समय में स्वयं उपस्थित होकर प्रस्तुत किया जा सकता है। उक्त समयाविध के पश्चात् अथवा उक्त माध्यमों के अतिरिक्त किसी अन्य माध्यम से प्रस्तुत किये गये दावे/आपित स्वाव स्वीकार नहीं होंगे।

अपर कलेक्टर

जिला-भिण्ड ( म.प्र. )

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# कार्यालय कलेक्टर (खनिज शाखा) जिला भिण्ड (म.प्र.)

Email-modgmbhi@mp.gov.in

क्रमांक-6486/खनिज/2022

मिएड, दिनांक -16/11/2022

## सूचना

एतद् द्वारा सर्व साधारण को सूचित किया जाता है कि जिला भिण्ड में रेत खनिज हेतु जिला सर्वेक्षण रिपोर्ट (DSR) तैयार की गई है। जो कि जिला पोर्टल (bhind.nic.in) पर मूचना जारी होने की दिनांक से 21 दिवस तक उपलब्ध होगी। उक्त जिला सर्वेक्षण रिपोर्ट के संबंध में आमजन के दावा/आपित ई-मेल modgmbhi@mp.gov.in पर अथवा खनिज कार्यालय में कार्यालयीन समय में स्वयं उपस्थित होकर प्रस्तुत किया जा सकता है। उक्त समयावधि के पश्चात् अथवा उक्त माध्यमों के अतिरिक्त किसी अन्य माध्यम से प्रस्तुत किये गये दावे/आपित्त/सुझाव स्वीकार नहीं होंगे।

अपर कलेक्टर जिला-भिण्ड (म.प्र.)

