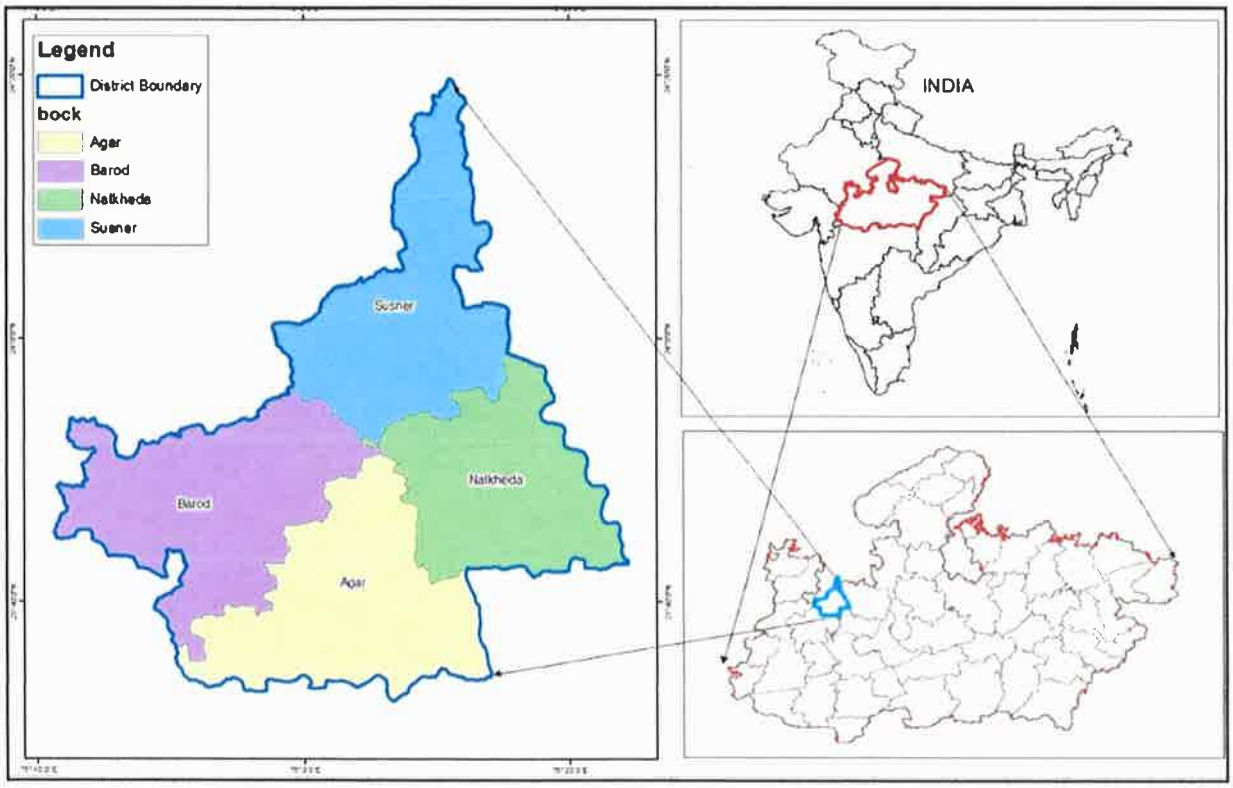
DISTRICT SURVEY REPORT
(MINERAL SAND)
DISTRICT AGAR- MALWA, M.P.



In pursuance to the Gazette Notification, Ministry of Environment, Forest and Climate Change (MoEF& CC), the Government of India Notification No S.O. 141 (E) Appendix– X, Dated 15.01.2016 & S.O. 3611 (E) New Delhi, 25th July 2018 laid procedure for preparation of District Survey Report of sand mining or river bed mining keeping in mind the "Sustainable Sand Management Guidelines 2016" which focuses on the Management of Sand Mining in the Country and "Enforcement & Monitoring Guidelines for Sand Mining-2020" which focus on prevention of illegal mining in the country.

State Level Environment Impact Assessment Authority, M.P.

प्रभारी अधिकारी
(खनिज शाखा)
जिला आगर मालवा (म.प्र.)

प्रभारी अधिकारी
खनिज
जिला आगर-मालवा

Sand

कार्यालय कलेक्टर (खनिज शाखा) जिला-आगर मालवा (म.प्र.)

E-mail: modgmaga@mp.gov.in, Website:- agarmalwa.mp.gov.in

क्रमांक/2126 /खनिज/2022 आगर मालवा दिनांक 02/09/2022

प्रति,

सदस्य सचिव,
राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC)
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी,
भोपाल (म.प्र.)

विषयः- अनुमोदन हेतु संशोधित जिला सर्वेक्षण रिपोर्ट (खनिज रेत) प्रस्तुत करने बाबत् ।

संदर्भः- राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण म.प्र. का पत्र क्रमांक 1464/SEIAA/2022 दिनांक 26.08.2022 ।

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उपरोक्त विषयांतर्गत लेख है कि, पूर्व में खनिज रेत हेतु जिला सर्वेक्षण रिपोर्ट गठित समिति द्वारा अनुमोदित की जाकर पत्र क्रमांक/1926/खनिज/2022 आगर मालवा दिनांक 22.06.2022 से अनुमोदन हेतु सेक को प्रेषित की गई थी । राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण म.प्र. द्वारा पत्र क्रमांक 1464/SEIAA/2022 दिनांक 26.08.2022 से संशोधन हेतु निर्देश दिए गए । जिसके पालन में जिला सर्वेक्षण रिपोर्ट में आवश्यक संशोधन कर अद्यतन संशोधित जिला सर्वेक्षण रिपोर्ट अनुमोदन की अग्रिम कार्यवाही हेतु पत्र के साथ संप्रेषित है ।

संलग्नः- संशोधित जिला सर्वेक्षण रिपोर्ट खनिज रेत

कलेक्टर
जिला आगर मालवा (म.प्र.)

पृ.क्रमांक/ /खनिज/2022 आगर मालवा दिनांक ...../09/2022

प्रतिलिपिः-

1. प्रमुख सचिव महोदय म.प्र. शासन खनिज साधन विभाग मंत्रालय वल्लभ भवन, भोपाल की ओर सूचनार्थ संप्रेषित ।
2. संचालक, प्रशासन एवं खनिकर्म (.प्र.म) भोपाल ,अरेरा हिल्स 'खनिज भवन' ए-29 ,की ओर सूचनार्थ संप्रेषित ।
3. सदस्य-सचिव, राज्य स्तरीय पर्यावरण सामाघात निर्धारण प्राधिकरण म.प्र. (SEIAA) की ओर सूचनार्थ संप्रेषित ।
4. क्षेत्रीय प्रमुख, संचालनालय भौमिकी तथा खनिकर्म, क्षेत्रीय कार्यालय ~~ज्बलपुर~~ म.प्र. की ओर सूचनार्थ । इन्दौर

कलेक्टर
जिला आगर मालवा (म.प्र.)

कार्यालय कलेक्टर (खनिज शाखा) जिला-आगर मालवा (म.प्र.)

E-mail: modgmaga@mp.gov.in, Website:- agarmalwa.mp.gov.in

क्रमांक/ 2090 /खनिज/2022 आगर मालवा दिनांक 31.../08/2022

प्रति,

सदस्य सचिव,
राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC)
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी,
भोपाल (म.प्र.)

विषयः- अनुमोदन हेतु संशोधित जिला सर्वेक्षण रिपोर्ट (खनिज रेत) प्रस्तुत करने बाबत्।

संदर्भः- राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण म.प्र. का पत्र क्रमांक 1464/SEIAA/2022 दिनांक 26.08.2022।

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उपरोक्त विषयांतर्गत लेख है कि, पूर्व में खनिज रेत हेतु जिला सर्वेक्षण रिपोर्ट गठित समिति द्वारा अनुमोदित की जाकर पत्र क्रमांक/1926/खनिज/2022 आगर मालवा दिनांक 22.06.2022 से अनुमोदन हेतु सेक को प्रेषित की गई थी। राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण म.प्र. द्वारा पत्र क्रमांक 1464/SEIAA/2022 दिनांक 26.08.2022 से संशोधन हेतु निर्देश दिए गए। जिसके पालन में जिला सर्वेक्षण रिपोर्ट में आवश्यक संशोधन कर अद्यतन संशोधित जिला सर्वेक्षण रिपोर्ट अनुमोदन की अग्रिम कार्यवाही हेतु पत्र के साथ संप्रेषित है।

संलग्नः- संशोधित जिला सर्वेक्षण रिपोर्ट खनिज रेत

प्रभारी अधिकारी
(खनिज शाखा)
जिला आगर मालवा (म.प्र.)

पृ.क्रमांक/ /खनिज/2022 आगर मालवा दिनांक ...../08/2022

प्रतिलिपिः-

1. प्रमुख सचिव महोदय म.प्र. शासन खनिज साधन विभाग मंत्रालय वल्लभ भवन, भोपाल की ओर सूचनार्थ संप्रेषित।
2. संचालक, प्रशासन एवं खनिकर्म (.प्र.म) भोपाल ,अरेरा हिल्स 'खनिज भवन' ए-29 ,की ओर सूचनार्थ संप्रेषित।
3. सदस्य-सचिव, राज्य स्तरीय पर्यावरण सामाघात निर्धारण प्राधिकरण म.प्र. (SEIAA) की ओर सूचनार्थ संप्रेषित।
4. क्षेत्रीय प्रमुख, संचालनालय भौमिकी तथा खनिकर्म, क्षेत्रीय कार्यालय जबलपुर म.प्र. की ओर सूचनार्थ।

प्रभारी अधिकारी
(खनिज शाखा)
जिला आगर मालवा (म.प्र.)

प्रभारी अधिकारी
खनिज
जिला आगर-मालवा

कार्यालय कलेक्टर (खनिज शाखा) जिला-आगर मालवा (म.प्र.)

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क्रमांक/1926 /खनिज/2022 आगर मालवा दिनांक 22./06/2022

प्रति,

सदस्य सचिव,
राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC)
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी,
भोपाल (म.प्र.)

विषयः- जिला सर्वेक्षण रिपोर्ट (DSR) 2021 के संबंध में।

संदर्भः- संचालक भौमिकी तथा खनिकर्म भोपाल का पत्र क्रमांक/2981/खनिज/विविध/न.क्र./2022 दिनांक 03/03/2022।

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उपरोक्त विषयांतर्गत माननीय सर्वोच्च न्यायालय द्वारा सिविल अपील क्रमांक 3661-3662/2020 (बिहार राज्य एवं अन्य विरूद्ध पवन कुमार एवं अन्य) में पारित आदेश दिनांक 10.11.2021, भारत सरकार पर्यावरण, वन एवं जलवायु मंत्रालय द्वारा जारी अधिसूचना दिनांक 15.01.2016 तथा अधिसूचना दिनांक 25.07.2018 सस्टेनेबल सेण्ड माईनिंग मेनेजमेन्ट गाईडलाईन 2016 एवं इनफोर्समेन्ट मानिटरिंग फार सेण्ड माईनिंग 2020 गाईड लाईन के पालन में संचालक (प्रशासन एवं खनिकर्म) भोपाल के संदर्भित पत्र में वर्णित दिशा-निर्देशानुसार गठित समिति द्वारा प्रारूप जिला सर्वेक्षण रिपोर्ट खनिज (रेत) हेतु तैयार की जाकर अनुमोदन हेतु अनुशंसा की गई है।

अतः उपरोक्तानुसार समिति द्वारा अनुसंशित जिला सर्वेक्षण रिपोर्ट खनिज (रेत) हेतु अनुमोदित की जाकर अग्रिम कार्यवाही हेतु पत्र के साथ संप्रेषित है।

संलग्नः- सर्वेक्षण रिपोर्ट (DSR) 2021

ह/-
कलेक्टर
जिला आगर मालवा (म.प्र.)

पृ.क्रमांक/1927 /खनिज/2022 आगर मालवा दिनांक 22./06/2022

प्रतिलिपिः-

1. प्रमुख सचिव महोदय म.प्र. शासन खनिज साधन विभाग मंत्रालय वल्लभ भवन, भोपाल की ओर सूचनार्थ संप्रेषित।
2. संचालक, प्रशासन एवं खनिकर्म, 29-ए 'खनिज भवन' अरेरा हिल्स, भोपाल (म.प्र.) की ओर सूचनार्थ संप्रेषित।
3. सदस्य-सचिव, राज्य स्तरीय पर्यावरण सामाघात निर्धारण प्राधिकरण म.प्र. (SEIAA) की ओर सूचनार्थ संप्रेषित।
4. क्षेत्रीय प्रमुख, संचालनालय भौमिकी तथा खनिकर्म, क्षेत्रीय कार्यालय इंदौर म.प्र. की ओर सूचनार्थ।

प्रभारी अधिकारी
खनिज
जिला आगर-मालवा

ह/-
कलेक्टर
जिला आगर मालवा (म.प्र.)

कार्यालय कलेक्टर (खनिज शाखा) जिला–आगर मालवा (म0प्र0)

कमांक/खनिज/2022/1524 आगर–मालवा दिनांक 31/03/2022

–:: आदेश ::–

उपरोक्त विषयांकित संदर्भित पत्र के परिपालन में प्रत्येक जिले में सस्टेनेबल सेण्ड माईनिंग मेनेजमेंन्ट गाईडलाईन 2016 एवं इनफोर्समेंट मानिटरिंग फार सेण्ड माईनिंग 2020 के अंतर्गत रेत खनिज हेतु जिला सर्वेक्षण रिर्पोट तैयार किया जाना है। माननीय सर्वोच्च न्यायालय द्वारा सिविल अपील कमांक 3661–3662/2020 (बिहार राज्य एवं अन्य विरूद्व पवन कुमार एवं अन्य) मे पारित आदेश दिनांक 10.11.2021 के अनुसार एवं सस्टेनेबल सेण्ड माईनिंग मेनेजमेन्ट गाईडलाईन 2016 एवं इनफोर्समेंट फार सेण्ड माईनिंग 2020 के पालन में प्रारूप डी.एस.आर रिर्पोट तैयार करने हेतु निम्नानुसार समति गठित की जाती है :–

1. श्री सोहन कनाश अनुविभागीय अधिकारी (राजस्व) सुसनेर–नलखेडा जिला आगर मालवा
2. श्री हेमन्त कुमार तिवारी (क्षेत्रीय प्रदूषण नियंत्रण अधिकारी) उज्जैन
3. श्री अंकित जामोद उप वनमण्डलाधिकारी अधिकारी जिला आगर मालवा
4. श्री सतीश कुमार मिश्रा प्रभारी अधिकारी (खनिज शाखा) जिला आगर मालवा
5. श्री अनमोल टोपो सहायक यंत्री जल संसाधन विभाग आगर–मालवा

अतः उक्त गठित समति डी.एस.आर रिर्पोट तैयार कर प्रस्तुत करना सुनिश्चित करे।

कलेक्टर
जिला आगर–मालवा

कमांक/खनिज/2022/ आगर–मालवा दिनांक / /2022

प्रतिलिपि :–

1. श्री सोहन कनाश, अनुविभागीय अधिकारी (राजस्व) सुसनेर–नलखेडा जिला आगर मालवा की ओर सूचनार्थ एवं पालनार्थ।
2. श्री हेमन्त कुमार तिवारी (क्षेत्रीय प्रदूषण नियंत्रण अधिकारी) उज्जैन की ओर सूचनार्थ एवं पालनार्थ।
3. श्री अंकित जामोद उप वनमण्डलाधिकारी अधिकारी जिला आगर मालवा की ओर सूचनार्थ एवं पालनार्थ।
4. श्री सतीश कुमार मिश्रा प्रभारी अधिकारी (खनिज शाखा) जिला आगर मालवा की ओर सूचनार्थ एवं पालनार्थ
5. श्री अनमोल टोपो सहायक यंत्री जल संसाधन विभाग आगर–मालवा की ओर सूचनार्थ एवं पालनार्थ।

प्रभारी अधिकारी
खनिज
जिला आगर-मालवा

कलेक्टर
जिला आगर–मालवा

माननीय सर्वोच्च न्यायालय द्वारा सिविल अपील क्रमांक 3661-3662/2020 (बिहार राज्य एवं अन्य विरूद्ध पवन कुमार एवं अन्य) में पारित आदेश दिनांक 10.11.2021, भारत सरकार पर्यावरण, वन एवं जलवायु मंत्रालय द्वारा जारी अधिसूचना दिनांक 15.01.2016 तथा अधिसूचना दिनांक 25.07.2018 सस्टेनेबल सेण्ड माईनिंग मेनेजमेन्ट गाईडलाईन 2016 एवं इनफोर्समेन्ट मानिटरिंग फार सेण्ड माईनिंग 2020 गाईड लाईन के पालन में संचालक (प्रशासन एवं खनिकर्म) भोपाल के आदेश क्रमांक/2981/खनिज/विविध/न.क्र./2022 दिनांक 03/03/2022 तथा कलेक्टर महोदय जिला आगर मालवा आदेश क्रमांक/खनिज/2022/1524 आगर मालवा दिनांक 31.03.2022 के पालन मे प्रारुप जिला सर्वेक्षण रिपोर्ट (डीएसआर) तैयार किया जाने हेतु गठित समिति द्वारा खनिज रेत हेतु जिला सर्वेक्षण रिपोर्ट तैयार कर अनुशंसित की गई है :-

क्रमांक	अधिकारी का नाम	पदनाम	हस्ताक्षर
1.	श्री सोहन कनाश	अनुविभागीय अधिकारी (राजस्व) सुसनेर- नलखेडा जिला आगर मालवा	
2.	श्री हेमन्त कुमार तिवारी	(क्षेत्रीय प्रदूषण नियंत्रण अधिकारी) उज्जैन	H. K. TIWARI Regional Officer M.P. Pollution Control Board, Ujjain
3.	श्री अंकित जामोद	उप वनमण्डलाधिकारी जिला आगर मालवा	उप वनमंडलाधिकारी आगर-मालवा
4.	श्री सतीश कुमार मिश्रा	प्रभारी अधिकारी (खनिज शाखा) जिला आगर मालवा	प्रभारी अधिकारी (खनिज शाखा) जिला आगर मालवा
5.	श्री अनमोल टोपो	सहायक यंत्री (जल संसाधन विभाग) जिला आगर मालवा	अनुविभागीय अधिकारी कालड (जि. आगर)

प्रभारी अधिकारी खनिज जिला आगर-मालवा

कार्यालय कलेक्टर (खनिज शाखा) जिला-आगर मालवा (म.प्र.)

E-mail: modgmaga@mp.gov.in, Website:- agarmalwa.mp.gov.in

क्रमांक/ 1604 /खनिज/2022 आगर मालवा दिनांक 29../04/2022

प्रति,

जिला सूचना एवं विज्ञान अधिकारी,
कार्यालय कलेक्टर (एन.आई.सी)
जिला आगर मालवा (म.प्र.)

विषयः- सस्टेनेबल सेण्ड माईनिंग मेनेजमेंट गाईडलाईन 2016 एवं इनफोर्समेंट मानिटरिंग फार सेण्ड माईनिंग 2020 के अंतर्गत खनिज रेत एवं अन्य गौण खनिज हेतु पृथक-पृथक जिला सर्वेक्षण रिपोर्ट तैयार किये जाने के संबंध में।

संदर्भः- कार्यालय कलेक्टर (खनिज शाखा) जिला आगर मालवा का पत्र क्रमांक/खनिज/2022/1524 आगर मालवा दिनांक 31.03.2022।

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उपरोक्त विषय में माननीय सर्वोच्च न्यायालय द्वारा सिविल अपील क्रमांक 3661-3662/2022 (बिहार राज्य एवं अन्य विरूद्ध पवन कुमार एवं अन्य) में पारित आदेश दिनांक 10.11.2021, भारत सरकार पर्यावरण, वन एवं जलवायु मंत्रालय द्वारा जारी अधिसूचना दिनांक 15.01.2016 तथा अधिसूचना दिनांक 25.07.2018 सस्टेनेबल सेण्ड माईनिंग मेनेजमेन्ट गाईडलाईन 2016 एवं इनफोर्समेन्ट मानिटरिंग फार सेण्ड माईनिंग 2020 गाईड लाईन के पालन में संचालक (प्रशासन एवं खनिकर्म) भोपाल के संदर्भित पत्र में वर्णित दिशा-निर्देशानुसार वर्ष 2021-22 हेतु प्रारूप जिला सर्वेक्षण रिपोर्ट (डीएसआर) तैयार किया जाने हेतु गठित समिति द्वारा खनिज रेत एवं अन्य गौण खनिज हेतु पृथक-पृथक तैयार की गई है। संचालक प्रशासन एवं खनिकर्म भोपाल के पत्र क्रमांक 2981/खनिज/विविध/न.क./2022 दिनांक 03.03.2022 में वर्णित दिशा निर्देशानुसार गठित समिति द्वारा वर्ष 2021-22 हेतु अनुमोदित जिला सर्वेक्षण रिपोर्ट (डीएसआर) आमजन के अवलोकन/सुझाव हेतु 21 दिवस के लिए कलेक्टर कार्यालय में एक प्रति रखे जाने तथा जिले के एन.आई.सी. पोर्टल पर प्रदर्शित किये जाने के निर्देश दिए गए हैं।

अतः उपरोक्तानुसार अनुमोदित जिला सर्वेक्षण रिपोर्ट (डीएसआर) प्रारूप, पत्र के संलग्न प्रेषित कर लेख है कि उन्हे आमजन के अवलोकन/सुझाव हेतु 21 दिवस के लिये कलेक्टर कार्यालय जिला आगर मालवा के एन.आई.सी. पोर्टल पर पोस्ट/दर्शित किया जाने हेतु उचित कार्यवाही करने का कष्ट करें।

प्रभारी अधिकारी
(खनिज शाखा)
जिला आगर मालवा (म.प्र.)

पृ.क्रमांक/ 1605 /खनिज/2022 आगर मालवा दिनांक 29../04/2022

प्रतिलिपिः-

1. सदस्य-सचिव, मध्यप्रदेश राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (MPSEAC) की ओर सूचनार्थ।
2. संचालक (प्रशासन एवं खनिकर्म) खनिज भवन, अरेरा हिल्स, भोपाल की ओर सादर सूचनार्थ।
3. कलेक्टर जिला आगर मालवा की ओर सादर सूचनार्थ।
4. अवर सचिव म.प्र. शासन खनिज साधन विभाग मंत्रालय वल्लभ भवन, भोपाल की ओर सूचनार्थ।
5. संबंधित (सभी)..... की ओर सूचनार्थ संप्रेषित।

प्रभारी अधिकारी
(खनिज शाखा)
जिला आगर मालवा (म.प्र.)

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Arera Colony, Bhopal (M.P.)

District Survey Report: Agar Malwa

1 Introduction

In pursuance to the Gazette Notification, Ministry of Environment, Forest and Climate Change (MoEF & CC), the **Government of India Notification No S.O. 141 (E) Appendix–X, Dated 15.01.2016 & S.O. 3611 (E) New Delhi, 25th July 2018** laid procedure for preparation of District Survey Report of sand mining or river bed mining. The main purpose of preparation of District Survey Report (DSR) is to identify the Sand resources and developing the sand mining activities along with other relevant data of the district.

The process of making a DSR includes:

- Collection of baseline data from the department
- Development of related maps from satellite and secondary sources
- Understanding river flows and sedimentation vis-à-vis sand mining
- Tabulation and mapping of existing sand mining locations and yield
- Correlation with satellite data for pre and post monsoon sand yield
- Suggesting new locations for sand mining approvals
- Design and Development of DSR as per MoEF guidelines
- Interaction with line department for data / document ownership

For the first time, the Ministry of Environment, Forests and Climate Change (MoEF&CC) has released guidelines to monitor and check illegal sand mining in the country.

- Sustainable Sand Management Guidelines (SSMG), 2016 focuses on the management of sand mining, but there was a need to have guidelines for effective enforcement of regulatory provisions and their monitoring.
- The 2020 guidelines are to be enforced simultaneously with the SSMG, 2016, in case of conflict; the new set will hold legal precedence. 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.
- However, 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.

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- Illegal and uncontrolled illegal mining also leads to loss of revenue to the State and degradation of the environment.

The fair and rapid advancement of technology in country has enabled surveillance and remote monitoring in the field of mining for the effective monitoring of the mining activities, particularly, sand mining. States are now utilizing remote sensing to prevent illegal mining. Rules have been made to prevent 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. Thus, an effective policy for monitoring of sand mining in the Country has been enforced focusing 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.

- 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 and put detailed survey reports of all mining areas in the public domain.
- Transparency: Online sales and purchase of sand and other riverbed materials (RBM) for transparency in the process.
- 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 impacts arising due to excessive sand extraction.

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- While the Sustainable Sand Mining Guidelines, 2016, require the preparation of District Survey Reports (DSR), which is an important initial step before grant of mining lease, the government has found that the DSRs carried out by state and district administrations are often not comprehensive enough, allowing space for illegal mining.

Location and boundaries:

Agar Malwa is a town with a municipal government in the state of Madhya Pradesh, India. It is the administrative headquarters for the Agar Malwa District which was formed in 2013 from a part of Shajapur District. The town is situated along the Ujjain—Kota SH-27 highway. The height of this tract varies between 500 metres (1,600 ft) and 545 meters (1,788 ft) above the mean sea level and it slopes towards the north.

Agar Malwa District is a district of Madhya Pradesh state in central India. The city of Agar is the administrative headquarters of the district. The western part of the district is marked by the Agar Plateau that covers the major areas of Agar Malwa district. There is a hill tract to the west of the town of Badod, showing scattered hillocks in a north-south direction. The presence of hills in the center has affected the drainage pattern. The district is bounded in the East by Rajgarh district, in the south by Shajapur & Ujjain and in the North by Rajasthan State.

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District Survey Report: Agar Malwa

History: It was a division during the Sindhia state (some of their palaces are still presently used for city court and for other government offices). It was formerly a cantonment region at the time of India's independence because of the favorable weather and the availability of water. It was a district under the state of Madhya Bharat after the independence of India until 1956. Since 16 August 2013 Agar Malwa has been the 51st district of Madhya Pradesh. The district was formed by removing Agar, Badod, Susner and Nalkheda tehsils from Shajapur District, decreasing its size. It was formerly a cantonment region at the time of India's independence because of the favorable weather and the availability of water. It was a district under the state of Madhya Bharat after the independence of India until 1956. Since 16 August2013 Agar Malwa has been the 51st district of Madhya Pradesh.

General Feature

Table 1 Administrative Setup of the District

TEHSIL	BLOCKS
Agar	Agar
Barod	Barod
Susner	Susner
Nalkheda	Nalkheda

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Location of the District

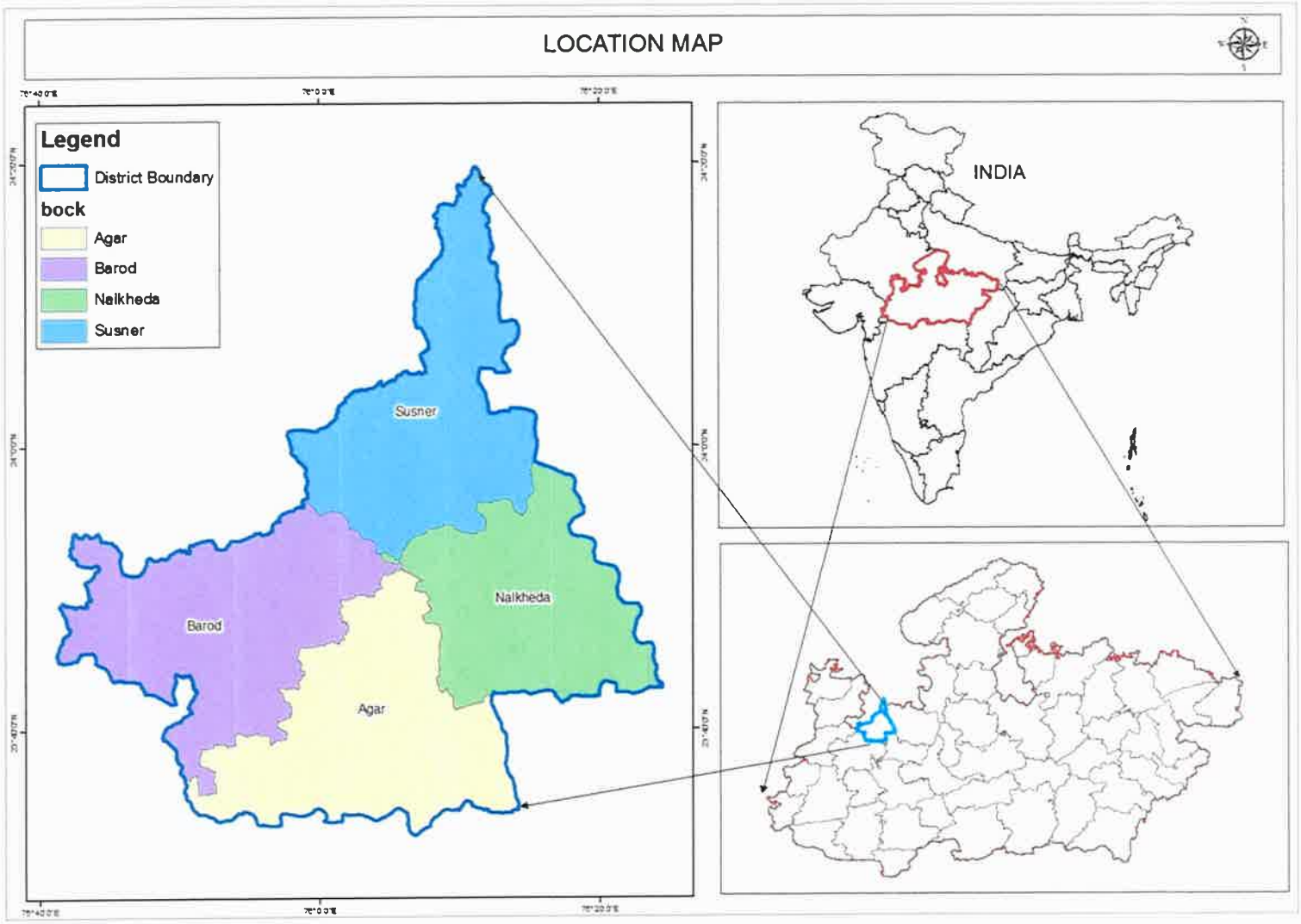

Figure 1 Location Map of the District

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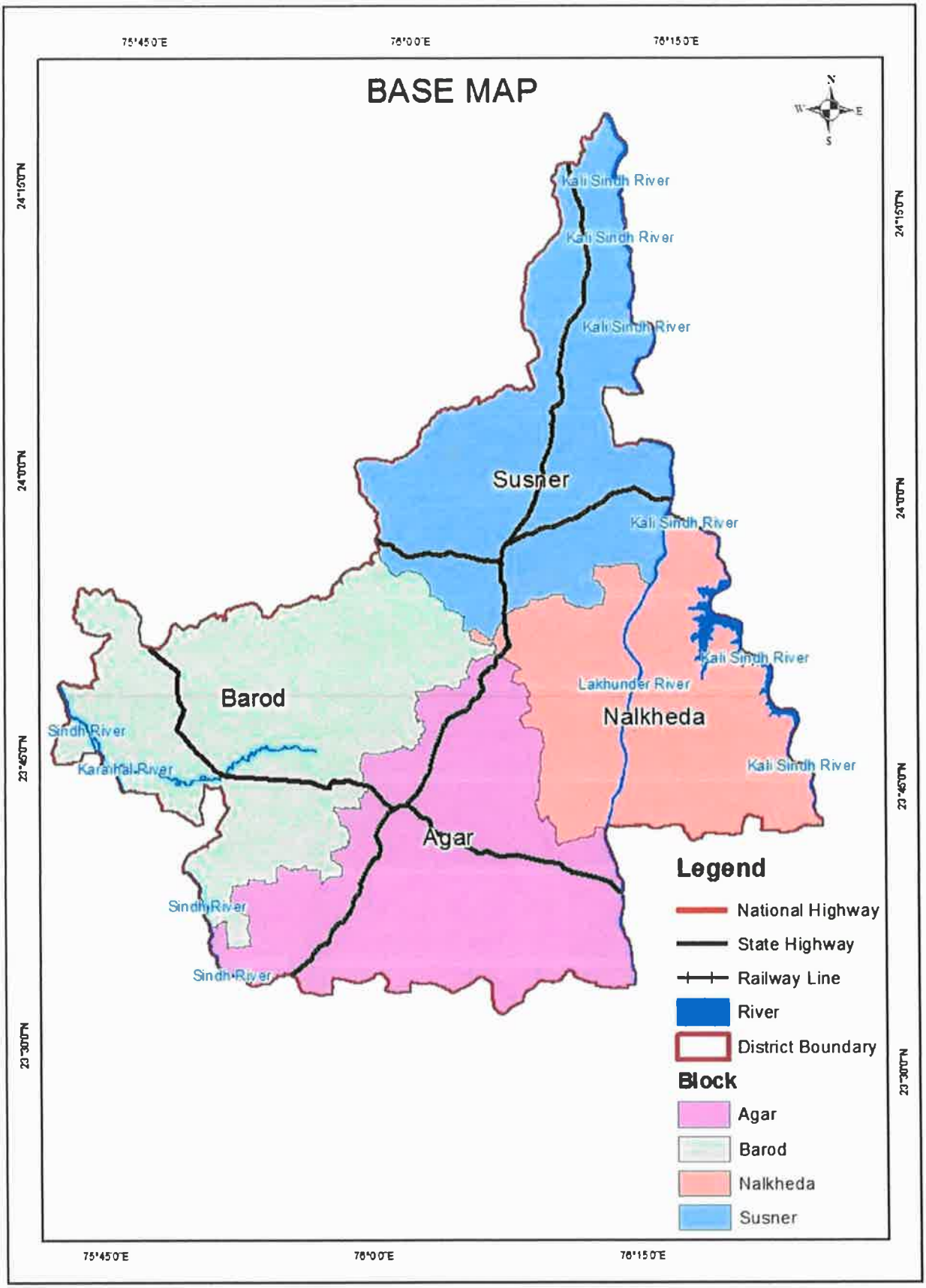

Figure 2 Base Map of the District

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2 Overview of Mining Activity in the District

The district does not have any major minerals. Mainly, only minor minerals like boulder, Gitti and Murrum are found in Agar Malwa. Basalt is a main rock for production of gitti and boulder stone. Apart from basalt rock, sand is found in rivers which is black and is of low quality. There is possibility of laterite in certain parts of the districts such as kasba Agar, Jamuniya, Baijnath, Nipaniya, Ghosipura, Kashibardiya, Bapcha, Binayaka, Kakariya, Barkheda, Kankdel, Amla etc. there are total 72 minor minerals sanction mines in the district out of which 59 for minerals gitti stone, 11 for sand, one for murum and one for laterite. presently 52 gitti mines are working and 7 non working. Murum and laterite mines are also non working. All mines are open cast mine in the district. Total revenue received for 2021-2022 4.82 cr. This is in increasing order from last three years. It shows that district has good potential for revenue generation and exploration in future for laterite mineral.

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3 List of the existing sand Mines in the District

3.1 Sand Mine in the District

Table 2 Sand Mines in the District

S. No.	Details of the Mine						
	Village	Tehsil	Khasra No.	Area in Ha.	Estimated Production	Coordinates	
1	Lalakhedi	Susner	600	3.000	3000	24°03'58.92" N	76°09'34.53"E
						24°03'59.15"N	76°09'36.16"E
						24°03'37.07"N	76°09'41.15"E
						24°03'36.45"N	76°09'39.86"E
2	Pithapura	Susner	365	4.770	5000	24°05'57.67"N	76°08'53.36"E
						24°05'56.62"N	76°08'55.11"E
						24°05'33.51"N	76°08'34.46"E
						23°05'34.78"N	76°08'32.77"E
3	Dhaturia	Susner	473, 486, 507	3.750	6000	24°04'40.57"N	76°07'56.78"E
						24°04'39.55"N	76°07'57.28"E
						24°04'06.97"N	76°07'23.29"E
						24°04'07.37"N	76°07'22.03"E
4	Diwankhedi	Susner	01, 580	3.640	3000	24°06'51.50"N	76°09'26.37"E
						24°06'52.09"N	76°09'29.91"E
						24°07'17.41"N	76°07'17.41"E
						24°07'17.58"N	76°09'28.00"E

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5	Datyakhedi	Susner	61	2.350	2500	24°07'56.18"N	76°09'55.60"E
						24°08'05.00"N	76°09'55.60"E
						24°08'05.18"N	76°09'52.90"E
						24°07'57.28"N	76°09'38.23"E
6	Ghatakhedi	Susner	1, 2	8.480	16000	24°02'34.38"N	76°14'31.02"E
						24°02'23.20"N	76°15'08.00"E
						24°02'26.32"N	76°15'12.05"E
						24°02'40.88"N	76°14'32.47"E
7	Kheda Narela 1	Barod	577	4.600	8000	23°43'34.75"N	75°45'08.67"E
						23°43'35.03"N	75°45'09.74"E
						23°43'41.94"N	75°45'05.88"E
						23°43'42.31"N	75°45'07.20"E
8	Dodri	Barod	2	4.900	4000	23°48'03.84"N	75°41'50.52"E
						23°48'04.59"N	75°41'42.11"E
						23°47'30.18"N	76°42'00.61"E
						23°47'29.68"N	75°41'59.09"E
9	Kheda Narela (2)	Barod	1	8.700	8000	23°44'26.07"N	75°45'53.89"E
						23°44'28.19"N	75°46'23.08"E
						23°44'15.48"N	75°47'18.21"E
						23°44'38.66"N	75°46'13.23"E
10	Vinayga Agar	Barod	1, 918	3.35	3000	25°53'29.11"N	76°00'33.37"E
						23°53'50.19"N	76°00'39.39"E
						23°54'16.40"N	76°00'25.34"E
						23°54'33.08"N	76°00'10.53"E
11	Mangwaliya	Barod	1	5.380	5000	23°49'00.60"N	76°01'24.40"E
						23°49'28.35"N	76°01'29.75"E
						23°49'46.74"N	76°01'27.23"E
						23°50'07.19"N	76°01'27.74"E

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4 Details of Royalty or Revenue received in last three years for Sand Mine (2018-2019, 2019-2020 and 2020-2021):

Table 3 Revenue received in last three years for Sand Mine

Year	Mineral Name	Revenue (In Rs.)
2018 – 2019	Sand	6,19,531
2019– 2020	Sand	5,11,717
2020– 2021	Sand	27,40,501

5 Details of Production of Mineral Sand in last 3 years (2018-19, 2019-20 and 2020-21):

Table 4 Sand Production in last 3 years

Year	Mineral Name	Production(In Cu.Mt)
2018 – 2019	Sand	6094.76
2019– 2020	Sand	7175.6
2020– 2021	Sand	1465.1

6 Process of Deposition/Replenishment of sediment in the rivers of the district

6.1 Formation of Sand

Majority of rivers originate from mountains and as they continue their journey with force, through these mountains, the bigger rocks and boulders disintegrate slowly, and over a period of time, starts rolling down as fragments. These fragments become smaller and smaller due to weathering process by water, wind and other rocks. Thus, developed sand particles are transported, washed and stored and again transported during floods and deposited at river beds and largely on river shores.In case the sand deposits are mined / removed, cavities are formed in their place and again filled during next cycle(s) of deposition.

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River sand is preferred as a source of sand because of the following factors:

- Cities tend to be located near rivers so transport costs are low, the energy in a river grinds rocks into gravels and sands,
- Eliminating the costly step of mining, grinding, and sorting of rocks
- The material produced by rivers tends to consist of resilient minerals of angular shape that are preferred for construction.
- Also, offer the advantages of being naturally sorted by grain-size, easily accessible, and able to be transported inexpensively using barges. Despite plentiful supplies of desert sand (Aeolian) which produce materials unsuitable for making concrete.

A meandering stream has a single channel that wind snakelike through its valley. As water flows around these curves, the outer edge of water is moving faster than the inner edge. This creates an erosionsurface on the outer edge (a cut bank) and a depositional surface on the inner edge (a point bar). Where the bends of two meanders meet, they bypass the curve of river, creating an oxbow lake which may then be in-filled with over wash sediment.

Meanders change position by eroding sideways and slightly downstream. The sideways movement occurs because the maximum velocity of the stream shifts toward the outside of the bend, causing erosion of the outer bank. At the same time the reduced current at the inside of the meander results in the deposition of coarse sediment, especially sand. Thus by eroding its outer bank and depositing material along its inner bank, a stream moves sideways without changing its channel size. Due to the slope of the channel, erosion is more effective on the downstream side of a meander.

The specific gravity of an aggregate is considered as the measure of strength or quality of the material. Specific gravity is defined as the ratio of weight of a given volume of aggregate to the weight of equal volume of water. Aggregates having low specific gravity are generally weaker than those with aggregates having high specific gravity. This property helps in a general identification of aggregates. The specific gravity of (sand) is considered to be around 2.65 to 2.67.Sand particles composed of quartz have a specific gravity between 2.65 to 2.67. While inorganic clays generally range from 2.70 to 2.80. Soils with large amounts of organic matter or porous particles have specific gravity below 2.60 (Some range as low as 2.00).

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Sources of sand

Sand is world's second most consumed natural resource after water. Rapid urbanization and global population growth have created unbound demand for this limited natural resource. With urbanization as key driving factor, construction industry has expanded considerably over the last few decades leading to overuse of river sand for construction purposes. This increasing discrepancy between the need for aggregates in the society and scarcity of natural sand due to exhaustion of resources and environmental considerations, has urged concrete manufacturers to look for a suitable and sustainable alternative fine aggregate. The economical and ecological alternative is manufactured sand.

Natural Sources

Natural sand is produced by natural forces, such as river sand and sea sand. Generally, sand found at foot of mountains is more weathered, containing more mud, organic impurities and light substances. Sea sand often contains shells and other impurities, and its components such as the chlorine, sulfate and magnesium salts may cause corrosion of steel bars. All the components will affect the performance of concrete. Sources of sand can be river bed material, de-siltation pits in reservoirs/dams, agricultural land etc. these can be broadly classifies as:

Following are the natural types of the sand:

- **Pit Sand**

This sand is found as deposits in soil and it is obtained by forming pits into soils. It is excavated from a depth of about 1 m to 2 m from ground level. The pit sand consists of sharp angular grains which are free from salts and it proves to be excellent material for mortar or concrete work. For making mortar, the clean pit sand free from organic matter and clay should only be used.

- **River Sand**

This sand is obtained from banks or beds of rivers. The river sand consists of fine rounded grains probably due to mutual attrition under the action of water current. The colour of river sand is almost white. As river sand is usually available in clean condition, it is widely used for all purposes.

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- **Sea Sand**

This sand is obtained from sea shores. The sea sand, like river sand, consists of fine rounded grains. The colour of sea sand is light brown. The sea sand contains salts. These salts attract moisture from the atmosphere. Such absorption causes dampness, efflorescence and disintegration of work. The sea sand also retards the setting action of cement. Due to all such reasons, it is the general rule to avoid the use of sea sand for engineering purposes except for filling of basement, etc. It can however be used as a local material after being thoroughly washed to remove the salt.

Manufactured Sand

Manufactured sand (M-Sand) is artificial sand produced from crushing hard stones into small sand sized angular shaped particles (rock particles with a particle size of less than 4.75 mm and is made by artificial crushing and sieving after soil removal treatment), washed and finely graded to be used as construction aggregate. It is a superior alternative to River Sand for construction purpose. The main technical indicators of artificial sand are particle gradation, fineness modulus, stone powder content, void ratio, apparent density, bulk density, methylene blue value (MB), crushing value index, mica content, light-matter content, etc.

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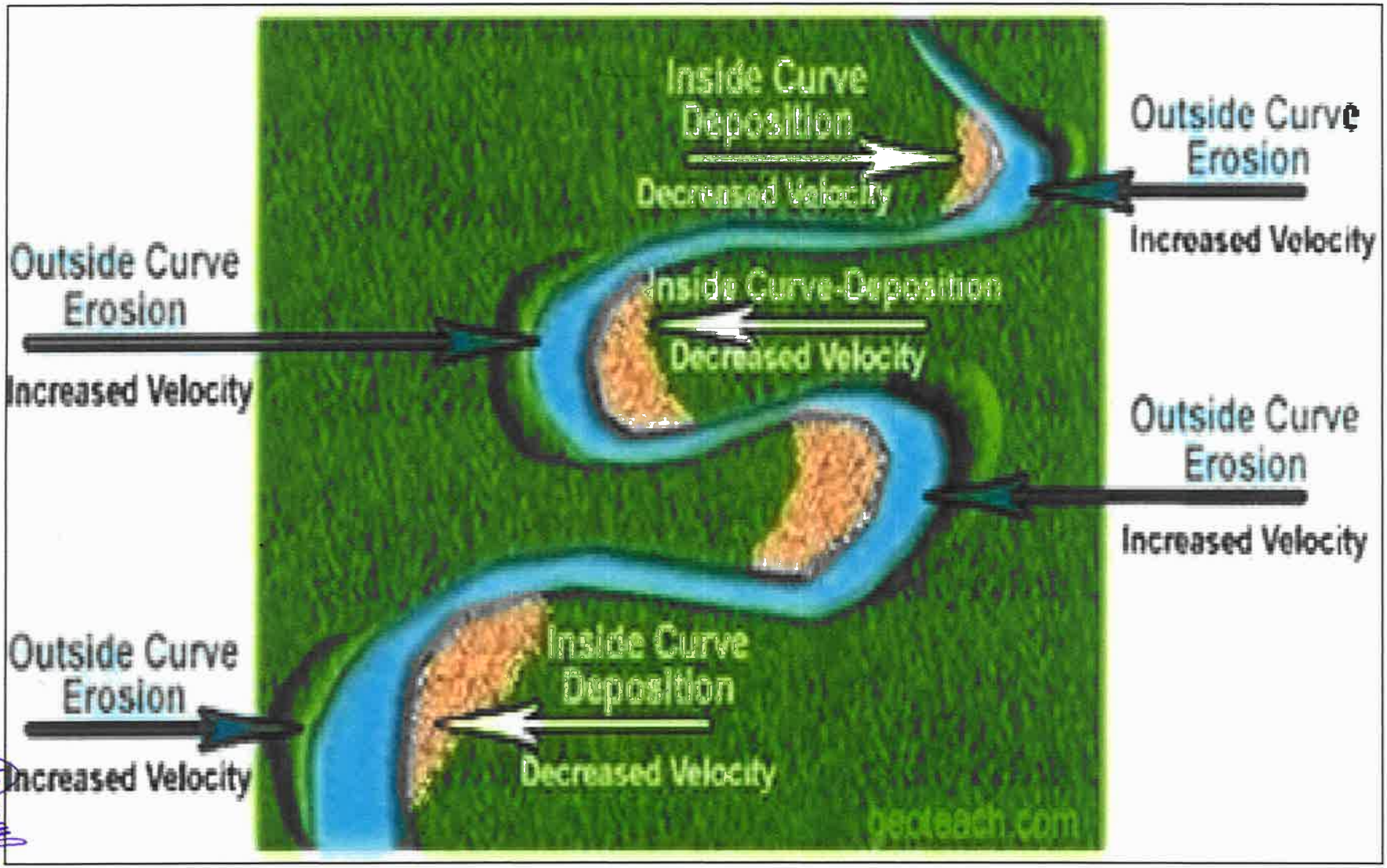

Figure 3 Conducive Areas for sand deposition

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Sand Mining

Sand Mining is an activity referring to the process of the removal of sand from rivers, streams and lakes.

- Sand is mined from beaches and dredged from river beds.
- There are no official figures for the amount of sand mined illegally, but in 2015-16, there were over 19,000 cases of illegal mining of minor minerals, which include sand, in the country.
- To stop illegal mining, the Ministry of Environment, Forest and Climate Change (MoEF) issued Enforcement and Monitoring Guidelines for Sand mining.
- These guidelines focus on the effective monitoring of the sand mining.

Following considerations shall be kept in mind for sand mining:

- Parts of the river reach that experience deposition or aggradations shall be identified. The Leaseholder/ Environmental Clearance holder may be allowed to extract the sand and gravel deposit in these locations to manage aggradations problem.
- Sand and gravel may be extracted across the entire active channel during the dry season.
- Abandoned stream channels on the terrace and inactive floodplains are to be preferred rather than active channels and their deltas and flood plains. The stream should not be diverted to form the inactive channel.
- Layers of sand which could be removed from the river bed shall depend on the width of the river and replenishment rate of the river.
- Sand shall not be allowed to be extracted where erosion may occur, such as at the concave bank.
- Segments of the braided river system should be used preferably falling within the lateral migration area of the river regime that enhances the feasibility of sediment replenishment.
- Sand and gravel shall not be extracted up to a distance of 1 kilometre (1 km) from major bridges and highways on both sides, or five times (5x) of the span (x) of a bridge/public civil structure (including water intake points) on up-stream side and ten times (10x) the span of such bridge on down-stream side, subjected to a

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minimum of 250 meters on the upstream side and 500 meters on the downstream side.

- Sand and gravel could be extracted from the downstream of the sand bar at river bends. Retaining the upstream one to two-thirds of the bar and riparian vegetation is accepted as a method to promote channel stability.
- The flood discharge capacity of the river could be maintained in areas where there is a significant flood hazard to existing structures or infrastructure. Sand and gravel mining may be allowed to maintain the natural flow capacity based on surveyed cross-section history. Alternatively, off-channel or floodplain extraction is recommended to allow rivers to replenish the quantity taken out during mining.
- The Piedmont Zone (Bhabhar area) particularly in the Himalayan foothills, where riverbed material is mined, and this sandy-gravelly track constitute excellent conduits and hold the greater potential for groundwater recharge. Mining in such areas should be preferred in locations selected away from the channel bank stretches.
- Mining depth should be restricted to 3 meters and distance from the bank should be ¼thor river width and should not be less than 7.5 meters.
- Demarcation of mining area with pillars and geo-referencing should be done prior to the start of mining.
- A buffer distance/un-mined block of 50 meters after every block of 1000 meters over which mining is undertaken or at such distance as may be the directed/prescribed by the regulatory authority shall be maintained.
- River bed sand mining shall be restricted within the central 3/4th width of the river/rivulet or 7.5 meters (inward) from river banks but up to 10% of the width of the river, as the case may be and decided by regulatory authority while granting environmental clearance in consultation with irrigation department. Regulating authority while regulating the zone of river bed mining shall ensure that the objective to minimize the effects of riverbank erosion and consequential channel migration are achieved to the extent possible. In general, the area for removal of minerals shall not exceed 60% of the mine lease area, and any deviation or relaxation in this regard shall be adequately supported by the scientific report.

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- The mining from the area outside river bed shall be permitted subject to the condition that a safety margin of two meters (1 m) shall be maintained above the groundwater table while undertaking mining and no mining operation shall be permissible below this level unless specific permission is obtained from the Competent Authority. Further, the mining should not exceed nine-meter (3 m) at any point in time.
- The permanent boundary pillars need to be erected after identification of an area of aggradations and deposition outside the bank of the river at a safe location for future surveying. The distance between boundary pillars on each side of the bank shall not be more than 100 meter.

6.2 Sand Replenishment Plan and Projections

Sand Replenishment Assessment

The process of sand replenishment is highly dependent upon the rainfall received in the catchment areas of rivers and their tributaries and velocity of river. It is a dynamic process. Thus it is difficult to predict, what quantity of sand may be reclaimed/ replenished by river. Because, in case of less rain, less water in the river, there may be less erosion and transportation may also be minimal and as a result deposition too will be less. Replenishment of sand depends upon topography , rainfall, slope, velocity of water and the source rock of the area , sand deposits of district not good in quality due to source rock of area . it is a mixture of sand particles and clay material. It is seen the quantity which extracted from river bed during pre monsoon similarly may deposited after post monsoon period

In order to establish a safe extraction limit, such that the extracted sand gets replenished annually, a replenishment study is to be carried out. For this purpose, the river bed RL at selected points in the dry portion of riverbed will be measured during pre-monsoon period and again during post- monsoon period in order to assess the annual quantum of sand deposition. If it is observed that, there is an average increase in riverbed RL, it shows that it is due to deposition of sand during the monsoon flow of the river and by multiplying it with the area of lease one can measure the quantity of sand replenished every year. Table shows expected sand replenishment in future year

Sand quarrying from the river bed will have both positive and negative impacts.

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NEGATIVE IMPACTS

It includes destruction of natural river course, sand erosion, bank erosion, bank cutting and widening and deepening of river bed, change in hydrological status and recharging conditions and destruction to closely linked flora, fauna and aquatic life.

POSITIVE IMPACTS

Employment and socio-economic status of the habitats living besides the river depends on sand mining industries. Construction of concrete infrastructure, roads and some other related activities depends on the river bed sand. Continuous accumulation of sand ultimately leads tothe reduction in water carrying capacity of the river leading excessive flood in the river. Sustainable extraction of sand from river will lead to overcoming the problem.

Initially replenishment study requires four surveys. The first survey needs to be carried out in the month of April for recording the level of mining lease before the monsoon. The second survey is at the time of closing of mines for monsoon season. This survey will provide the quantity of the material excavated before the offset of monsoon. The third survey needs to be carried out after the monsoon to know the quantum of material deposited/replenished in the mining lease. The fourth survey at the end of March to know the quantity of material excavated during the financial year. For the subsequent years, there will be a requirement of only three surveys. The results of year-wise surveys help the state government to establish the replenishment rate of the river. Based on the replenishment rate future auction may be planned.The replenishment period may vary on nature of the channel and season of deposition arising due to variation in the flow. Such period and season may vary on the geographical and precipitation characteristic of the region and requires to be defined by the local agencies preferable with the help of the Central Water Commission and Indian Meteorological Department. The excavation will, therefore, be limited to estimated replenishment estimated with consideration of other regulatory provisions.

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Need for Sand Replenishment Study and factors to be considered

Environmental status of the mined out area may be affected badly if proper care is not taken to ensure sustainable extraction of sand from river bed. Proper study of the following factors must be taken into consideration to reveal the actual potential of sand deposition in river course after completion of periodical excavation annually. The main factors to be considered for the study of the replenishment potential of particular river course are:

Formation of sand comprises of the following:

- Catchment area and geographical strata
- Erosion, weathering and transportation of load
- Climatic conditions, precipitation
- Geomorphology, physiographic manmade structures and activity details

Deposition/sedimentation of material or sediment yield depends upon several factors like:

- Catchment area
- Span of river/ flood plain
- Travelling distance of suspended particles
- Slope/gradient/ depth of water channel;/meandering of river
- Geology traversed
- Climatic conditions
- Tributaries/ confluence
- Type/ stage of river and flow velocity
- Flow during lean period

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Table 5 Sand Mining Area based on Post Monsoon and Pre-Monsoon Map

Sr. No.	Name of Mines	Total Area in Square Meter	Average Depthin meters	Sand Mines Quantity in Cubic meters (Pre Monsoon)	Sand Mines Quantity in Cubic meters (Post Monsoon)	Estimated Production
1.	Datyakhedi	23,500	0.11	2,000	2,500	2,500
2.	Dhaturia	37,500	0.16	3,000	6,000	6,000
3.	Diwankhedi	36,400	0.1	2,500	3,000	3,000
4.	Ghatakhedi	84,800	0.19	16,000	16,000	16,000
5.	Dodri	49,000	0.1	4,500	4,900	4,900
6.	Kheda Narela	87,000	0.1	8,000	8,700	8,700
7.	Kheda Narela (1)	46,000	0.1	4,500	4,600	4,600
8.	Lalakhedi	30,000	0.1	2,500	3,000	3,000
9.	Mangwaliya	53,800	0.1	4,500	5,380	5,380
10.	Pithapura	47,700	0.1	4,500	4,770	4,770
11.	Vinayga Agar	33,500	0.1	2,500	3,350	3,350

NOTE :- The replenishment of mineral sand depends upon the slope of the rivers located in the district and on the basis of friction and erosion of the rocks found in the district. Therefore on the basis of rocks found in the district very little amount of sand is expected to form and replenishment in rivers.

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Table 6 Drainage system with description of main rivers

S. No.	Name of the River	Area drained (Sq. Km)	% Area drained in the District
1	Chhoti Kali sindh River	561 sq. km	19.07%
2	Kali sindh River	431 sq. km	14.65%
3	Kanthal	502 sq. km	17.06%
4	Aav	350 sq. km	11.90%
5	Lakhundr	1021 sq. km	37.70%

Table 7 Details of the Concession area in the District

Name of River or Stream recommended the for mineral concession	Portion of the River or Stream Recommended for Mineral Concession	Length of area recommended for mineral concession (in meters)	Average width of area recommended for mineral concession (in meters)	Average depth of area recommended for mineral concession (in meters)	volume recommended for mineral concession (in Cubic Meter)	volume recommendedfor mineral concession (in M.T.)	Mineable mineral potential (in MT (60 % of total mineral potential)
Kanthal	Datyakhedi	480	49	0.11	2,500	3500	2100
Kanthal	Dhaturia	962	39	0.16	6,000	8400	5040
Kanthal	Diwankhedi	880	35	0.1	3,000	4200	2520
Kalisindh	Ghatakhedi	766	110	0.19	16,000	22400	13440
Chhoti Kalisindh	Dodri	620	79	0.1	4,900	6860	4116

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Chhoti Kalisindh	Kheda Narela	2740	32	0.1	8,700	12180	7308
Chhoti Kalisindh	Kheda Narela (1)	523	88	0.1	4,600	6440	3864
Local Nala	Lalakhedi	720	42	0.1	3,000	4200	2520
Aav river	Mangwaliya	2242	24	0.1	5,380	7532	4519.2
Kanthal	Pithapura	808	59	0.1	4,770	6678	4006.8
Aav river	Vinayga Agar	1240	27	0.1	3,350	4690	2814
					62,200	**87080**	**52248**

Table 8 Mineral Potential

Name of Mines	Boulder (Cu.M.)	Bajari (Cu.M.)	Sand (Cu.M.)	Total Mineable Mineral Potential (Cu.M.)
Datyakhedi	-	-	2,500	2,500
Dhaturia	-	-	6,000	6,000
Diwankhedi	-	-	3,000	3,000
Ghatakhedi	-	-	16,000	16,000
Dodri	-	-	4,900	4,900
Kheda Narela	-	-	8,700	8,700
Kheda Narela (1)	-	-	4,600	4,600
Lalakhedi	-	-	3,000	3,000

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Mangwaliya	-	-	5,380	5,380
Pithapura	-	-	4,770	4,770
Vinayga Agar	-	-	3,350	3,350
			62,200	**62,200**

Table 9 Details of Annual Deposition

Name of River or Stream	Portion of the River or Stream Recommended for Mineral Concession	Annual Deposition of sand in cubic meter
Kanthal	Datyakhedi	2,500
Kanthal	Dhaturia	6,000
Kanthal	Diwankhedi	3,000
Kalisindh	Ghatakhedi	16,000
Chhoti Kalisindh	Dodri	4,900
Chhoti Kalisindh	Kheda Narela	8,700
Chhoti Kalisindh	Kheda Narela (1)	4,600
Local Nala	Lalakhedi	3,000
Aav river	Mangwaliya	5,380
Kanthal	Pithapura	4,770
Aav river	Vinayga Agar	3,350
		62,200

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Table 10 Salient Features of Important Rivers and Streams

S. No.	Name of the River or Stream	Total Length in the District (in km)	Place of Origin	Altitude at origin	Portion of the River or Stream Recommended for Mineral Concession	Length of area recommended for mineral concession (in meters)	Average width of area recommended for mineral concession (in meters)	Average depth of area recommended for mineral concession (in meters)	volume recommended for mineral concession (in Cubic Meter)	volume recommended for mineral concession (in M.T.)	Mineable mineral potential (in MT (60 % of total mineral potential)	Total Production in last Three Year		
												2018-19	2019-20	2020-21
1	Kanthal	25 Km	Susner	414	Datyakhedi	480	49	0.11	2,500	3500	2100	2013.19	2616.06	411.98
2	Kanthal	25 Km	Susner	414	Dhaturia	962	39	0.16	6,000	8400	5040	-	-	-
3	Kanthal	25 Km	Susner	414	Diwankhedi	880	35	0.1	3,000	4200	2520	-	-	-
4	Kalisindh	70 km	Dewas	540	Ghatakhedi	766	110	0.19	16,000	22400	13440	2574.63	4559.54	1053.12
5	Chhoti Kalisindh	22 Km	Ujjain	518	Dodri	620	79	0.1	4,900	6860	4116	-	-	-
6	Chhoti Kalisindh	22 Km	Ujjain	518	Kheda Narela 1	2740	32	0.1	8,700	12180	7308	777.44	-	-
7	Chhoti Kalisindh	22 Km	Ujjain	518	Kheda Narela 2	523	88	0.1	4,600	6440	3864	-	-	-
8	Local Nala	-	Susner	415	Lalakhedi	720	42	0.1	3,000	4200	2520	-	-	-
9	Aav river	40 Km	Agar	492	Mangwaliya	2242	24	0.1	5,380	7532	4519.2	729.5	-	-
10	Kanthal	25 Km	Susner	414	Pithapura	808	59	0.1	4,770	6678	4006.8	-	-	-
11	Aav river	40 Km	Agar	492	Vinayga Agar	1240	27	0.1	3,350	4690	2814	-	-	-
									62,200	**87080**	**52248**	**6094.76**	**7175.6**	**1465.1**

नोट:- ग्राम धतुरिया, डोडरी, लालाखेडी, खेडा नरेला-2 एवं पिथापुरा स्थित रेत खदानों को घोषित किये जाने के पश्चात् निलामी में नहीं गई है । तथा दिवानखेडी, मांगवालिया, खेडा नरेला-1 एवं विनायगा आगर रेत खदान को किस्त जमा न करने के कारण निरस्त किया गया है जिससे इन खदानों में जिन वर्षों में उत्पादन नहीं हुआ उन वर्षों को निरंक दिखाया गया है

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7 General Profile of the District

1.Geographical Position	Agar Malwa District is a district of Madhya Pradesh state in central India. The city of Agar is the administrative headquarters of the district.
2. Area and Population	I. Geographical Area (Sq.Km) Total Area (Sq.Km): 2,785 Km^2 II. CENSUS 2011 (When merged with Shajapur) I.Population a. Total Population:15,12,681 b. Male Population: 7,80,520 c. Female Population: 7,32,161 II. Literate a. Total Literate: 8,94,612 b. Male: 5,43,509 c. Female: 3,51,103 III. Main Workers (Census 2011) a. Total Workers: 5,08,833 b. Male Workers: 3,63,707 c. Female Workers: 1,45,126 d. Cultivators: 2,87,924 e. Agricultural Laborers: 3,03,157 f. Other Workers: 1,17,981

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	V.Languages Spoken in the District The main language spoken in the district is Hindi, followed by Malwi.
3. Temperature	Mean- Maximum temperature: 42°C Mean- Minimum temperature: 13°C
4. Rainfall (In mm)	Annual Rainfall: About 1335 mm
5.Agriculture (including Shajapur)	a. Total Cultivable Area (Ha):455 b. Net Area Sown (Ha): 419 c. Area Sown more than once (Ha): 302
6.**Rivers, etc.**	Kalisindh, Lakhundar, Chhoti Kalisindh, Kanthal and Aav
7. Revenue Administrative Divisions	Revenue Divisions: a. Revenue Tehsils: 4 b. Revenue blocks: 4
8. Local Bodies	a. Municipalities: 4 b. Janpad Panchayats:4 c. Gram Panchayats: 227

7.1 Census Data 2011

Table 11 Census Data for year 2011 (Included with Shajapur)

Description	**2011**
Actual Population	15,12,681
Male	7,80,520
Female	7,32,161
Population Growth	17.20%
Area Sq. km.	6,195
Density/km^2	244
Proportion to population of Madhya Pradesh	2.08%
Sex Ratio (Per 1000)	938
Child Sex Ratio (0-6 Age)	920
Average Literacy	69.09
Male Literacy	81.47

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Female Literacy	55.93
Total Child Population (0-6 Age)	2,17,759
Male Population (0-6 Age)	1,13,404
Female Population (0-6 Age)	1,04,355
Laterites	8,94,612
Male Laterites	5,43,509
Female Laterites	3,51,103
Child Proportion (0-6 Age)	14.40%
Boys Proportion (0-6 Age)	14.53%
Girls Proportion (0-6 Age)	14.25%

8 Land utilization Pattern in the District: Forest, Agricultural, Mining, etc.,

Land use/land cover (LULC) changes are main issues of universal environment change. The Satellite remote sensing data with their monotonous nature have proved to be rather useful in mapping land use/land cover decorations and changes with time. Quantification of such changes is conceivable through GIS techniques even if the subsequent spatial datasets are of dissimilar scales or resolutions. Such studies have helped in considerate the dynamics of human happenings in space and time. Land use refers to man's activities.

Table 12 Land Use Pattern of the Study Area)

Sr. No.	Class	Area in Ha.	Percentage of coverage
1	Agricultural Plantation	8,707	3.21 %
2	Barren rocky	493	0.18 %
3	Agricultural Land	1,94,845	71.84 %
4	Deciduous (Dry/Moist/Thorn)	767	0.28 %
5	Agricultural Land	961	0.35 %
6	Gullied/Ravenous land	142	0.05 %
7	Industrial	2,383	0.88 %
8	Lake/Ponds	1,209	0.45 %
9	Mining / Quarry	360	0.13 %
10	Reservoir/Tank	3,598	1.33 %

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11	River	2,667	0.98 %
12	Rural	3,590	1.32 %
13	Scrub Forest	3,222	1.19 %
14	Scrub land	48,026	17.71 %
15	Tree Clad Area	2	0.00 %
16	Urban	254	0.09 %
	Total	2,71,226	100.00 %

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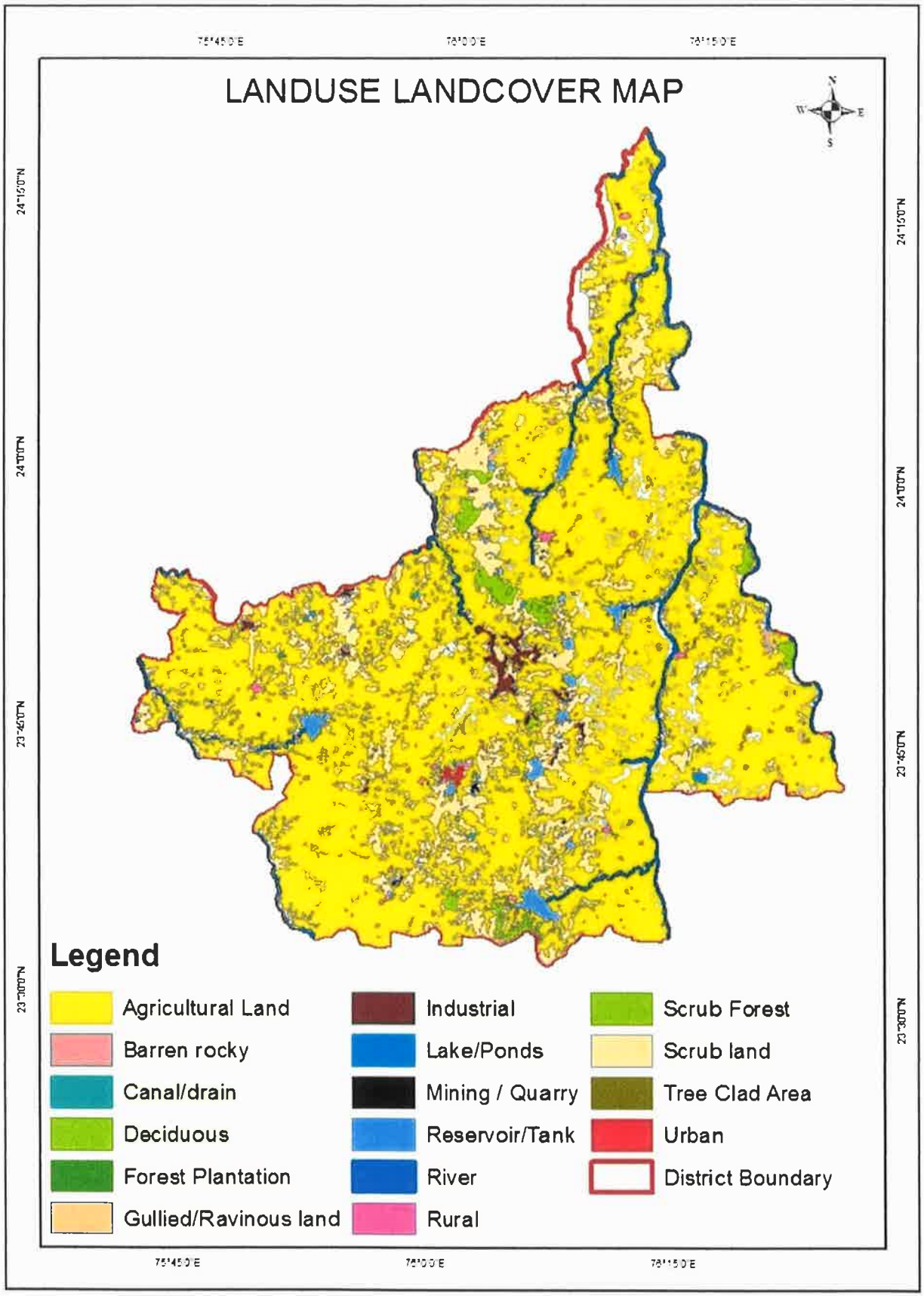

Figure 4 Land Use and Land Cover Map of the District

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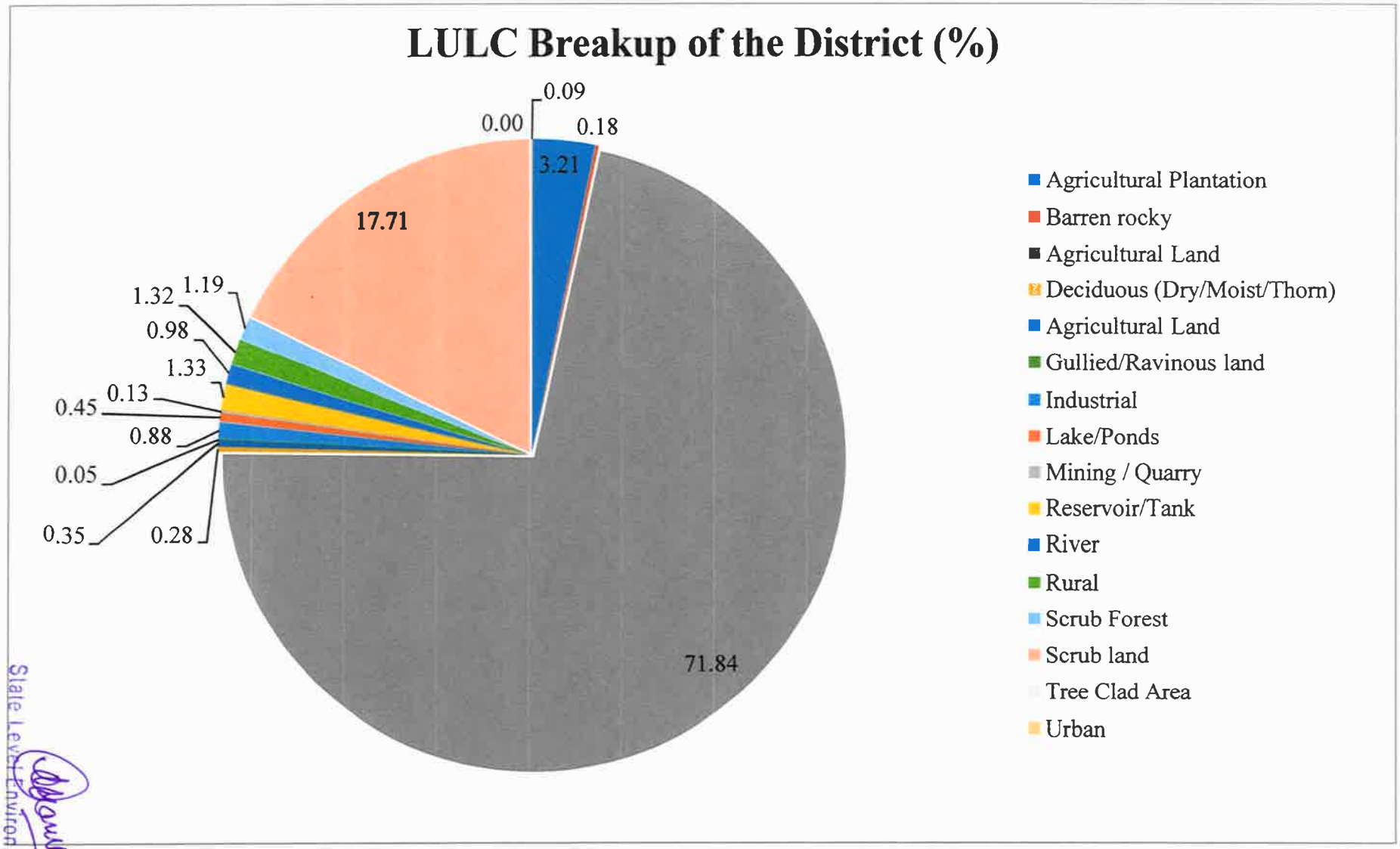

Figure 5 Land Use and Land Cover Breakup of the District

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9 Physiographic of the District

The entire district is a part of Deccan Trap of Cretaceous Eocene age. The alluvium of recent period is, however, found along the river Parbati in a narrow strip. Physio-cultural diversities in the district have led its sub division into the following sub-micro regions:-

Agar plateau

Shajapur Forested Upland

Kali Sindh Basin

Shajapur Upland

Agar plateau covers the most part of the western district. The Agar- Baroda are has slope from south to north. The area lies at 500 to 545 msl. The area has Chhoti Kalisindh River which flows in western parts of the district and further enters in Rajasthan. Central Agar Plateau and western area has Aau and Lakhundar River which slope from south to north. Kalisindh basin spreads from western and northern boundaries in western area of Malwa. Kalisindh River flows from South of North. The major part of the district is hilly and undulating and has rivers along with their tributaries.

10 Rainfall of the District and Climate Conditions

10.1 Details of Month wise Rainfall Data of Last 3 Year

Table 13 Details of Month wise Rainfall Data 2019-2021

S. No.	Name of Month	Year 2019 Month wise average Value of Rainfall (m.m.)	Year 2020 Month wise average Value of Rainfall (m.m.)	Year 2021 Month wise average Value of Rainfall (m.m.)
1.	January	00	00	00
2.	February	00	00	00
3.	March	00	00	00
4.	April	9.53	00	00
5.	May	00	00	39.66
6.	June	75.93	241.33	85.43
7.	July	292.13	184.00	401.88
8.	August	633.03	424.4	345.90

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9.	September	624.73	82.83	388.63
10.	October	52.13	2.60	72.13
11.	November	00	00	00
12.	December	00	14.33	1.75
	Total	1687.48	949.49	1335.38

10.2 Climatic Conditions

The climate of district is characterized by hot summer and general dryness except during the south west monsoon season. The year may be divided into four seasons. The cold season, December to February is followed by the hot season from March to about the middle of June. The period from the middle of June to September is the south west monsoon season. October and November form the post monsoon or transition period. January is a Coolest Month and May is the hottest month in the year. Average temperature 35°C from March to June and 12°C in December to February.

11 Geology and Mineral Wealth of the District

The generalized succession, Litho logy and stratigraphy have been presented here. The physiographic features of the district consist of Malwa plateau and show lava related geomorphology which consist of waste flatlands, low mounds and hill clusters which slope towards north. The southern portion of the district shows elevated terrain which has planar top plateaus with elevated profiles. The central portion of the district has planar geomorphology along with undulating areas. The north- western portion of the district covered laterite hills. The elevation of the district is 510 amsl which reaches the height from south portion of Kalisindh and Kanthal respectively. The development of the grounds and hills show moderately developed geomorphology. The banks of Kalisindh River have

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development of semicircular erosion faces and undulating topography.The hills are circular, arched and conical in shape. The bed of Kalisindh River is 320 amsl. Flood plains and associated deposits along with levees have width of about 20 m, developed at meanders of the river. The flowing in the North, such as Kalisingh, Kanthal, Lakhundar etc. further join the Chambal River and give rise to Ganges drainage system. The drainage pattern is dendritic and has moderate drainage density.

The Lithology of the district mainly consists of rocks formations of Cretaceous and Eocene Period. Deccan Traps and the laterite deposits overlain are from Quarternary Age. The sequential lava flows cover the major part of the district. The deccan flows in the district has been classified on the basis of intermediate flows, heterogeneity of the terrain, formations, vascularity and brittle formations. The flows are characterized by dark grey color, fine to medium grained, hard and compact and low to medium porphyritic in nature. Generally, the lower flows have hard and compact basalt, followed by vesicular/ amygdaloidal and brittle rocks towards the surface. Mineralogical composition of basalt is mainly plagioclase, pyroxene with accessory mineral like olivine, quartz and iron oxide.

At 460 amsl in the western, central and north western part of the district, laterite deposits are found. It is characterized by red, yellowish-brown and violet tones, along with vesicles. In northern part of the district, alluvial deposits are found at the banks of Kali sindh and Lakhundar River. The alluvium is characterized by yellow-gray, silt laced, sand and pebble and gravel.

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Table 14 Geological Profile of the District

	Geological Age	Stratigraphic Status	Lithology
Deccan Trap	Holocene	Alluvium	Alluvium
	Cenozoic	-	Laterite
	Cretaceous To Palaeocene	Indore Formation	6Aa type basalt Flows
		Kankariya Pirukheri Formation	4 Aa and compound Pahoehoe type basalt flows
	Cretaceous To Palaeocene	Kalisindh Formation	5 Aa type basalt flows
	Intertrapion bed		
	Cretaceous To Palaeocene	Mandleshwar formation	2Aa type basalt flows

Following Local lithological Sequence is observed in the area-

Geological Age	Litho logy
Recent- Sub recent	Red/black soil/ Laterite
Upper Cretaceous	Basalt

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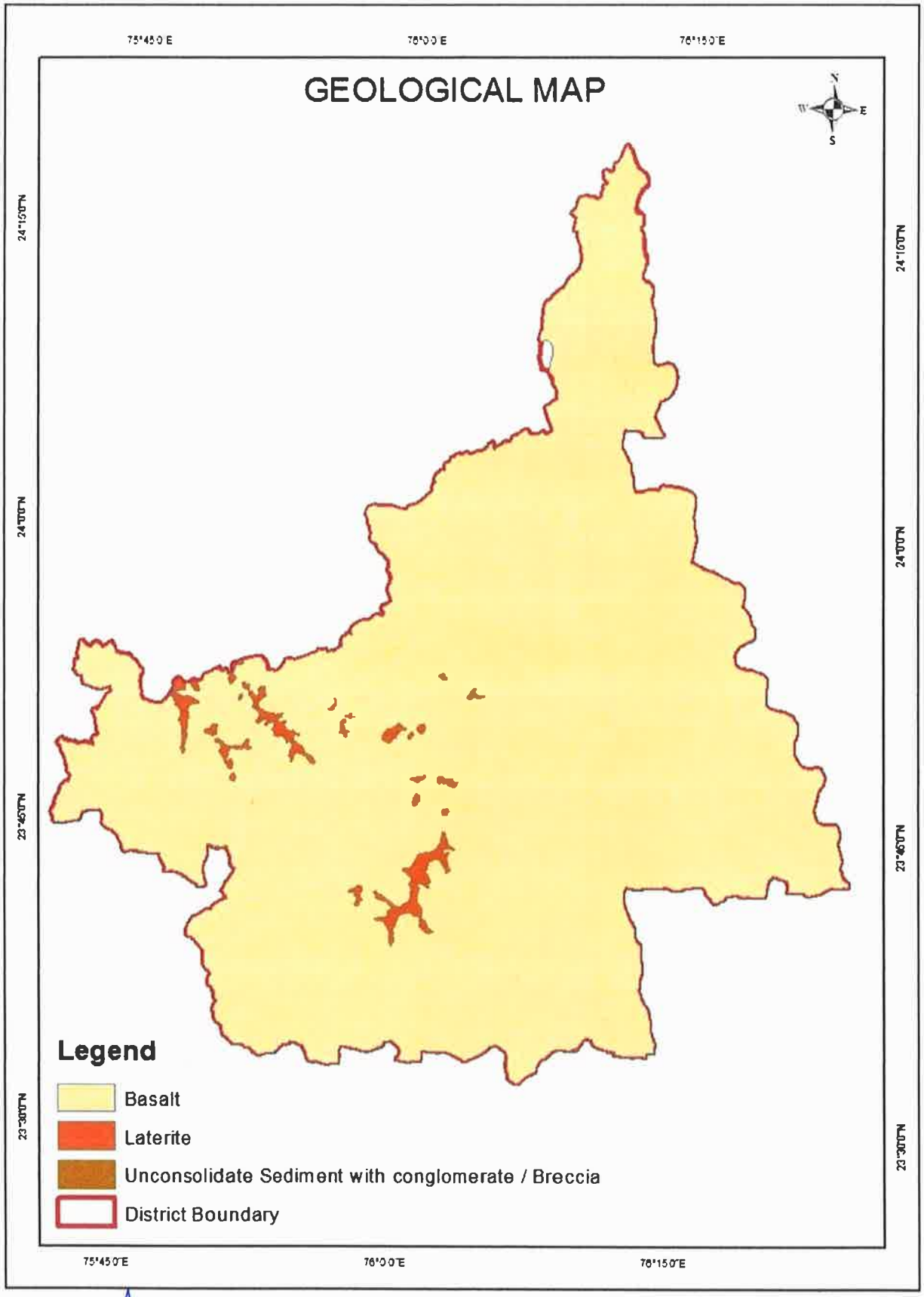

Figure 6 Geological Map of the District

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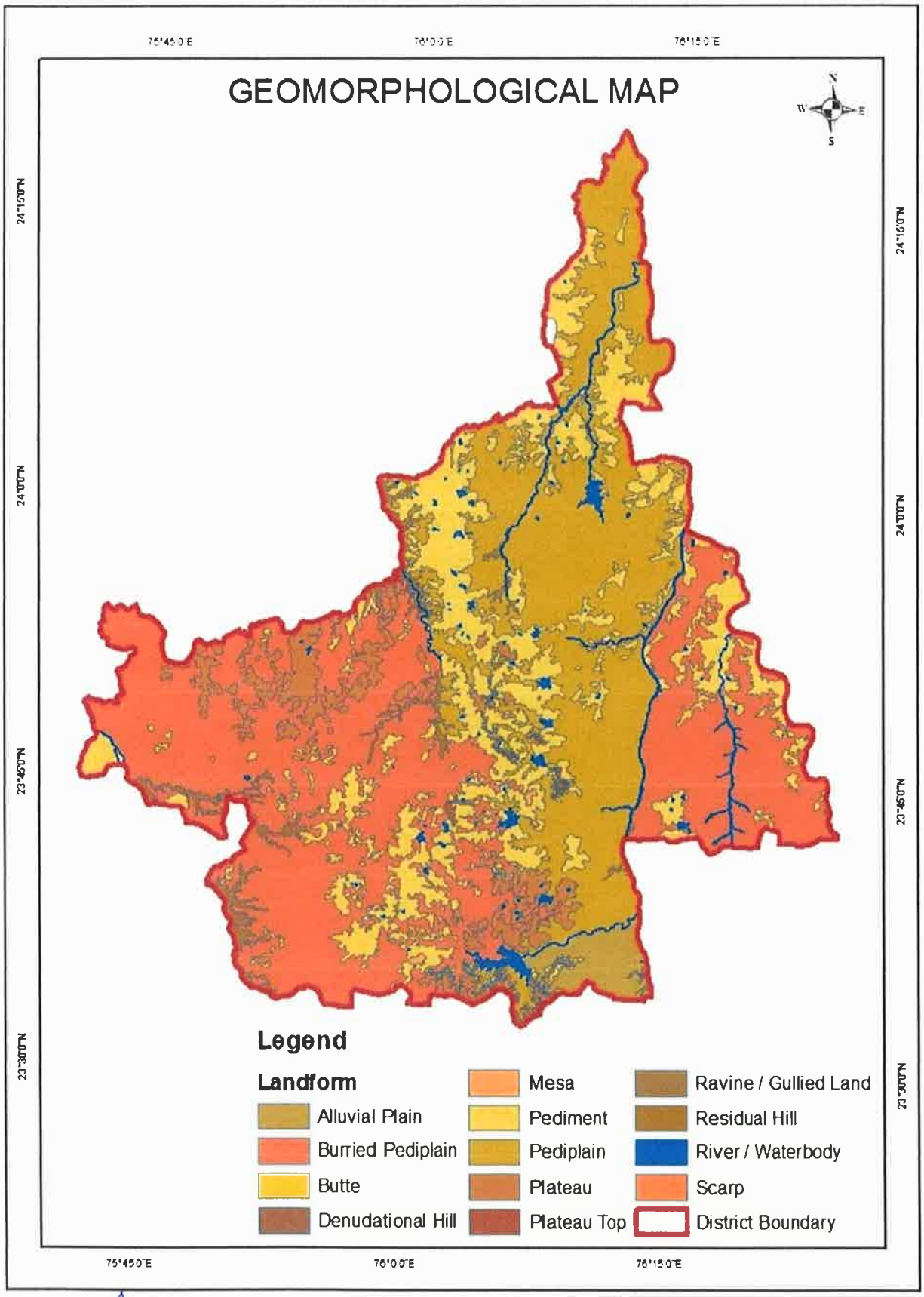

Figure 7 Geomorphologic Map of the District

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12 Drainage and Irrigation Pattern

Drainage Pattern

Kalisindh: The river originates from Dewas district reaches western part of Agar Malwa flowing through Rajgarh. Flowing along the boundary, towards north, it enters Rajasthan. It covers a stretch of about 70 km in the district.

Lakhundar: Flows from Shajapur district to southern part of Agar Malwa. It crosses Agar Nalkheda and Susner tehsils before merging into Kalisindh River. It covers a stretch of about 50 Km in the district.

Chhoti Kalisindh: The River flows in from Ujjain in western part of the district. It enters Rajasthan flowing from Agar and Barod tehsil. It covers a stretch of about 22 Km in the district.

Kanthal: The River originates from Susner tehsil of Agar Malwa and enters Rajasthan, flowing towards north. It covers a stretch of about 25 Km in the district.

Aav: the river originates from Agar tehsil of Agar Malwa district. The river crosses Agar, Barod and Susner before entering Rajasthan. It covers a stretch of about 40 Km in the district.

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 District for augmenting the water supply for agriculture. The various sources of irrigation in the district are canals, tanks, tube wells, ordinary wells, springs and channels.

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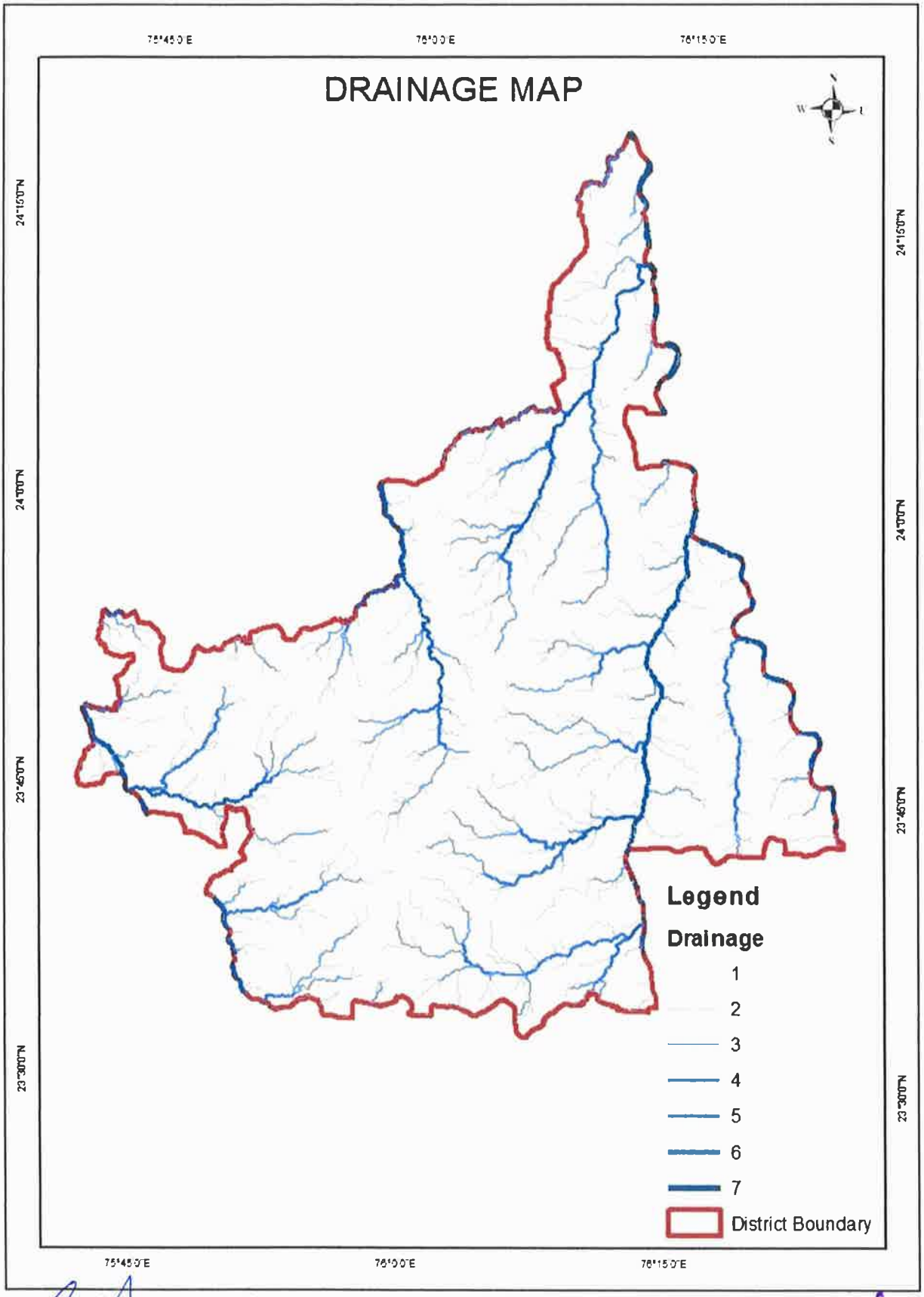

Figure 8 Drainage Map of the District

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13 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.

Ground Water occurs in different lava flows having distinctive feature like significant primary porosity in the form of vesicles lava tubes formed due to emanations of gases in weathered lava flows along with fractures, variation vesicles and its vide spatial and temporal with minerals considerable reduced by filling up with minerals like geolites, calcite, and silica to form amygdale. Alternating sequence of pervious and compact horizon functions as a multi aquifer system. Shallow ground water occurs in the weathered vesicular, jointed fractured zones of basaltic flows generally under unconfined conditions at some places under semi confined to confined condition due to the presence of thickly silty clays overlying the jointed rocks in the cases of deeper aquifer. Shallow aquifer also noticed in alluvium occurs along Lakhunda and Kalisindh river courses. Laterite development on basalt is extensive in and around Agar town where the traps have undergone maximum degree of leaching.

Surface Water

Kalisindh originates from Dewas district reaches Eastern part of Agar Malwa flowing through Rajgarh. Flowing along the boundary, towards north, it enters Rajasthan. It covers a stretch of about 70 km in the district. Lakhundar Flows from Shajapur district to southern part of Agar Malwa. It crosses Agar Nalkheda and Susner tehsils before merging into Kalisindh River. It covers a stretch of about 50 Km in the district. Chhoti Kalisindh flows from Ujjain in western part of the district. It enters Rajasthan flowing from Agar and Barod tehsil. It covers a stretch of about 22 Km in the district. Kanthal originates from Susner tehsil of Agar Malwa and enters Rajasthan, flowing towards north. It covers a stretch of about 25 Km in the district.Aav River originates from Agar tehsil of Agar Malwa district. The river crosses Agar, Barod and Susner before entering Rajasthan. It covers a stretch of about 40 Km in the district.

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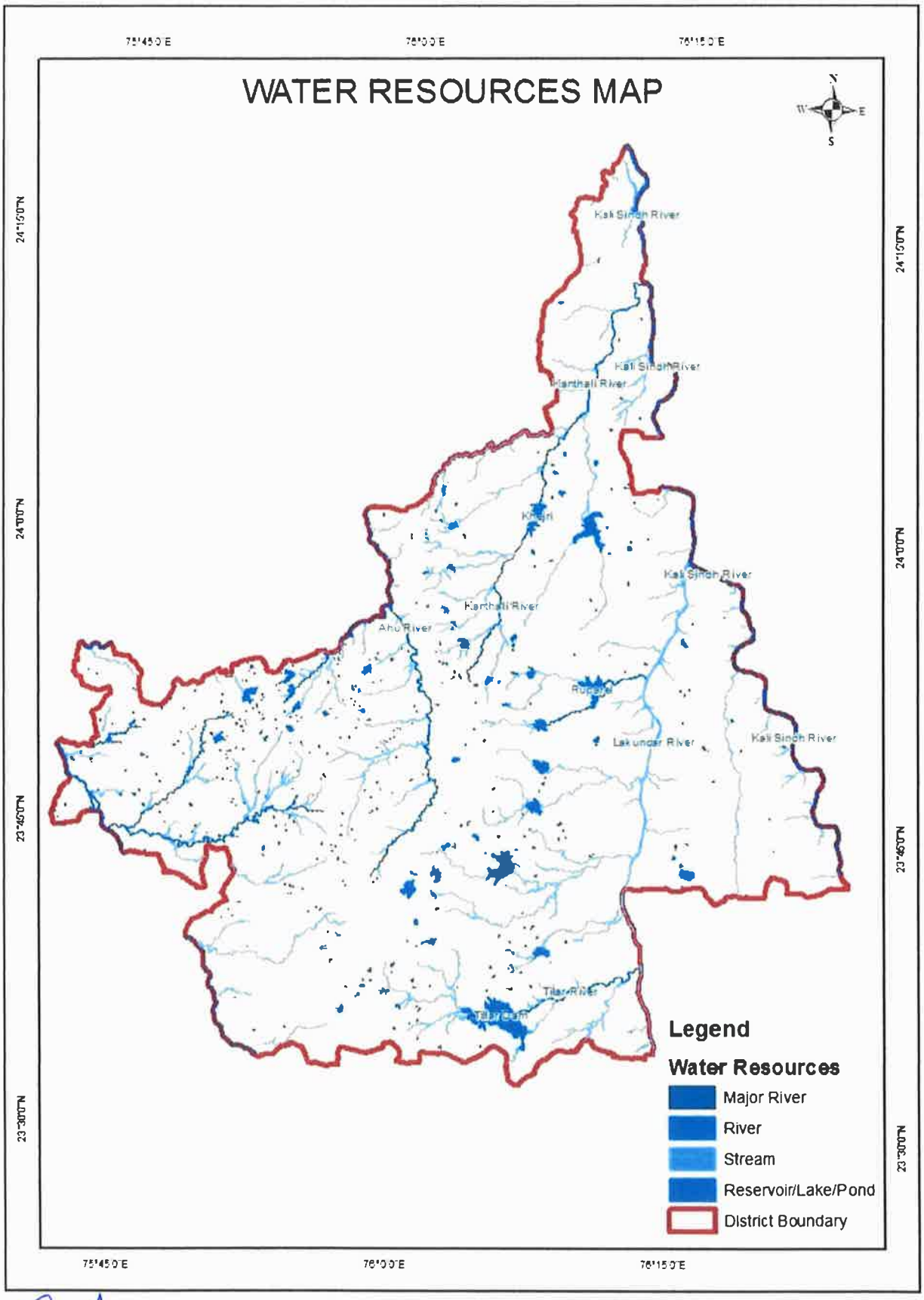

Figure 9 Water Resources Map of the District

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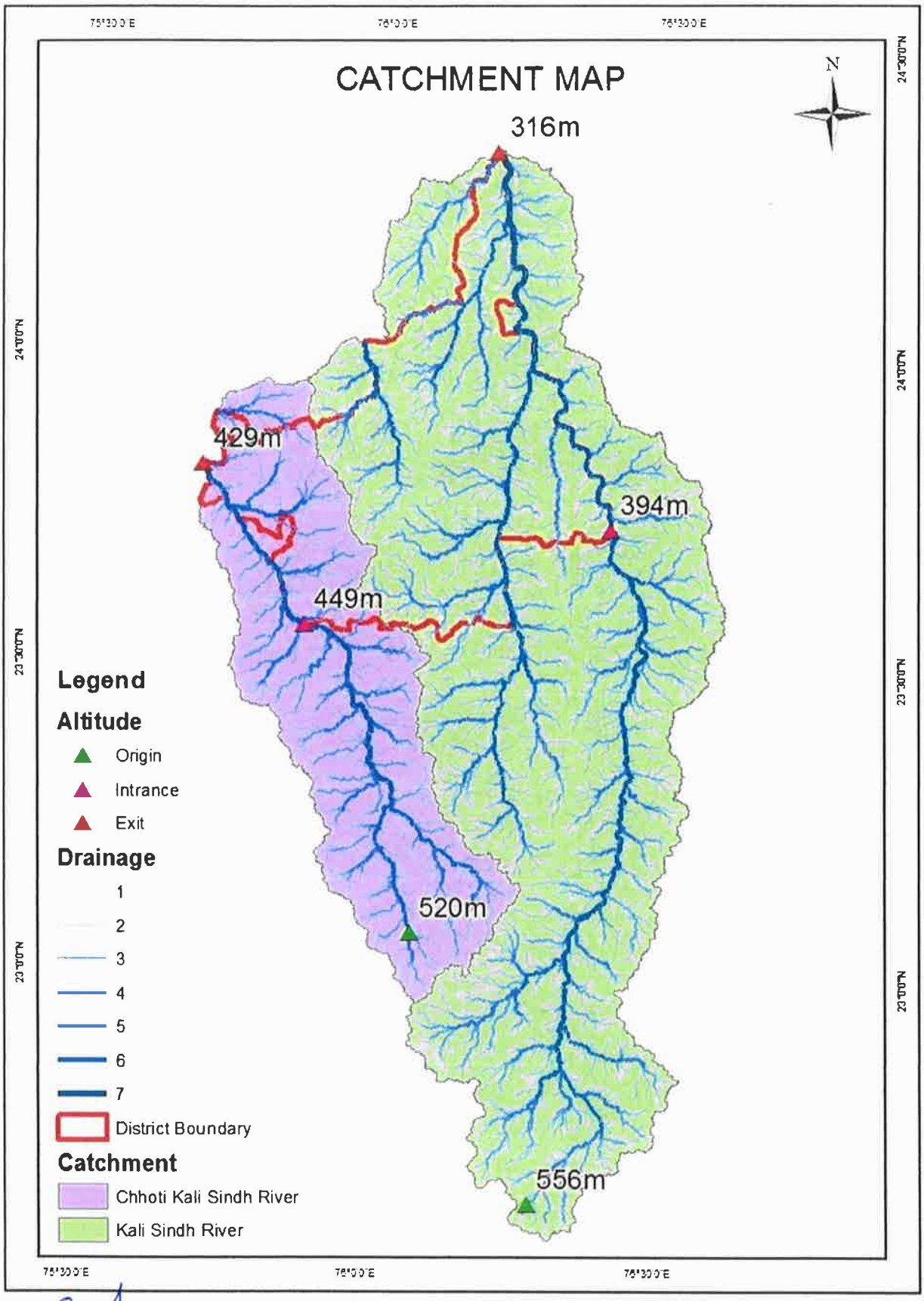

Figure 10 Catchment Map of District

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Table 15 Details of Catchment Area

Sr. No.	Properties	Chhoti Kalisindh River Basin	Kalisindh River Basin
1	Catchment Area up to Exit spot of Particular District	2,615 sq. km	7,804 sq. km
2	Catchment Area of Particular District	624 sq. km	2,130 sq. km
3	Length of the Catchment Area	102 km	190 km
4	Length of the Catchment Area of Particular District	34 km	70 km
5	Altitude at Origin of the River	520 m	556 m
6	Altitude at Entrance of the Particular District	449 m	394 m
7	Altitude at Exit of the Particular District	429 m	316 m

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14 Mineral Map of the district

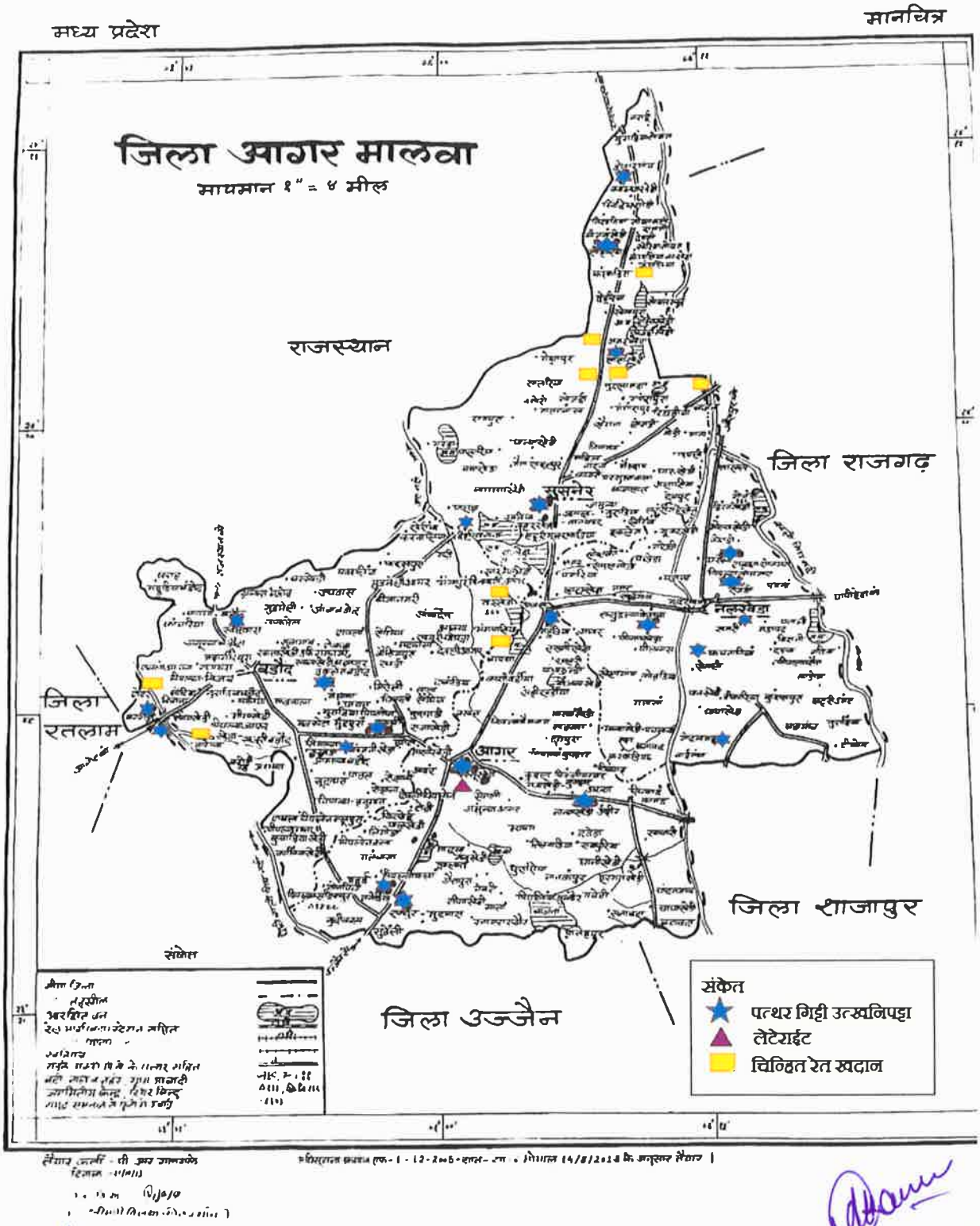

Figure 11 Mineral map of the District

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15 Total Sand Mineral Reserve available in the District

Table 16 Total Sand mineral reserve available in the district

S. no.	Mineral Name	Total Reserve Mineral
1.	Sand	62200 C.M

16 Quality/Grade of Mineral available in the District

Agar Malwa District Mainly Comprises Minor Mineral Like Sand, Stone, Gitti, Murrum and Laterite. The Quality of mineral Sand is very low grade. Most of the river sand contains muddy soil which degrade the quality of the sand. The rock basalt is using for making gitti in district. Which is suitable as road metal and building material. Grade of Mineral Laterite is suitable for cement and steel plants.

17 Use of Mineral

Minor Minerals are mainly use for construction purpose. Minor Minerals' comprise of gravel, building stones, soil, ordinary clay, ordinary sand, and murrum. Other sand used for prescribed purposes. Sand is used to give strength, bulk and other properties to construction materials like asphalt and concrete. In landscaping, it is used as a decorative material. A particular type (Silica sand) of sand is used for glass manufacturing. Likewise, it is used for metal casting as a moulding material.

Soil: Ordinary earth soil used for filling the embankment, roads, railways and building. Soil which is excavated from mine is also used for different purpose of construction.

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18 Demand and supply of the Mineral in Last three Year

Table 17 Demand and supply of the mineral in last three year

Minerals Name	Year wise Supply according to Demand			Remark
	2018-19	2019-20	2020-21	
Minor Mineral				
Sand	6094.76	7175.6	1465.1	Production of mineral sand depends upon demand

19 Mineral lease (Sand) Marked on the district Map

Tehsil Barod

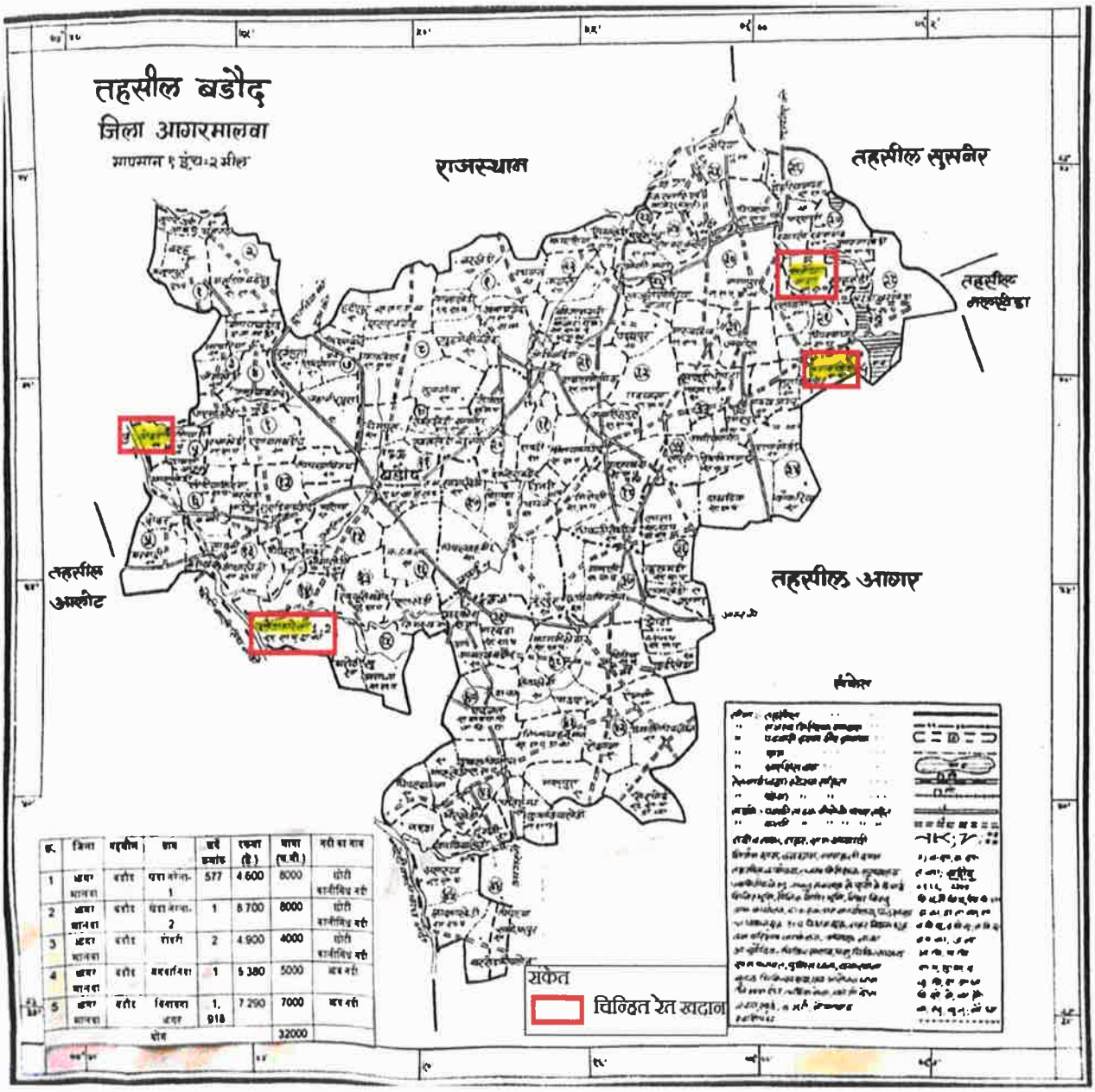

Figure 12 Sand Mine Lease Marked on the Tehsil Barod of the District

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Tehsil Susner

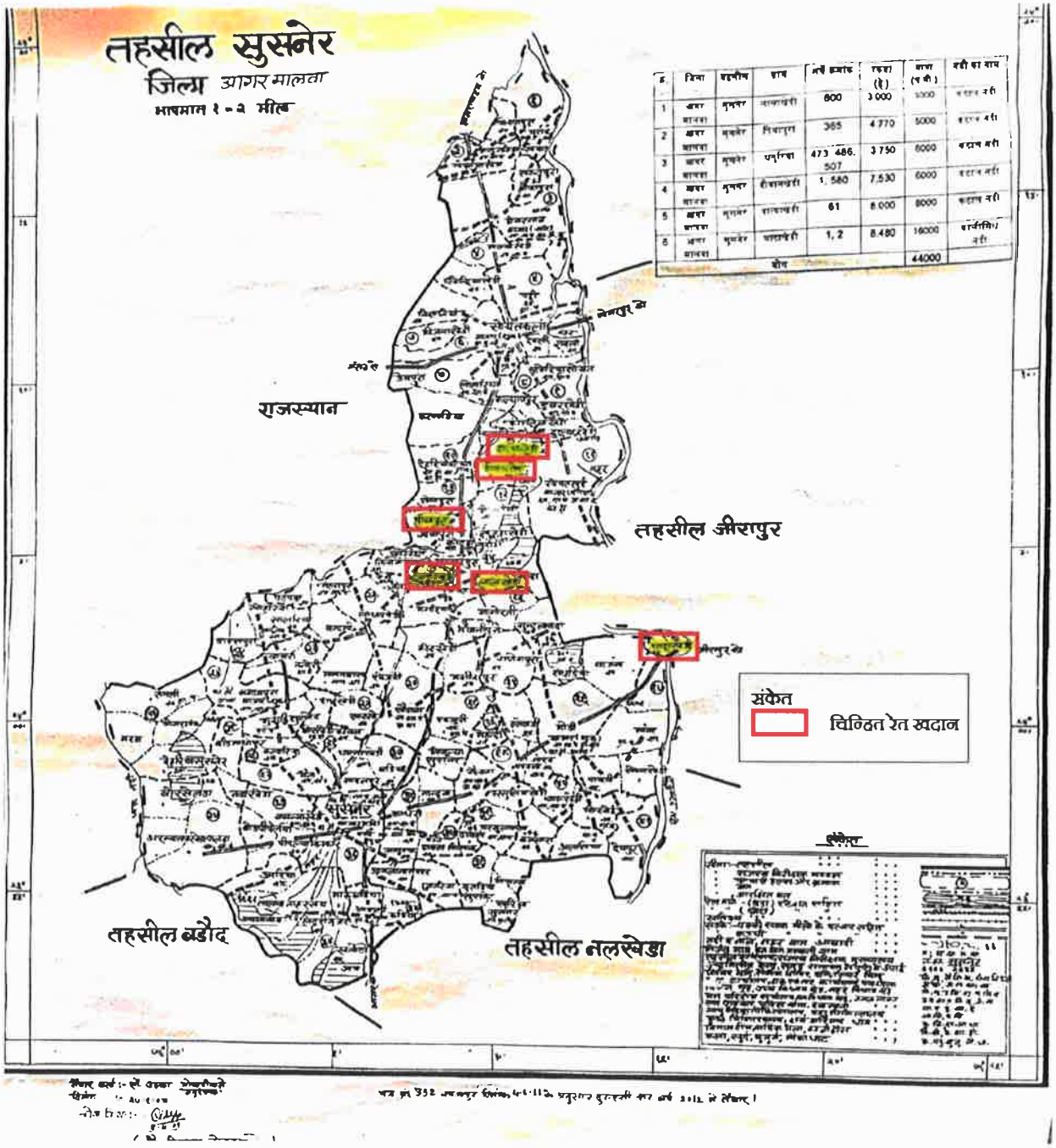

Figure 13 Sand Mine Lease Marked on the Tehsil Susner of the District

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20 Details of the area of where there is cluster of mining lease viz no. mining lease Location.

Table 18 Details of the cluster of Mining Lease

S. no.	Name of Lease	Tehsil Name	Khasra no.	Area (Ha)	Cluster and Non - Cluster
1	Lalakhedi	Susner	600	3.000	Non - Cluster
2	Pithapura	Susner	365	4.770	Non - Cluster
3	Dhaturia	Susner	473, 486, 507	3.750	Non – Cluster
4	Diwankhedi	Susner	01, 580	3.640	Non - Cluster
5	Datyakhedi	Susner	61	2.350	Non - Cluster
6	Ghatakhedi	Susner	01, 02	8.480	Cluster
7	Kheda Narela 1	Barod	577	4.600	Non - Cluster
8	Dodri	Barod	2	4.900	Non - Cluster
9	Kheda Narela (2)	Barod	1	8.700	Cluster
10	Vinayga Agar	Barod	1, 918	3.350	Non - Cluster
11	Mangwaliya	Barod	1	5.380	Non - Cluster

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21 Details of Eco – Sensitive Area, if any, in the District

There are no major Eco-sensitive zones in the district.

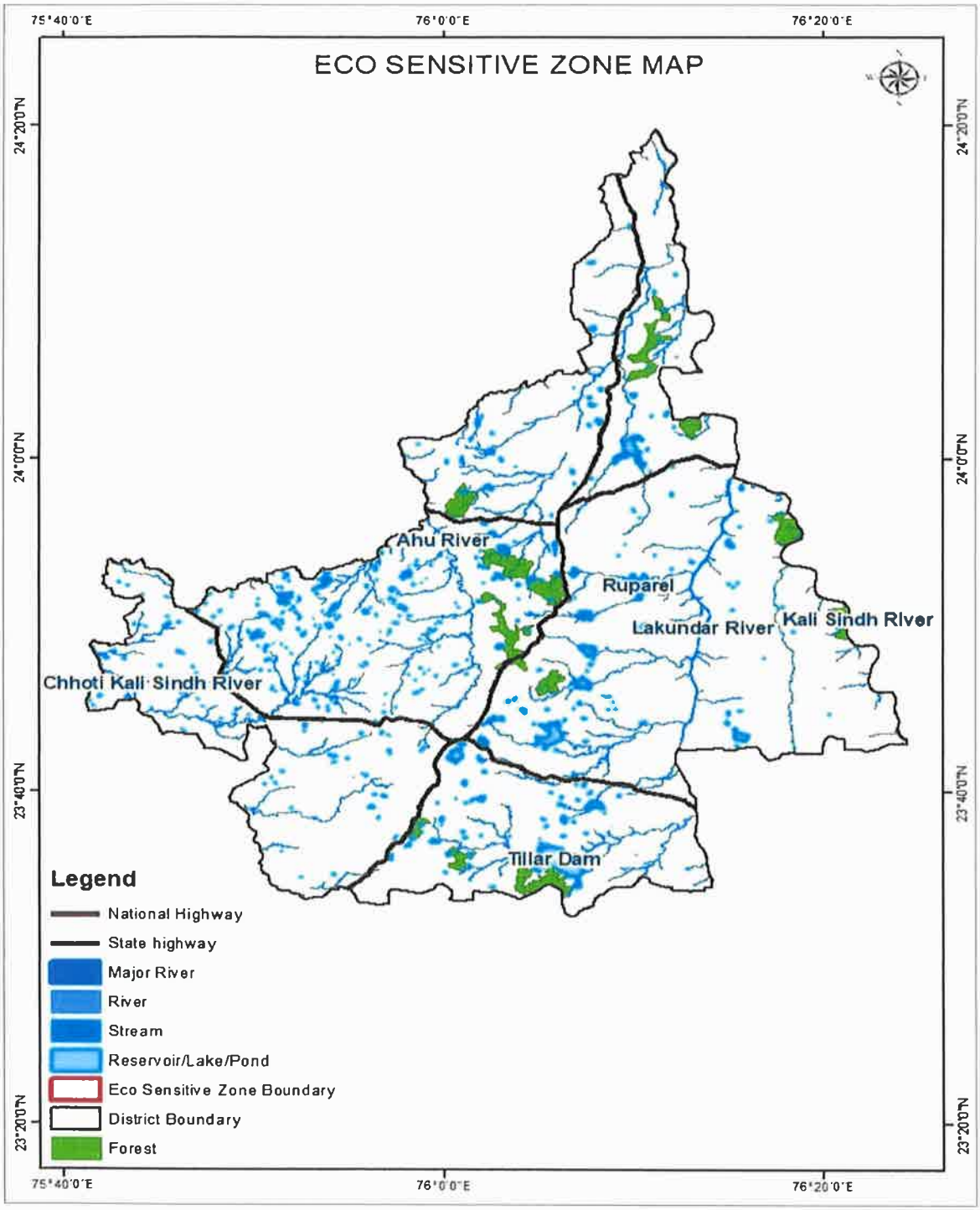

Figure 14 Eco-sensitive map of the District

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22 Impact on the Environment due to Mining Activity

Generally, the Environmental impacts can be categorized as either primary or secondary. Primary impacts are those, which are attributed directly by the project, secondary impacts are those, which are indirectly induced and typically include the associated investment and changed pattern of social and economic activities by the proposed action.

The impact has been ascertained for the project assuming that the pollution due to mining activity has been completely spelled out under the baseline environmental status for the entire ROM which is proposed to exploit from the mines.

Air

Mining Operations are carried out by opencast semi mechanized/ Mechanized method, dust particles are generated due to various activities like, Excavation, Loading, handling of mineral and transportation. The air quality in the mining area depends upon the nature and concentration of emissions and meteorological conditions.

The major air pollutants due to mining activity includes: -
Particulate Matter (Dust) of various sizes.

- Gases, such as, Sulphur Dioxide, Oxides of Nitrogen, Carbon Monoxide etc., from vehicular exhaust.
- Dust is the single Air pollutant observed in the open cast mines. Diesel operating drilling machines, small amount of blasting and movement of machinery/ vehicles produce gaseous (NO_x and SO_x) emissions, usually at low levels. Dust can be of significant nuisance surrounding land users and potential health risk in some circumstances.

Water Impact

The mining operation leads to intersection of the water table which causes ground water depletion. Due to the interruption surface water sources like River, Nallah, Odai etc., surface water system, Drainage pattern of the area is altered.

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Noise

Noise pollution is mainly due to operation of Machineries and occasional plying of machineries. These activities will create Noise pollution in the surrounding area.

Land Environment

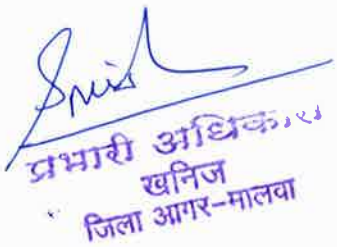
The topography of the area will change; due to the Topographical changes the entire Eco system will be altered.

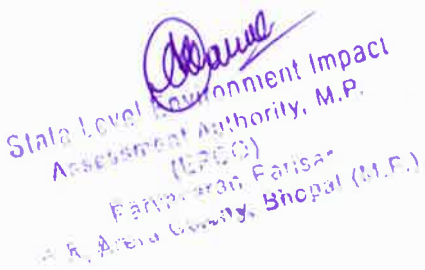
Flora and Fauna

The impact on biodiversity is difficult to quantify because of its diverse and dynamic characteristics.

Mining activities generally result in the deforestation, land degradation, water, air and noise pollution which directly or indirectly affect the faunal and floral status of the project area.

However, occurrence and magnitude of these impacts are entirely dependent upon the project location, mode of operation and technology involved.





23 Remedial Measure to mitigate the impact of Mining on the Environment:

Air

Mitigated measures suggested for air pollution controls are based on the baseline ambient air quality of the area

The following measures are proposed to be adopted in the mines such as,

- Dust generation shall be reduced by using sharp teeth of shovels.
- Wet drilling shall be carried out to contain the dust.
- Controlled blasting techniques shall be adopted.
- Water spraying on haul roads, service roads and overburden dumps will help in reducing considerable dust pollution.
- Proper and regular maintenance of mining equipment's have to be considered.
- Transport of material in trucks covered with tarpaulin.
- The mine pit water can be utilized for dust suppression in and around mine areas.
- Information on wind direction and meteorology will be considered while planning, so that pollutants, which cannot be fully suppressed by engineering technique, will be prevented from reaching the nearby agriculture area.
- Comprehensive green belt around overburden dumps has to be carried out to reduce to fugitive dust emissions in order to create clean and healthy environment.

Water

- Construction of garland drains to divert surface run-off into the mining area.
- Construction of check dams / gully plugs at strategic places to arrest silt wash off from broken up area.
- Retaining walls with weep hole will be constructed around the mine boundaries to arrest silt wash off.
- The mined out pits shall be converted into the water reservoir at the end of mine life. This will help in recharging ground water table by acting as a water harvesting structure.

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- Periodic analysis of mine pit water and ground water quality in nearby villages.
- Domestic sewage from site office & urinals/latrines provided in ML is discharged in septic tank followed by soak pits.

Noise

- Periodic maintenance of machinery, equipment shall be ensured to keep the noise generated at minimum.
- Development of thick green belt around mining area and haul roads to reduce the noise.
- Provision of earplugs to workers exposed to high noise generating activities. Workers and operators at work site will be provided with earmuffs.
- Conducting periodical medical check-up of all workers for any noise related health problems.
- Proper training to personnel to create awareness about adverse noise level effects.
- Periodic noise monitoring at suitable locations in the mining area and nearby habitations to assess efficacy of adopted control measures.
- During the blasting, optimum spacing, burden and charging of holes will be made under the supervision of competent qualified mines foreman, mate as approved by Director of Mines safety.

Land Environment

- Riparian vegetation should be developed that doesn't stress with changes over short period of time.
- Safety barrier zone should be left out in order to prevent quick sand condition or rapid erosion of river banks.
- Development of suitable greenbelt in safety and barrier zone
- Waste dumps should be stabilized taking proper measures
- Degradation of land environment should be checked by briefing the worker about routine works regarding cleanliness and proper mining measures.
- No such infrastructure or any construction should be done that might hinder the natural flow of the river.

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Biological Environment

- Development of gap filling saplings in the safety barrier left around the quarry area.
- Carrying out thick greenbelt with local flora species predominantly with long canopy leaves on the inactive mined out upper benches.
- Development of dense poly-culture plantation using local flora species in the mining area at conceptual stage.
- Adoption of suitable air pollution control measures as suggested above.
- Transport of materials in trucks covered with tarpaulin.
- Construction of garland drains and settling tank to arrest silt wash off from lease area.
- Construction of retention walls around lower boundary of mining area to arrest silt wash off and roll down boulders.
- Retaining walls with weep hole will be constructed around the mine boundaries to arrest silt wash off.

24 Reclamation of Mined out area

For River sand mining, the quarry should be demarcated using pillars and left for replenishment during monsoon season. No mining activity should be undertaken during monsoon period to avoid accidents and mishaps. Mining activity in rainy season also effected to aquatic animal so mining should be strictly restricted in river bed. For stone query there is no proposal for backfilling, reclamation and rehabilitation. The quarry pit should be fenced by barbed wire to prevent inherent entry of public and cattle. The quarried out pit will be allowed to collect rain and seepage water which act as a reservoir for storage. The Quarried pit may be used as water reservoir for both Domestic and Agriculture purpose, in case of stone mining.

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25 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. In case any 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 tocarry 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

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- Minimum the risk and impact of event/ accident
- Effective prevention of damage to property.
- 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.

26 Details of the Occupational Health issues in the District:

Open cast method involves dust generation by excavation, loading and transportation of mineral. Atsite, during excavation and loading activity, dust is main pollutant which affects the health of workerswhereas environmental and climatic conditions also generate the health problems. Addressing theoccupational health hazard means gaining an understanding of the source (its location and magnitude orconcentration), 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).

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

Physical Hazards due to Mining Operations:

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

Light: - The workers may be exposed to the risk of poor illumination or excessive brightness.That effects are eye strain, headache, eye pain and lachrymation, congestion around the cornea and eyefatigue. 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 encountered 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 likeitching and watering of eyes.

Respiratory Problems: - Large amounts of dust in air can be a health hazard, exacerbating respiratorydisorders 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.

Table 19 Number of Health Centre's in Agar Malwa District

Block wise Distribution of Hospitals				
Block	**Ayurvedic, Homeo &Yunani**	**PHC+ Allopathic**	**SHC**	**Allopathic**
Agar Malwa	-	03	22	-
Barod	-	01	17	-
Susner	-	01	21	-
Nalkheda	-	01	17	-

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Table 20 Employees informationof Health Centre's in Agar Malwa District

Medical and Health Employees (Block wise)							
Block	Medical Officer		Health Inspectors	Nurse	Compounder	Others	Total
	Allopathic	Others					
Agar Malwa	04	-	-	04	01	-	09
Barod	04	-	-	07	02	-	13
Susner	02	-	-	07	01	-	10
Nalkheda	02	-	-	05	01	-	08

Table 21 Tuberculosis Patient's list of Agar Malwa 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	1060	0	0
2	2018	1088	21	0
3	2019	1162	51	0
4	2020	781	72	0
5	2021	777	422	212

Table 22 Silicosis Patient's list of Agar Malwa District

Sr. No.	Village	No. of Patients	Name of Patients	Age	Disease	Death
1	Nil	Nil	-	-	-	-
2	Nil	Nil	-	-	-	-

Malaria control in Madhya Pradesh is complex because of vast tracts of forest with tribal settlement. Fifty four million individuals of various ethnic origins, accounting for 8% of the total population of India, contributed 30% of total malaria cases, 60% of total falciparum cases and 50% of malaria deaths in the country. Ambitious goals to control tribal malaria by launching "Enhanced Malaria Control Project" (EMCP) by the National Vector Borne Disease Control Programme (NVBDCP), with the World Bank assistance, became effective in September 1997 in eight north Indian states. Under EMCP, the programme used a broader mix of new interventions, i.e. insecticide-treated bed nets, spraying houses with effective residual insecticides, use of larvivorous fishes, rapid diagnostic tests for prompt diagnosis, treatment of the sick with effective radical treatment and increased public awareness and IEC.

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The strategic plan will serve as the guide to all the districts and the state of Madhya Pradesh to achieve the TB elimination goals. Success of this endeavour will be an important chapter in the history of control of infectious diseases.

Tuberculosis is a disease dreaded due to it's social consequences and age old myths and misconceptions regarding it's transmission and treatment. It is more often mistreated by the unqualified and untrained thus leading to patients suffering physically and monetarily. Elimination of Tuberculosis will entail mammoth efforts by each and every stakeholder involved. The launch of this document provides with the necessary roadmap and momentum, in direction of meeting the goals specified.

27 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 bioaesthetics 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 species 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.

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Table 23 Recommended Plant species for green belt development/plantation.

S.No.	Botanical Name	Family	Common Name
1.	Buchanania lanzan (spreg)	Anacardiaceae	Achar
2.	Mangifera indica (Linn)	Anacardiaceae	Aam
3.	Emblica officinalis	Euphorbiaceae	Awla
4.	Tamarindus indica (Linn)	Caesalpiniaceae	Imli
5.	Anogeissus pendula	Combrataceae	Kardhai
6.	siras Albizia lebbek	Leguminosae (Mimoseae)	Kala
7.	Azadirachta indica	Meliaceae	Neem
8.	Butea monosperma	Leguminosea (papilionaceae)	Palas
9.	Ficus infectoria	Moraceae	Pakar
10.	Stereospermum suaveolens	Bignoniaceae	Padar
11.	Salmalia malabarica, Bombaxcieba	Malvaceae	Semal
12.	Madhuca indica	Sapotaceae	Mahua
13.	Delbergia latifolia, Roxb	Leguminosae (Papilionaceae)	Shisham
14.	Lannea coromandalica	Anacardiaceae	Kankar
15.	Diospyros melanoxeon	Ebenaceae	Tendu
16.	Anogeissus latifolia	Combretaceae	Dhavda
17.	Zizyphus jujube	Rhamnaceae	Ber
18.	Cassia fistula	Leguminosae (Caesalpiniaceae)	Amaltash
19.	Syzygium cuimini	Myrataceae	Jamun
20.	Acacia karoo	Fabaceae	Keekar

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

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State Level Environment Impact Assessment Authority, M.P. (SEIAA)
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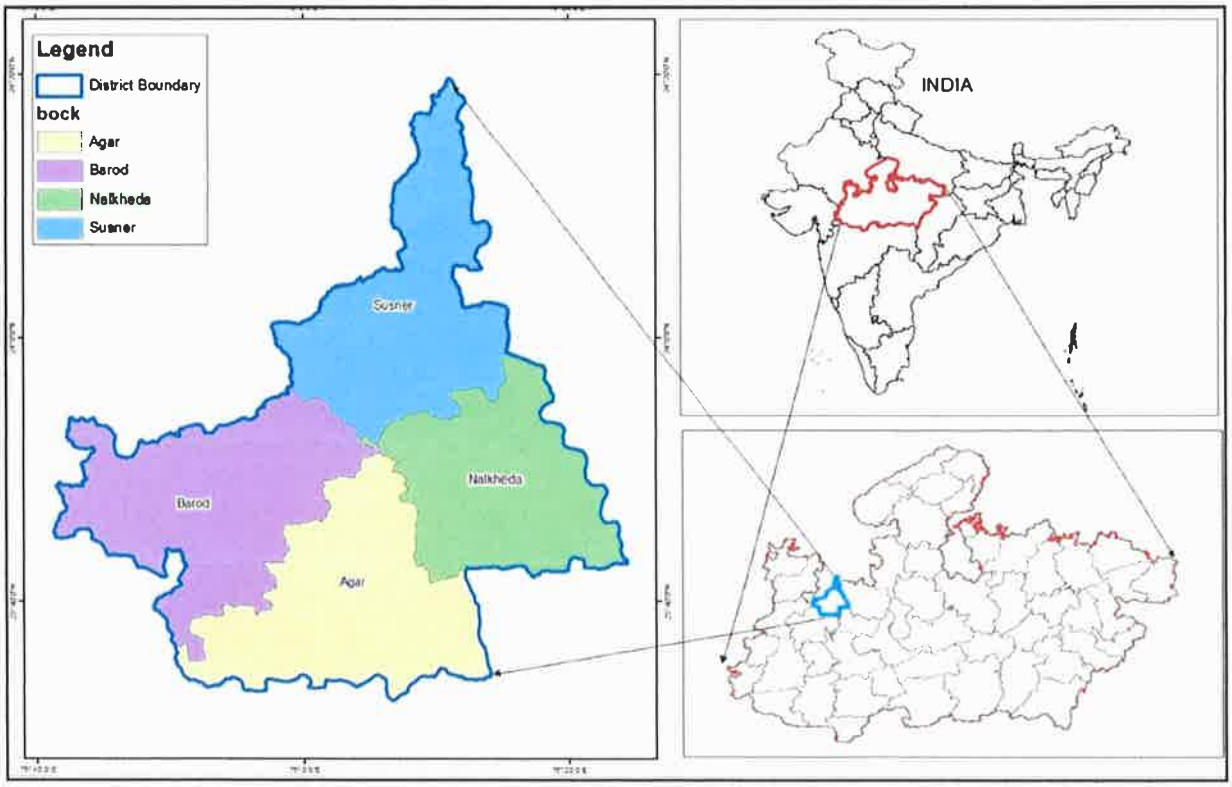
DISTRICT SURVEY REPORT
(MINOR MINERAL)
DISTRICT AGAR- MALWA, M.P.



As per Gazette Notification, of Ministry of Environment, Forest and Climate Change, The Government of India Notification No S.O. 141 (E) Dated 15.01.2016 & S.O. 3611 (E) New Delhi, 25.07.2018 and "Enforcement & Monitoring Guidelines for Sand Mining 2020.

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

प्रभारी अधिकारी
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जिला आगर मालवा (म.प्र.)

Minor Mineral

Final

कार्यालय कलेक्टर (खनिज शाखा) जिला-आगर मालवा (म.प्र.)

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क्रमांक/ 2124 /खनिज/2022 आगर मालवा दिनांक 02./09/2022

प्रति,

सदस्य सचिव,
राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC)
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी,
भोपाल (म.प्र.)

विषयः- अनुमोदन हेतु संशोधित जिला सर्वेक्षण रिपोर्ट अन्य गौण खनिज (खनिज रेत को छोडकर) हेतु प्रस्तुत करने बाबत् ।

संदर्भः- 588 वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 16 अगस्त 2022 ।

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उपरोक्त विषयांतर्गत लेख है कि, पूर्व में अन्य गौण खनिज (रेत खनिज को छोडकर) हेतु जिला सर्वेक्षण रिपोर्ट गठित समिति द्वारा अनुमोदित की जाकर पत्र क्रमांक/2037/खनिज/2022 आगर मालवा दिनांक 04.08.2022 से अनुमोदन हेतु सेक को प्रेषित की गई थी । राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की 588 वीं बैठक दिनांक 16 अगस्त 2022 द्वारा मिनट्स जारी किए गये । जिसमें विन्दु क्रमांक 14 में जिला सर्वेक्षण रिपोर्ट में हरित क्षेत्र के विकास हेतु खदानों में वृक्षारोपण की जानकारी अद्यतन किये जाने के निर्देश दिए गए । जिसके पालन में जिला सर्वेक्षण रिपोर्ट में आवश्यक संशोधन कर संशोधित जिला सर्वेक्षण रिपोर्ट अनुमोदन की अग्रिम कार्यवाही हेतु पत्र के साथ संप्रेषित है ।

संलग्नः- संशोधित जिला सर्वेक्षण रिपोर्ट अन्य गौण खनिज (रेत खनिज को छोडकर)

कलेक्टर
जिला आगर मालवा (म.प्र.)

पृ.क्रमांक/ /खनिज/2022 आगर मालवा दिनांक ...../09/2022

प्रतिलिपिः-

1. प्रमुख सचिव महोदय म.प्र. शासन खनिज साधन विभाग मंत्रालय वल्लभ भवन, भोपाल की ओर सूचनार्थ संप्रेषित ।
2. संचालक, प्रशासन एवं खनिकर्म (.प्र.म) भोपाल ,अरेरा हिल्स 'खनिज भवन' ए-29 ,की ओर सूचनार्थ संप्रेषित ।
3. सदस्य-सचिव, राज्य स्तरीय पर्यावरण सामाघात निर्धारण प्राधिकरण म.प्र. (SEIAA) की ओर सूचनार्थ संप्रेषित ।
4. क्षेत्रीय प्रमुख, संचालनालय भौमिकी तथा खनिकर्म, क्षेत्रीय कार्यालय ~~बावल्यार~~ इन्दौर म.प्र. की ओर सूचनार्थ ।

कार्यालय कलेक्टर (खनिज शाखा) * जिला आगर मालवा मध्यप्रदेश *

कलेक्टर
जिला आगर मालवा (म.प्र.)

कार्यालय कलेक्टर (खनिज शाखा) जिला-आगर मालवा (म.प्र.)

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क्रमांक/ 2092 /खनिज/2022 आगर मालवा दिनांक 31./08/2022

प्रति,

सदस्य सचिव
राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC)
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी,
भोपाल (म.प्र.)

विषयः- अनुमोदन हेतु संशोधित जिला सर्वेक्षण रिपोर्ट अन्य गौण खनिज (खनिज रेत को छोडकर) हेतु प्रस्तुत करने बाबत् ।

संदर्भः- 588 वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक दिनांक 16 अगस्त 2022 ।

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उपरोक्त विषयांतर्गत लेख है कि, पूर्व में अन्य गौण खनिज (रेत खनिज को छोडकर) हेतु जिला सर्वेक्षण रिपोर्ट गठित समिति द्वारा अनुमोदित की जाकर पत्र क्रमांक/2037/खनिज/2022 आगर मालवा दिनांक 04.08.2022 से अनुमोदन हेतु सेक को प्रेषित की गई थी । राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की 588 वीं बैठक दिनांक 16 अगस्त 2022 द्वारा मिनट्स जारी किए गये । जिसमें बिन्दु क्रमांक 14 में जिला सर्वेक्षण रिपोर्ट में हरित क्षेत्र के विकास हेतु खदानों में वृक्षारोपण की जानकारी अद्यतन किये जाने के निर्देश दिए गए । जिसके पालन में जिला सर्वेक्षण रिपोर्ट में आवश्यक संशोधन कर संशोधित जिला सर्वेक्षण रिपोर्ट अनुमोदन की अग्रिम कार्यवाही हेतु पत्र के साथ संप्रेषित है ।

संलग्नः- संशोधित जिला सर्वेक्षण रिपोर्ट अन्य गौण खनिज (रेत खनिज को छोडकर)

प्रभारी अधिकारी
(खनिज शाखा)
जिला आगर मालवा (म.प्र.)

पृ.क्रमांक/ /खनिज/2022 आगर मालवा दिनांक ...../08/2022

प्रतिलिपिः-

1. प्रमुख सचिव महोदय म.प्र. शासन खनिज साधन विभाग मंत्रालय वल्लभ भवन, भोपाल की ओर सूचनार्थ संप्रेषित ।
2. संचालक, प्रशासन एवं खनिकर्म (.प्र.म) भोपाल ,अरेरा हिल्स 'खनिज भवन' ए-29 ,की ओर सूचनार्थ संप्रेषित ।
3. सदस्य-सचिव, राज्य स्तरीय पर्यावरण सामाघात निर्धारण प्राधिकरण म.प्र. (SEIAA) की ओर सूचनार्थ संप्रेषित ।
4. क्षेत्रीय प्रमुख, संचालनालय भौमिकी तथा खनिकर्म, क्षेत्रीय कार्यालय जबलपुर म.प्र. की ओर सूचनार्थ ।

प्रभारी अधिकारी
(खनिज शाखा)
जिला आगर मालवा (म.प्र.)

कार्यालय कलेक्टर (खनिज शाखा) जिला आगर मालवा मध्यप्रदेश

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क्रमांक/ 2037 /खनिज/2022 आगर मालवा दिनांक 04../08/2022

प्रति,

सदस्य सचिव,
राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC)
पर्यावरण परिसर, ई-5, अरेरा कॉलोनी,
भोपाल (म.प्र.)

विषयः- जिला सर्वेक्षण रिपोर्ट अन्य गौण खनिज (DSR) 2021 के संबंध में।

संदर्भः- संचालक भौमिकी तथा खनिकर्म भोपाल का पत्र क्रमांक/2981/खनिज/विविध/न.क./2022 दिनांक 03/03/2022।

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उपरोक्त विषयांतर्गत माननीय सर्वोच्च न्यायालय द्वारा सिविल अपील क्रमांक 3661-3662/2020 (बिहार राज्य एवं अन्य विरूद्ध पवन कुमार एवं अन्य) में पारित आदेश दिनांक 10.11.2021, भारत सरकार पर्यावरण, वन एवं जलवायु मंत्रालय द्वारा जारी अधिसूचना दिनांक 15.01.2016 तथा अधिसूचना दिनांक 25.07.2018 सस्टेनेबल सेण्ड माईनिंग मेनेजमेन्ट गाईडलाईन 2016 एवं इनफोर्समेन्ट मानिटरिंग फार सेण्ड माईनिंग 2020 गाईड लाईन के पालन में संचालक (प्रशासन एवं खनिकर्म) भोपाल के संदर्भित पत्र में वर्णित दिशा-निर्देशानुसार गठित समिति द्वारा प्रारूप जिला सर्वेक्षण रिपोर्ट अन्य गौण खनिज (रेत खनिज को छोडकर) हेतु तैयार की जाकर अनुमोदन हेतु अनुशंसा की गई है।

अतः उपरोक्तानुसार समिति द्वारा जिला सर्वेक्षण रिपोर्ट अन्य गौण खनिज (रेत खनिज को छोडकर) हेतु अनुमोदित की जाकर अग्रिम कार्यवाही हेतु पत्र के साथ संप्रेषित है।

संलग्नः- सर्वेक्षण रिपोर्ट अन्य गौण खनिज (DSR) 2021

o/c

कलेक्टर
जिला आगर मालवा (म.प्र.)

पृ.क्रमांक/ 2038 /खनिज/2022 आगर मालवा दिनांक 04../08/2022

प्रतिलिपिः-

1. प्रमुख सचिव महोदय म.प्र. शासन खनिज साधन विभाग मंत्रालय वल्लभ भवन, भोपाल की ओर सूचनार्थ संप्रेषित।
2. संचालक, प्रशासन एवं खनिकर्म (.प्र.म) भोपाल ,अरेरा हिल्स 'खनिज भवन' ए-29 ,की ओर सूचनार्थ संप्रेषित।
3. सदस्य-सचिव, राज्य स्तरीय पर्यावरण सामाघात निर्धारण प्राधिकरण म.प्र. (SEIAA) की ओर सूचनार्थ संप्रेषित।
4. क्षेत्रीय प्रमुख, संचालनालय भौमिकी तथा खनिकर्म, क्षेत्रीय कार्यालय जबलपुर म.प्र. की ओर सूचनार्थ।

o/c

कलेक्टर
जिला आगर मालवा (म.प्र.)

प्रभारी अधिकारी
खनिज
जिला आगर-मालवा

कार्यालय कलेक्टर (खनिज शाखा) जिला–आगर मालवा (म0प्र0)

कमांक / खनिज / 2022 / 1524 आगर–मालवा दिनांक 31 / 03 / 2022

–:: आदेश ::–

उपरोक्त विषयांकित संदर्भित पत्र के परिपालन में प्रत्येक जिले में सस्टेनेबल सेण्ड माईनिंग मेनेजमेंन्ट गाईडलाईन 2016 एवं इनफोर्समेंट मानिटरिंग फार सेण्ड माईनिंग 2020 के अंतर्गत रेत खनिज हेतु जिला सर्वेक्षण रिर्पोट तैयार किया जाना है। माननीय सर्वोच्च न्यायालय द्वारा सिविल अपील कमांक 3661–3662 / 2020 (बिहार राज्य एवं अन्य विरूद्व पवन कुमार एवं अन्य) मे पारित आदेश दिनांक 10.11.2021 के अनुसार एवं सस्टेनेबल सेण्ड माईनिंग मेनेजमेन्ट गाईडलाईन 2016 एवं इनफोर्समेंट फार सेण्ड माईनिंग 2020 के पालन में प्रारूप डी.एस.आर रिर्पोट तैयार करने हेतु निम्नानुसार समति गठित की जाती है :–

1. श्री सोहन कनाश अनुविभागीय अधिकारी (राजस्व) सुसनेर–नलखेडा जिला आगर मालवा
2. श्री हेमन्त कुमार तिवारी (क्षेत्रीय प्रदूषण नियंत्रण अधिकारी) उज्जैन
3. श्री अंकित जामोद उप वनमण्डलाधिकारी अधिकारी जिला आगर मालवा
4. श्री सतीश कुमार मिश्रा प्रभारी अधिकारी (खनिज शाखा) जिला आगर मालवा
5. श्री अनमोल टोपो सहायक यंत्री जल संसाधन विभाग आगर–मालवा

अतः उक्त गठित समति डी.एस.आर रिर्पोट तैयार कर प्रस्तुत करना सुनिश्चित करे।

कलेक्टर
जिला आगर–मालवा

कमांक / खनिज / 2022 / आगर–मालवा दिनांक / / 2022

प्रतिलिपि :–

1. श्री सोहन कनाश, अनुविभागीय अधिकारी (राजस्व) सुसनेर–नलखेडा जिला आगर मालवा की ओर सूचनार्थ एवं पालनार्थ।
2. श्री हेमन्त कुमार तिवारी (क्षेत्रीय प्रदूषण नियंत्रण अधिकारी) उज्जैन की ओर सूचनार्थ एवं पालनार्थ।
3. श्री अंकित जामोद उप वनमण्डलाधिकारी अधिकारी जिला आगर मालवा की ओर सूचनार्थ एवं पालनार्थ।
4. श्री सतीश कुमार मिश्रा प्रभारी अधिकारी (खनिज शाखा) जिला आगर मालवा की ओर सूचनार्थ एवं पालनार्थ
5. श्री अनमोल टोपो सहायक यंत्री जल संसाधन विभाग आगर–मालवा की ओर सूचनार्थ एवं पालनार्थ।

कलेक्टर
जिला आगर–मालवा

प्रभारी अधिकारी
खनिज
जिला आगर–मालवा

माननीय सर्वोच्च न्यायालय द्वारा सिविल अपील क्रमांक 3661-3662/2020 (बिहार राज्य एवं अन्य विरूद्ध पवन कुमार एवं अन्य) में पारित आदेश दिनांक 10.11.2021, भारत सरकार पर्यावरण, वन एवं जलवायु मंत्रालय द्वारा जारी अधिसूचना दिनांक 15.01.2016 तथा अधिसूचना दिनांक 25.07.2018 सस्टेनेबल सेण्ड माईनिंग मेनेजमेन्ट गाईडलाईन 2016 एवं इनफोर्समेन्ट मानिटरिंग फार सेण्ड माईनिंग 2020 गाईड लाईन के पालन में संचालक (प्रशासन एवं खनिकर्म) भोपाल के आदेश क्रमांक/2981/खनिज/विविध/न.क./2022 दिनांक 03/03/2022 तथा कलेक्टर महोदय जिला आगर मालवा आदेश क्रमांक/खनिज/2022/1524 आगर मालवा दिनांक 31.03.2022 के पालन मे प्रारुप जिला सर्वेक्षण रिपोर्ट (डीएसआर) तैयार किया जाने हेतु गठित समिति द्वारा गौण खनिज (रेत को छोडकर) हेतु जिला सर्वेक्षण रिपोर्ट तैयार कर अनुमोदित की जाती है :-

क्रमांक	अधिकारी का नाम	पदनाम	हस्ताक्षर
1.	श्री सोहन कनाश	अनुविभागीय अधिकारी (राजस्व) सुसनेर- नलखेडा जिला आगर मालवा	
2.	श्री हेमन्त कुमार तिवारी	(क्षेत्रीय प्रदूषण नियंत्रण अधिकारी) उज्जैन	
3.	श्री अंकित जामोद	उप वनमण्डलाधिकारी जिला आगर मालवा	
4.	श्री सतीश कुमार मिश्रा	प्रभारी अधिकारी (खनिज शाखा) जिला आगर मालवा	
5.	श्री अनमोल टोपो	सहायक यंत्री (जल संसाधन विभाग) जिला आगर मालवा	

प्रभारी अधिकारी
खनिज
जिला आगर-मालवा

कार्यालय कलेक्टर (खनिज शाखा) जिला-आगर मालवा (म.प्र.)

E-mail: modgmaga@mp.gov.in, Website:- agarmalwa.mp.gov.in

क्रमांक/ 1604 /खनिज/2022 आगर मालवा दिनांक 29../04/2022

प्रति,

जिला सूचना एवं विज्ञान अधिकारी,
कार्यालय कलेक्टर (एन.आई.सी)
जिला आगर मालवा (म.प्र.)

विषयः- सस्टेनेबल सेण्ड माईनिंग मेनेजमेंट गाईडलाईन 2016 एवं इनफोर्समेंट मानिटरिंग फार सेण्ड माईनिंग 2020 के अंतर्गत खनिज रेत एवं अन्य गौण खनिज हेतु पृथक-पृथक जिला सर्वेक्षण रिपोर्ट तैयार किये जाने के संबंध में।

संदर्भः- कार्यालय कलेक्टर (खनिज शाखा) जिला आगर मालवा का पत्र क्रमांक/खनिज/2022/1524 आगर मालवा दिनांक 31.03.2022।

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उपरोक्त विषय में माननीय सर्वोच्च न्यायालय द्वारा सिविल अपील क्रमांक 3661-3662/2022 (बिहार राज्य एवं अन्य विरूद्ध पंकज कुमार एवं अन्य) में पारित आदेश दिनांक 10.11.2021, भारत सरकार पर्यावरण, वन एवं जलवायु मंत्रालय द्वारा जारी अधिसूचना दिनांक 15.01.2016 तथा अधिसूचना दिनांक 25.07.2018 सस्टेनेबल सेण्ड माईनिंग मेनेजमेन्ट गाईडलाईन 2016 एवं इनफोर्समेन्ट मानिटरिंग फार सेण्ड माईनिंग 2020 गाईड लाईन के पालन में संचालक (प्रशासन एवं खनिकर्म) भोपाल के संदर्भित पत्र में वर्णित दिशा-निर्देशानुसार वर्ष 2021-22 हेतु प्रारूप जिला सर्वेक्षण रिपोर्ट (डीएसआर) तैयार किया जाने हेतु गठित समिति द्वारा खनिज रेत एवं अन्य गौण खनिज हेतु पृथक-पृथक तैयार की गई है। संचालक प्रशासन एवं खनिकर्म भोपाल के पत्र क्रमांक 2981/खनिज/विविध/न.क./2022 दिनांक 03.03.2022 में वर्णित दिशा निर्देशानुसार गठित समिति द्वारा वर्ष 2021-22 हेतु अनुमोदित जिला सर्वेक्षण रिपोर्ट (डीएसआर) आमजन के अवलोकन/सुझाव हेतु 21 दिवस के लिए कलेक्टर कार्यालय में एक प्रति रखे जाने तथा जिले के एन.आई.सी. पोर्टल पर प्रदर्शित किये जाने के निर्देश दिए गए हैं।

अतः उपरोक्तानुसार अनुमोदित जिला सर्वेक्षण रिपोर्ट (डीएसआर) प्रारूप, पत्र के संलग्न प्रेषित कर लेख है कि उन्हे आमजन के अवलोकन/सुझाव हेतु 21 दिवस के लिये कलेक्टर कार्यालय जिला आगर मालवा के एन.आई.सी. पोर्टल पर पोस्ट/दर्शित किया जाने हेतु उचित कार्यवाही करने का कष्ट करें।

प्रभारी अधिकारी
(खनिज शाखा)
जिला आगर मालवा (म.प्र.)

पृ.क्रमांक/ 1605 /खनिज/2022 आगर मालवा दिनांक 29../04/2022

प्रतिलिपिः-

1. सदस्य-सचिव, मध्यप्रदेश राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (MPSEAC) की ओर सूचनार्थ।
2. संचालक (प्रशासन एवं खनिकर्म) खनिज भवन, अरेरा हिल्स, भोपाल की ओर सादर सूचनार्थ।
3. कलेक्टर जिला आगर मालवा की ओर सादर सूचनार्थ।
4. अवर सचिव म.प्र. शासन खनिज साधन विभाग मंत्रालय वल्लभ भवन, भोपाल की ओर सूचनार्थ।
5. संबंधित (सर्व)..... की ओर सूचनार्थ संप्रेषित।

प्रभारी अधिकारी
(खनिज शाखा)
जिला आगर मालवा (म.प्र.)

प्रभारी अधिकारी
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जिला आगर-मालवा

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

District Survey Report: Agar Malwa

1. Introduction

In pursuance to the Gazette Notification, Ministry of Environment, Forest and Climate Change (MoEF & CC), the **Government of India Notification No S.O. 141 (E) Appendix–X, Dated 15.01.2016 & S.O. 3611 (E) New Delhi, 25th July 2018** laid procedure for preparation of District Survey Report of minor mineral (other than sand) mining. The main purpose of preparation of District Survey Report (DSR) is to identify the minor mineral resources and developing the mining activities along with other relevant data of the district.

The process of making a DSR includes:

- Collection of baseline data from the department
- Development of related maps from satellite and secondary sources
- Understanding river flows and sedimentation vis-à-vis sand mining
- Tabulation and mapping of existing minor mineral mining locations and yield
- Correlation with satellite data for pre and post monsoon sand yield
- Suggesting new locations for minor mineral mining approvals
- Design and Development of DSR as per MoEF guidelines
- Collection of data from concern departments

For the first time, the Ministry of Environment, Forests and Climate Change (MoEF&CC) has released guidelines to monitor and check illegal sand mining in the country.

- Sustainable Sand Management Guidelines (SSMG), 2016 focuses on the management of sand mining, but there was a need to have guidelines for effective enforcement of regulatory provisions and their monitoring.
- The 2020 guidelines are to be enforced simultaneously with the SSMG, 2016, in case of conflict; the new set will hold legal precedence. 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.
- However, 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.

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

- Illegal and uncontrolled illegal mining also leads to loss of revenue to the State and degradation of the environment.

The fair and rapid advancement of technology in country has enabled surveillance and remote monitoring in the field of mining for the effective monitoring of the mining activities, particularly, sand mining. States are now utilizing remote sensing to prevent illegal mining. Rules have been made to prevent 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. Thus, an effective policy for monitoring of sand mining in the Country has been enforced focusing 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.

- 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 and put detailed survey reports of all mining areas in the public domain.
- Transparency: Online sales and purchase of sand and other riverbed materials (RBM) for transparency in the process.
- 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 impacts arising due to excessive sand extraction.

प्रभारी अधिकारी
खनिज
जिला आगर-मालवा

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

- While the Sustainable Sand Mining Guidelines, 2016, require the preparation of District Survey Reports (DSR), which is an important initial step before grant of mining lease.

Location and boundaries:

Agar Malwa is a town with a municipal government in the state of Madhya Pradesh, India. It is the administrative headquarters for the Agar Malwa District which was formed in 2013 from a part of Shajapur District. The town is situated along the Ujjain—Kota SH-27 highway. The height of this tract varies between 500 metres (1,600 ft) and 545 meters (1,788 ft) above the mean sea level and it slopes towards the north.

Agar Malwa District is a district of Madhya Pradesh state in central India. The city of Agar is the administrative headquarters of the district. The western part of the district is marked by the Agar Plateau that covers the major areas of Agar Malwa district. There is a hill tract to the west of the town of Badod, showing scattered hillocks in a north-south direction. The presence of hills in the center has affected the drainage pattern. The district is bounded in the East by Rajgarh district, in the south by Shajapur & Ujjain and in the North by Rajasthan State.

The rest of the road section passes through the Ratlam district where the physiology comprises the Malwa Plateau where the elevation ranges from about 1,650 to 2,000 feet (500 to 600 metres); erosion has carved the ancient lava flows into isolated mesas found throughout the plateau, together with an occasional sandstone hill. The western part of the region is drained by the Mahi River, the middle section by the Chambal River and other rivers include the Sipra, Maleni, Rajhara and Rattagarh, their valleys flanked by terraced slopes.

The western part of the district is marked by the Agar Plateau that covers the major areas of Agar Malwa district. There is a hill tract to the west of the town of Badod, showing scattered hillocks in a north-south direction. The presence of hills in the center has affected the drainage pattern.

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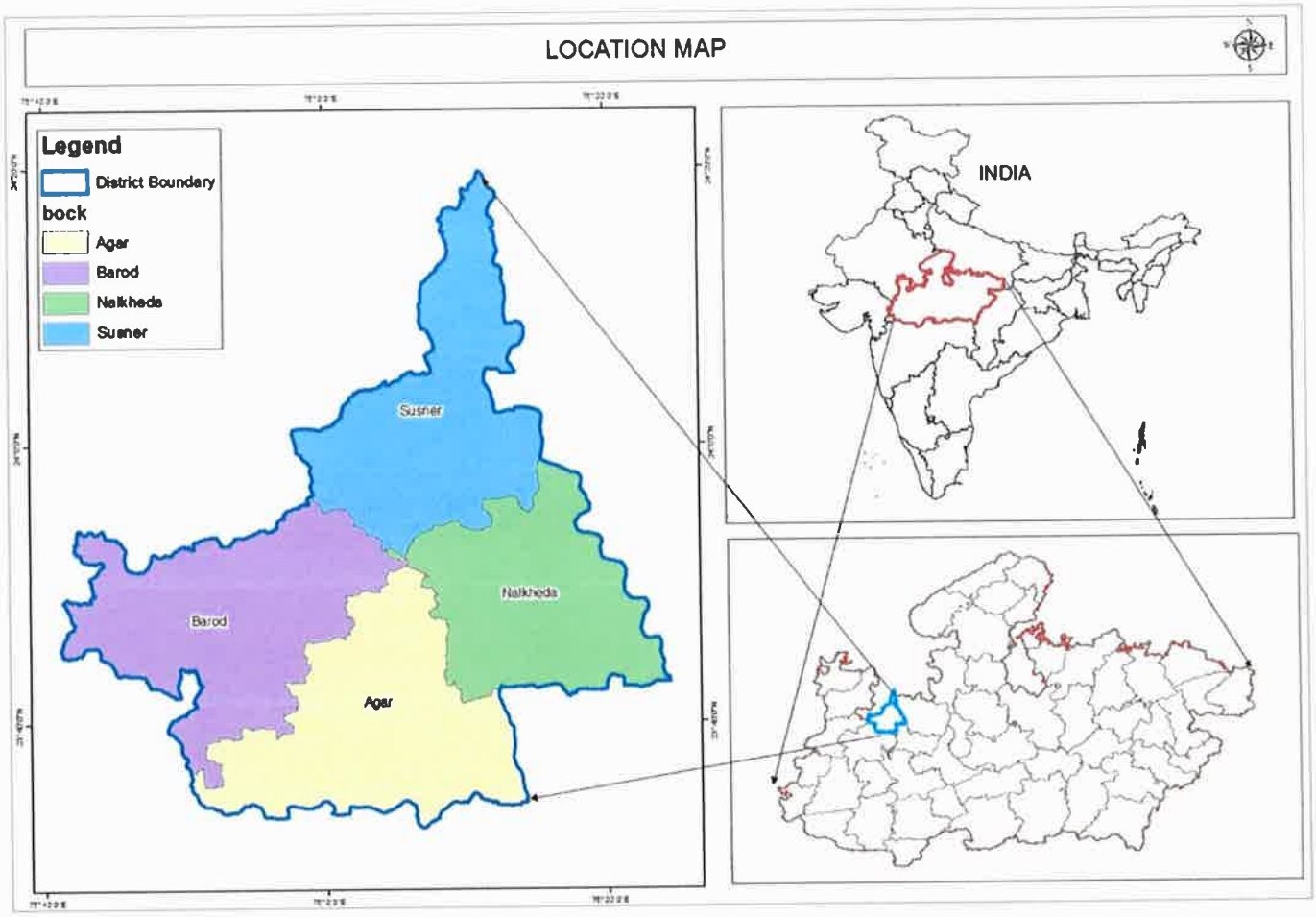

Figure 1 Location Map of the District

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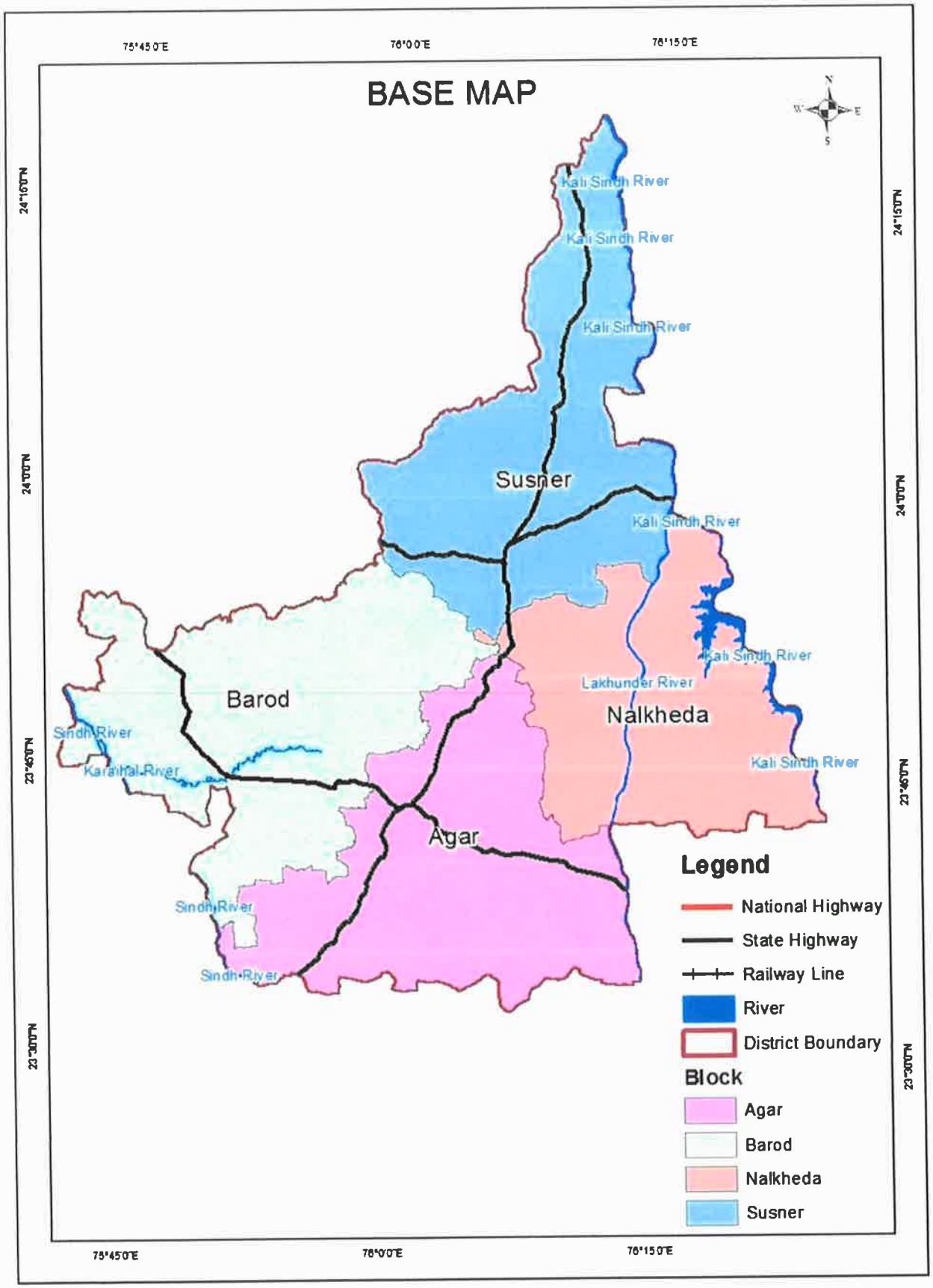

Figure 2 Base Map of the District

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History: It was a division during the Sindhia state (some of their palaces are still presently used for city court and for other government offices). It was formerly a cantonment region at the time of India's independence because of the favorable weather and the availability of water. It was a district under the state of Madhya Bharat after the independence of India until 1956. Since 16 August 2013 Agar Malwa has been the 51st district of Madhya Pradesh. The district was formed by removing Agar, Badod, Susner and Nalkheda tehsils from Shajapur District, decreasing its size. It was formerly a cantonment region at the time of India's independence because of the favorable weather and the availability of water. It was a district under the state of Madhya Bharat after the independence of India until 1956. Since 16 August 2013 Agar Malwa has been the 51st district of Madhya Pradesh.

Table 1 Administrative Setup of the District

TEHSIL	BLOCKS
Agar	Agar
Barod	Barod
Susner	Susner
Nalkheda	Nalkheda

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2. Overview of Mining Activity in the District

The district does not have any major minerals. Mainly, only minor minerals like boulder, Gitti and Murrum are found in Agar Malwa. Basalt is a main rock for production of gitti and boulder stone. Apart from basalt rock, sand is found in rivers which is black and is of low quality. There is possibility of laterite in certain parts of the districts such as kasba Agar, Jamuniya, Baijnath, Nipaniya, Ghosipura, Kashibardiya, Bapcha, Binayaka, Kakariya, Barkheda, Kankdel, Amla etc. there are total 72 minor minerals sanction mines in the district out of which 59 for minerals gitti stone, 11 for sand, one for murum and one for laterite. presently 52 gitti mines are working and 7 non working. Murum and laterite mines are also non working. All mines are open cast mine in the district. Total revenue received for 2021-2022 4.82 cr. This is in increasing order from last three years. It shows that district has good potential for revenue generation and exploration in future for laterite mineral.

Table 2 Mineral Production in the District

Sr. No.	Mineral	Production in C.M/Tones
Major Mineral		
1.	Nil	Nil
Minor Mineral		
2.	Stone/ Gitti	174155.1 Cu.M.
3.	Sand	1665.1 Cu.M
4.	Murrum	15000 Cu.M.

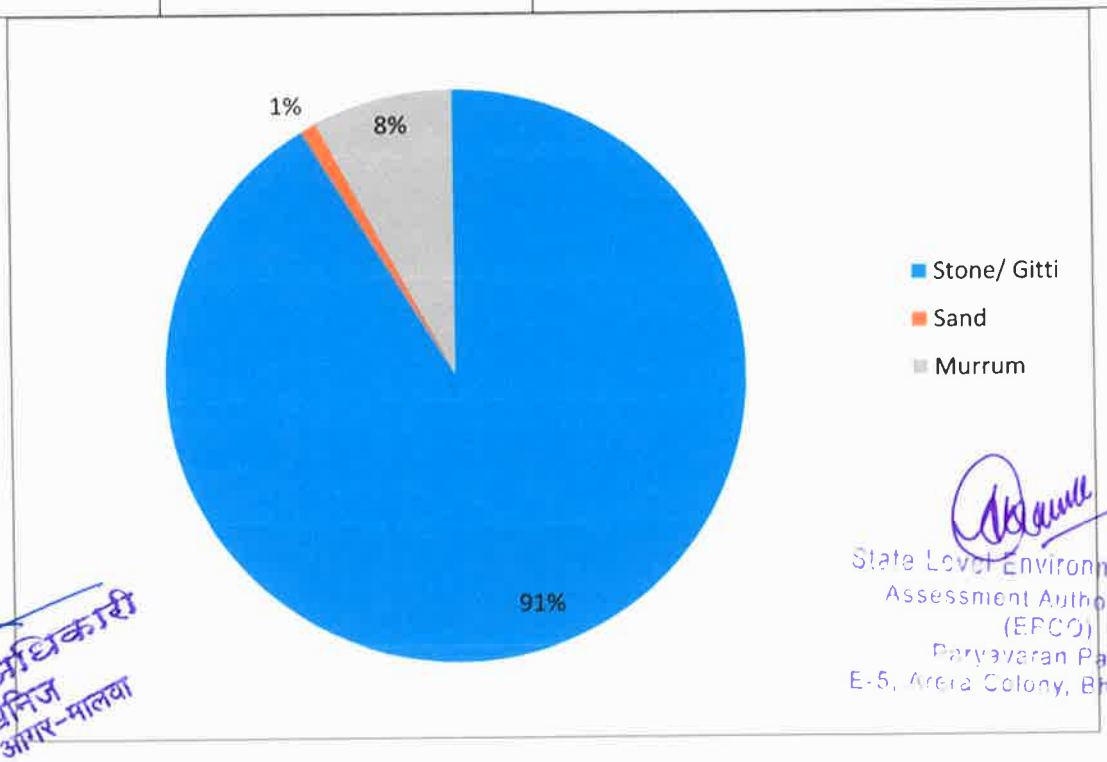

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Figure 3 Production of Minor Mineral Mining in the District

3. List of the Letter of the Intent Holder and existing Minor Mineral (Other than Sand) Lease in theDistrict

3.1 Minor Minerals Mine in the District

Table 3 Gitti/Stone Mines in the District

S. No.	Name of the Lessee	Name of theMineral	Khasra Number	Area inHa.	Village/Tehsil	Obtained Environmental Clearance (Yes/No)	Mining Lease Grant Order No. & date	Date of commencement of Mining Operation	Validity of theLease	Captive/Non Captive	Mining Method	Operational/ Non-Operational	Co-ordinates	
1	Arvind Sharma-ShriRamnarayan Sharma	Gitti	885	2.00	Dongargovan Susner	3870 09/01/2020	Lease Order No. : 355, Lease Order Date : 04/09/2018	12/03/2020	18/09/2018 – 17/09/2028	Non Captive	Open cast	Operational	A	N 24°14'3.17" E 76°09'11.39"
													B	N 24°13'58.21" E 76°09'16.98"
													C	N 23°13'54.96" E 76°09'15.78"
													D	N 23°13'59.70" E 76°09'10.48"
2	Ashok Kumar Jain-ShriHukum Chand Jain	Gitti	428	2.52	Parsukhedi Agar	1784 08/06/2015	Lease Order No. : 610, Lease Order Date : 11/12/2014	04/03/2015	04/03/2015 – 03/03/2025	Non Captive	Open cast	Operational	A	N 23°42'09.49" E 76°02'06.62"
													B	N 23°42'07.91" E 76°02'11.01"
													C	N 23°42'02.96" E 76°02'11.52"
													D	N 23°42'02.05" E 76°02'06.65"
3	Baboo Singh Rathor-ShriBharu Singh Rathor	Gitti	2329/1	2.00	Kasba Agar Agar	30 04/10/2018	Lease Order No. : 101, Lease Order Date : 31/05/2018	01/12/2018	08/05/2018 – 07/05/2028	Non Captive	Open cast	Operational	A	N 23°42'09.40" E 76°01'58.00"
													B	N 23°42'09.30" E 76°02'04.20"
													C	N 23°42'03.30" E 76°02'03.20"
													D	N 23°42'04.50" E 76°01'57.10"
4	Babulal Bijapari-ShriMunna Lal Bijapari	Gitti	283	2.00	Naniyakhedi Agar	11611 26/02/2016	Lease Order No. : 134, Lease Order Date : 28/04/2015	01/02/2015	01/02/2015 – 31/01/2025	Non Captive	Open cast	Operational	A	N 23°40'26.67" E 76°07'47.42"
													B	N 23°40'25.40" E 76°07'51.57"
													C	N 23°40'32.53" E 76°07'57.49"
													D	N 23°40'33.62" E 76°07'52.89"

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5	Balu Singh-Shri GulabSingh	Gitti	995	2.00	Jamli Barod	8409 30/11/2015	Lease Order No. : 290, Lease Order Date : 16/07/2014	28/08/2014	28/08/2014 – 27/08/2024	Non Captive	Open cast	Operational	A	N 23°44'21.64" E 75°55'48.30"
													B	N 23°44'21.64" E 75°55'53.53"
													C	N 23°44'14.76" E 75°55'53.86"
													D	N 23°44'15.39" E 75°55'49.34"
6	Bharat Singh Chouhan-Shri Pur Sing Chouhan	Gitti	70	1.00	Lalakhedi Susner	81767 06/11/2020	Lease Order No. : 241, Lease Order Date : 23/12/2013	01/01/2014	01/01/2014 – 31/12/2023	Non Captive	Open cast	Operational	A	N 24°04'01.30" E 76°08'43.23"
													B	N 24°04'02.40" E 76°08'48.30"
													C	N 24°04'00.10" E 76°08'48.60"
													D	N 24°03'59.40" E 76°08'49.40"
7	Bharat Singh Chouhan-Shri Pur Sing Chouhan	Gitti	44	2.00	Lalakhedi Susner	5708 22/09/2015	Lease Order No. : 245, Lease Order Date : 23/12/2013	03/09/2014	03/03/2014 – 02/03/2024	Non Captive	Open cast	Operational	A	N 24°04'15.07" E 76°08'45.49"
													B	N 24°04'16.16" E 76°08'50.02"
													C	N 24°04'11.87" E 76°08'52.16"
													D	N 24°04'10.66" E 76°08'47.39"
8	Bhupendra Sharma-ShriKrishnavallabh Sharma	Gitti	1057	2.00	Jamli Barod	6953 30/10/2015	Lease Order No. : 260, Lease Order Date : 02/07/2014	16/07/2014	16/07/2014 – 15/07/2024	Non Captive	Open cast	Operational	A	N 23°44'16.32" E 75°55'47.29"
													B	N 23°44'19.48" E 75°55'47.01"
													C	N 23°44'19.99" E 75°55'54.01"
													D	N 23°44'16.28" E 75°55'53.75"
9	Bhupendra Singh-ShriKailash Narayan	Gitti	144, 145	1.90	Amiya Agar	186 30/05/2016	Lease Order No. : 491, Lease Order Date : 23/12/2015	29/05/2016	12/01/2016 – 11/01/2026	Non Captive	Open cast	Operational	A	N 23°40'19.33" E 76°07'48.43"
													B	N 23°40'19.42" E 76°07'51.18"
													C	N 23°40'26.19" E 76°07'55.91"
													D	N 23°40'28.22" E 76°07'53.76"
10	Chandrapal Singh Rajput-Shri Amar SinghRajput	Gitti	952 Min 27	2.00	Barod Barod	3052 13/03/2015	Lease Order No. : 246, Lease Order Date : 23/12/2013	13/02/2014	13/02/2014 – 12/02/2024	Non Captive	Open cast	Operational	A	N 23°47'18.07" E 75°50'23.04"
													B	N 23°47'18.12" E 75°50'30.57"
													C	N 23°47'15.02" E 75°50'30.08"
													D	N 23°47'15.11" E 75°50'23.01"

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11	Dilip Singh Sisodiya-ShriMoti Singh Sisodiya	Gitti	2	2.00	Akhli Susner	188 30/05/2016	Lease Order No. : 188, Lease Order Date : 20/05/2016	23/01/2018	28/10/2017 – 27/10/2027	Non Captive	Open cast	Operational	A	N 23°54'52.65" E 76°05'38.22"
													B	N 23°54'52.71" E 76°05'46.06"
													C	N 23°54'56.33" E 76°05'48.32"
													D	N 23°54'56.40" E 76°05'37.96"
12	Dilip Singh-Shri BhadurSingh Tawar	Gitti	1057	2.00	Jamli Barod	4934 06/01/2017	Lease Order No. : 261, Lease Order Date : 02/07/2014	16/07/2018	22/07/2014 – 21/07/2024	Non Captive	Open cast	Operational	A	N 23°44'8.52" E 75°56'11.22"
													B	N 23°44'11.62" E 75°56'12.29"
													C	N 23°44'12.33" E 75°56'5.16"
													D	N 23°44'9.82" E 75°56'3.55"
13	Gabbar Singh Gurjar-Shri Ramesh Chand Ji	Gitti	454	1.00	Sumrakhedi Agar	9744 23/12/2015	Lease Order No. : 383, Lease Order Date : 09/04/2012	No	18/04/2012 – 17/04/2022	Non Captive	Open cast	Operational	A	N 23°36'57.25" E 75°57'33.04"
													B	N 23°36'57.27" E 75°57'35.97"
													C	N 23°37'00.79" E 75°57'36.16"
													D	N 23°37'00.87" E 75°57'33.08"
14	Giriraj Bhalotha-Shri Vishnu Prasad Bhalotha	Gitti	1480	2.00	Nalkheda Nalkheda	193 30/05/2016	Lease Order No. : 616, Lease Order Date : 15/12/2014	15/09/2016	11/03/2015 – 10/03/2025	Non Captive	Open cast	Operational	A	N 23°49'30.76" E 76°16'07.27"
													B	N 23°49'31.33" E 76°16'11.03"
													C	N 23°49'38.57" E 76°16'10.23"
													D	N 23°49'38.13" E 76°16'06.35"
15	Gmv Infra	Gitti	566	3.50	Phentti Nalkheda	3013 06/11/2019	Lease Order No. : 427-428, Lease Order Date : 03/10/2018	26/11/2019	14/12/2018 – 13/12/2028	Non Captive	Open cast	Operational	A	N 23°51'4.80" E 76°15'23.2"
													B	N 23°51'3.30" E 76°15'27.90"
													C	N 23°51'10.57" E 76°15'27.0"
													D	N 23°51'11.30" E 76°15'23.50"
16	Gopal Parmar-Shri Nanalal Parmar	Gitti	272	2.00	Tanodiya Agar	192 30/05/2016	Lease Order No. : 341, Lease Order Date : 09/03/2021	15/07/2021	22/03/2021 – 21/03/2031	Non Captive	Open cast	Operational	A	N 23°03'00.53" E 77°45'36.56"
													B	N 23°03'00.53" E 77°45'36.56"
													C	N 23°03'00.53" E 77°45'36.56"
													D	N 23°03'00.53" E 77°45'36.56"

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17	Gopal Parmar-Shri Nanalal Parmar	Gitti	454	2.00	Sumrakhedi Agar	1774 03/06/2015	Lease Order No. : 618, Lease Order Date : 15/12/2014	04/03/2015	04/03/2015 – 03/03/2025	Non Captive	Open cast	Operational	A	N 23°37'02.00" E 75°57'24.00"
													B	N 23°37'00.8" E 75°57'28.00"
													C	N 23°36'54.4" E 75°57'28.50"
													D	N 23°36'35.5" E 75°57'24.40"
18	Jagdish Prasad Dangi-Shri Mukunda Ram Dangi	Gitti	824	1.96	Soyatkhurd Susner	82 17/02/2017	Lease Order No. : 411, Lease Order Date : 29/07/2016	19/05/2017	15/09/2016 – 14/09/2026	Non Captive	Open cast	Operational	A	N 24°06'35.05" E 76°12'05.71"
													B	N 23°06'34.82" E 76°12'09.97"
													C	N 24°06'30.00" E 76°12'09.80"
													D	N 24°06'32.23" E 76°12'05.61"
19	Kamal Gupta-Shri ShreeNath Gupta	Gitti	1379	2.00	Soyatkala Susner	13835 01/08/2018	Lease Order No. : 105, Lease Order Date : 03/03/2017	22/03/2017	22/03/2017 – 21/03/2027	Non Captive	Open cast	Operational	A	N 24°10'38.9" E 76°08'58.0"
													B	N 24°10'35.3" E 76°08'58.8"
													C	N 24°10'34.9" E 76°08'52.7"
													D	N 24°10'38.3" E 76°08'52.1"
20	Kamal Singh-Shri Shankar Singh Parihar	Gitti	13/2	2.00	Bargdi Barod	63 01/04/2019	Lease Order No. : 426, Lease Order Date : 01/10/2018	30/05/2019	04/10/2018 – 03/10/2028	Non Captive	Open cast	Operational	A	N 23°45'16.03" E 75°41'19.23"
													B	N 23°45'17.14" E 75°41'23.46"
													C	N 23°45'22.72" E 75°41'22.87"
													D	N 23°45'21.62" E 75°41'18.85"
21	Kushal Singh Parihar-Shri Narayan Singh	Gitti	13/1	1.80	Bargdi Barod	15 21/02/2018	Lease Order No. : 17804-805, Lease Order Date : 20/09/2017	16/05/2018	17/10/2017 – 16/10/2027	Non Captive	Open cast	Operational	A	N 23°45'20.17" E 75°41'19.94"
													B	N 23°45'21.79" E 75°41'25.67"
													C	N 23°45'19.42" E 75°41'26.98"
													D	N 23°45'16.46" E 75°41'22.08"
22	Lal Singh Rajput-ShriAmar Singh Rajput	Gitti	247/2	2.00	Kachnariya Agar	48 01/04/2019	Lease Order No. : 615, Lease Order Date : 03/01/2019	24/08/2019	15/01/2019 – 14/01/2029	Non Captive	Open cast	Operational	A	N 23°38'10.30" E 75°58'10.99"
													B	N 23°38'06.80" E 75°58'10.92"
													C	N 23°38'05.68" E 75°58'04.58"
													D	N 23°38'09.04" E 75°58'04.25"

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23	M P S Chandrawat-ShriJagdish Singh Chandrawat	Gitti	1550/3	1.55	Suigovan Nalkheda	2905 01/11/2019	Lease Order No. : 710, Lease Order Date : 22/02/2019	28/12/2019	05/03/2019 – 04/03/2029	Non Captive	Open cast	Operational	A N 23°49'49.8" E 76°10'05.3" B N 23°49'49.54" E 76°10'1.66" C N 23°49'55.07" E 76°10'2.45" D N 23°49'54.40" E 76°10'05.93"
24	M P S Chandrawat-Shri Jagdish Singh Chandrawat	Gitti	140	2.00	LasuldiyaKelwa Nalkheda	190 03/05/2016	Lease Order No. : 38, Lease Order Date : 03/02/2016	28/12/2017	01/02/2016 – 31/01/2026	Non Captive	Open cast	Operational	A N 23°50'27.86" E 76°10'43.06" B N 23°50'27.80" E 76°10'47.20" C N 23°50'32.78" E 76°10'48.50" D N 23°50'33.26" E 76°10'43.26"
25	Mahendra Singh Parmar-Shri Mangilal Parmar	Gitti	72/3, 79, 80	1.00	Devli Piplon Barod	26 04/10/2018	Lease Order No. : 177, Lease Order Date : 23/06/2018	06/11/2019	28/06/2018 – 27/06/2028	Non Captive	Open cast	Operational	A N 23°41'03.47" E 75°56'16.87" B N 23°41'02.87" E 75°56'20.4[illegible]" C N 23°41'03.66" E 75°56'22.76" D N 23°41'05.97" E 75°56'17.76"
26	Mahendra Singh-Shri Ishwar Singh	Gitti	838	1.00	Thinkriya Nalkheda	1740 08/06/2015	Lease Order No. : 4214-15, Lease Order Date : 23/03/2015	06/05/2015	06/05/2015 – 05/05/2025	Non Captive	Open cast	Operational	A N 23°46'24.87" E 76°16'46.13" B N 23°46'21.93" E 76°16'51.89" C N 23°46'19.65" E 76°16'46.13" D N 23°46'23.42" E 76°16'43.75"
27	Mahesh Kumar Sharma-Shri Jamuna Prasad Sharma	Gitti	2687	2.00	Susner Susner	3369 25/03/2015	Lease Order No. : 336, Lease Order Date : 29/08/2014	03/09/2014	03/09/2014 – 02/09/2024	Non Captive	Open cast	Operational	A N 23°55'23.84" E 76°05'34.04" B N 23°55'25.27" E 76°05'38.07" C N 23°55'19.26" E 76°05'40.31" D N 23°55'18.65" E 76°05'35.86"
28	Manish Gupta-Shri Jagdish Chandra Gupta	Gitti	1326/4 Min 1	2.00	Soyatkala Susner	07 21/02/2018	Lease Order No. : 630, Lease Order Date : 23/09/2017	10/01/2018	17/10/2017 – 16/10/2027	Non Captive	Open cast	Operational	A N 24°10'35.54" E 76°08'30.65" B N 24°10'35.67" E 76°08'37.81" C N 24°10'32.77" E 76°08'38.02" D N 24°10'32.53" E 76°08'30.66"

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29	Manoj Parmar-Shri Harikishan Parmar	Gitti	140	2.00	Badgon Agar	36 06/10/2018	Lease Order No. : 189, Lease Order Date : 26/06/2018	12/09/2019	06/10/2018 – 05/10/2028	Non Captive	Open cast	Operational	A	N 23°38'12.35" E 75°58'30.21"
													B	N 23°38'11.62" E 75°58'35.59"
													C	N 23°38'9.18" E 75°58'35.05"
													D	N 23°38'8.63" E 75°58'28.09"
30	Mayur Jain-Shri SushilKumar Jain	Gitti	448/2	1.00	Kasba Agar Agar	7415 09/11/2015	Lease Order No. : 218, Lease Order Date : 28/05/2014	23/02/2019	05/06/2014 – 04/06/2024	Non Captive	Open cast	Operational	A	N 23°42'21.09" E 76°01'49.33"
													B	N 23°42'20.60" E 76°01'52.96"
													C	N 23°42'17.35" E 76°01'52.25"
													D	N 23°42'17.81" E 76°01'48.60"
31	Mod Singh-Shri AbhaySingh	Gitti	35	2.00	Khandwas Barod	17 03/05/2018	Lease Order No. : 832, Lease Order Date : 28/12/2017	01/10/2018	09/05/2018 – 08/05/2028	Non Captive	Open cast	Operational	A	N 23°50'47.69" E 75°46'57.68"
													B	N 23°50'48.60" E 75°47'02.50"
													C	N 23°50'43.67" E 75°47'02.83"
													D	N 24°50'43.00" E 75°46'58.39"
32	R K Infra	Gitti	2479/2 Min 1,2,3,4,5	1.00	Dharola Nalkheda	453 14/07/2017	Lease Order No. : 107, Lease Order Date : 03/03/2017	02/05/2017	22/03/2017 – 21/03/2027	Non Captive	Open cast	Operational	A	N 23°52'08.9" E 76°15'08.2"
													B	N 23°52'06.9" E 76°15'07.6"
													C	N 23°52'09.0" E 76°15'02.2"
													D	N 23°52'10.8" E 76°15'02.7"
33	Rajesh Arora-Shri Krishna Chandra Arora	Gitti	2329/1	2.00	Kasba Agar Agar	03 21/02/2018	Lease Order No. : 4384-85, Lease Order Date : 22/03/2017	18/01/2017	18/01/2017 – 17/01/2027	Non Captive	Open cast	Operational	A	N 23°42'11.488" E 76°1'52.325"
													B	N 23°42'10.432" E 76°1'55.870"
													C	N 23°42'4.569" E 76°1'53.810"
													D	N 23°42'5.625" E 76°01'50.265"
34	Rajesh Deshmukh-ShriLaxman Rao Deshmukh	Gitti	2702	2.00	Susner Susner	336 21/06/2016	Lease Order No. : 343, Lease Order Date : 09/03/2021	16/06/2021	30/11/2010 – 25/03/2031	Non Captive	Open cast	Operational	A	N 23°55'45.64" E 76°5'49.36"
													B	N 23°55'42.42" E 76°5'49.59"
													C	N 23°55'42.25" E 76°5'42.59"
													D	N 23°55'45.52" E 76°5'42.26"

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35	Rajesh Kumar Medatwal	Gitti	849	1.50	Dongargovan Susner	28 04/10/2018	Lease Order No. : 1108, Lease Order Date : 31/03/2018	05/07/2019	12/04/2018 – 11/04/2028	Non Captive	Open cast	Operational	A N 24°14'04.18" E 76°09'03.38" B N 24°14'02.08" E 76°09'08.13" C N 24°13'54.23" E 76°09'04.46" D N 24°13'56.22" E 76°08'59.28"
36	Rakesh Sharma-Shri Ram Narayan Sharma	Gitti	53	3.00	Pipliyanankar Susner	196 30/05/2016	Lease Order No. : 40, Lease Order Date : 03/02/2016	19/02/2016	01/02/2016 – 31/01/2026	Non Captive	Open cast	Operational	A N 23°55'46.10" E 76°01'49.72" B N 23°55'46.15" E 76°01'42.55" C N 23°55'54.64" E 76°01'41.81" D N 23°55'54.70" E 76°01'49.40"
37	Rameshwar Yadav-ShriBheru Singh Yadav	Gitti	574	2.00	Amla Agar	01 21/02/2018	Lease Order No. : 684, Lease Order Date : 10/04/2016	02/08/2018	11/07/2016 – 10/07/2026	Non Captive	Open cast	Operational	A N 23°50'50.72" E 76°6'40.08" B N 23°50'47.94" E 76°6'46.34" C N 23°50'45.78" E 76°6'46.29" D N 23°50'46.98" E 76°6'39.11"
38	Rameshwar Yadav-ShriBheru Singh Yadav	Gitti	468	1.00	Amla Agar	2955 09/03/2015	Lease Order No. : 217, Lease Order Date : 28/05/2014	05/06/2014	05/06/2014 – 04/06/2024	Non Captive	Open cast	Operational	A N 23°50'34.73" E 76°05'50.27" B N 23°50'33.09" E 76°05'54.26" C N 23°50'31.29" E 76°05'52.87" D N 23°50'32.53" E 76°05'49.38"
39	Ratan Lal Dangi-ShriKanyalal Dangi	Gitti	1326/4 Min 2	2.00	Soyatkala Susner	32 04/10/2018	Lease Order No. : 149, Lease Order Date : 20/06/2018	16/12/2019	25/06/2018 – 24/06/2028	Non Captive	Open cast	Operational	A N 24°10'34.95" E 76°08'30.50" B N 24°10'31.82" E 76°08'31.52" C N 24°10'30.10" E 76°08'24.71" D N 24°10'33.23" E 76°08'23.66"
40	Sanjay Jain-Shri Hastimal Jain	Gitti	802	2.00	Fathepurmendki Agar	185 30/05/2016	Lease Order No. : 369, Lease Order Date : 22/09/2015	11/07/2016	12/01/2016 – 11/01/2026	Non Captive	Open cast	Operational	A N 23°32'43.969" E 76°6'25.115" B N 23°32'43.948" E 76°6'28.15" C N 23°32'50.509" E 76°6'28.205" D N 23°32'50.537" E 76°6'24.23"

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41	Sanjay Patidar-ShriRadheshyam Patidar	Gitti	950, 941	1.00	Bhesoda Nalkheda	81 17/02/2017	Lease Order No. : 413, Lease Order Date : 30/07/2016	07/09/2020	06/10/2016 – 05/10/2026	Non Captive	Open cast	Operational	A	N 23°48'24.934" E 76°13'34.042"
													B	N 23°48'23.362" E 76°13'39.402"
													C	N 23°48'21.043" E 76°13'38.619"
													D	N 23°48'23.403" E 76°13'33.638"
42	Sanjay Singh Rathore-Shri Mahendra Singh Rathore	Gitti	277	2.00	Tanodiya Agar	335 21/06/2016	Lease Order No. : 1374, Lease Order Date : 07/02/2022	30/12/2021	28/03/2022 – 27/03/2032	Non Captive	Open cast	Renewed	A	N 23°36'51.803" E 75°57'35.509"
													B	N 23°36'51.021" E 75°57'40.132"
													C	N 23°36'46.625" E 75°57'36.233"
													D	N 23°36'47.500" E 75°57'31.759"
43	Sanjay Singh Rathore-Shri Mahendra Singh Rathore	Gitti	277, 289	2.00	Tanodiya Agar	4080 22/10/2020	Lease Order No. : 447-448, Lease Order Date : 06/10/2018	28/12/2020	26/12/2018 – 25/12/2028	Non Captive	Open cast	Operational	A	N 23°36'39.20" E 75°57'29.84"
													B	N 23°36'38.00" E 75°57'33.00"
													C	N 23°36'44.79" E 75°57'33.80"
													D	N 23°36'43.91" E 75°57'30.37"
44	Shankar Singh Sisodiya-Shri Bhagwan Singh Sisodiya	Gitti	795	1.00	Garbada Barod	05 21/02/2018	Lease Order No. : 234, Lease Order Date : 04/05/2017	05/09/2018	14/06/2017 – 13/06/2027	Non Captive	Open cast	Operational	A	N 23°43'40.12" E 75°52'42.99"
													B	N 23°43'40.20" E 75°52'46.82"
													C	N 23°43'36.72" E 75°52'46.85"
													D	N 23°43'36.66" E 75°52'42.99"
45	Shankar Singh Sisodiya-Shri Bhagwan Singh Sisodiya	Gitti	795	2.00	Garbada Barod	2302 25/11/2014	Lease Order No. : 4032/33, Lease Order Date : 22/02/2014	04/03/2013	04/03/2013 – 03/03/2023	Non Captive	Open cast	Operational	A	N 23°43'37.14" E 75°52'39.97"
													B	N 23°43'38.43" E 75°52'49.43"
													C	N 23°43'36.40" E 75°52'49.92"
													D	N 23°43'34.80" E 75°52'40.49"
46	Shree Balaji Tirupti Construction-Shri Chandra Prakash Varma	Gitti	2329/1	3.50	Kasba Agar Agar	8930 18/08/2015	Lease Order No. : 335, Lease Order Date : 29/08/2014	03/09/2014	03/09/2014 – 02/09/2024	Non Captive	Open cast	Operational	A	N 23°42'14.81" E 75°59'11.22"
													B	N 23°42'14.77" E 75°59'18.49"
													C	N 23°42'21.21" E 75°59'18.34"
													D	N 23°42'21.14" E 75°59'10.75"

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47	Shree Balaji Tirupti Construction-Shri Chandra Prakash Varma	Gitti	448/2	4.80	Kasba Agar Agar	3079 14/01/2015	Lease Order No. : 568-70, Lease Order Date : 07/01/2014	04/02/2014	04/02/2014 – 03/02/2024	Non Captive	Open cast	Operational	A	N 23°42'21.54" E 76°01'55.99"
													B	N 23°42'23.59" E 76°02'04.35"
													C	N 23°42'16.15" E 76°02'04.39"
													D	N 23°42'15.98" E 76°01'55.84"
48	Tirupati Infrastructure	Gitti	2476/3, 2476/4 Min 2	2.00	Dharola Agar	456 14/07/2017	Lease Order No. : 163, Lease Order Date : 28/03/2017	11/05/2017	07/04/2017 – 06/04/2027	Non Captive	Open cast	Operational	A	N 23°52'01 2" E 76°15'02.6"
													B	N 23°52'00 2" E 76°15'06 5"
													C	N 23°52'06 8" E 76°15'07 7"
													D	N 23°52'07.8" E 76°15'04 3"
49	Tripti-Shri Jitesh KumarMittal	Gitti	336 Min 52	2.00	Tanodiya Agar	6973 30/10/2015	Lease Order No. : 617, Lease Order Date : 15/12/2014	11/03/2015	11/03/2015 – 10/03/2025	Non Captive	Open cast	Operational	A	N 23°36'14.01" E 75°57'16.06"
													B	N 23°36'12.06" E 75°57'21.07"
													C	N 23°36'07.81" E 75°57'21.44"
													D	N 23°36'08.05" E 75°57'15.61"
50	Vishnu Prasad Mittal-Shri Radha Krishana Mittal	Gitti	679/2	2.00	Phentti Nalkheda	187 30/05/2016	Lease Order No. : 370, Lease Order Date : 22/09/2015	02/01/2016	02/01/2016 – 01/01/2026	Non Captive	Open cast	Operational	A	N 23°51'4.13" E 76°15'15.0"
													B	N 23°51'3.70" E 76°15'17.97"
													C	N 23°50'58.47" E 76°15'16.36"
													D	N 23°50'59 56" E 76°15'10.44"
51	Vishnu Prasad Mittal-Shri Radha Krishana Mittal	Gitti	680/1/2	2.00	Phentti Nalkheda	455 14/07/2017	Lease Order No. : 130, Lease Order Date : 10/03/2017	18/07/2017	22/03/2017 - 21/03/2027	Non Captive	Open cast	Operational	A	N 23°50'57.500" E 76°15'9.100"
													B	N 23°50'56.800" E 76°15'16.300"
													C	N 23°50'52.300" E 76°15'14.200"
													D	N 23°50'53.800" E 76°15'9.100"
52	Arvind Sharma S/ORamnarayan Sharma	Gitti	839	1.00	Dongargovan Susner	8676 19/12/2021	Lease Order No. : 836, Lease Order Date : 06/08/2021	07/01/2022	24/08/2021 - 23/08/2031	Non Captive	Open cast	Non-Operational	A	N 24°14'15.801" E 76°09'8.277"
													B	N 24°14'15.835" E 76°09'11.233"
													C	N 24°14'11.895" E 76°09'11.093"
													D	N 24°14'11.891" E 76°09'8.170"

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53	Kalpana Savla W/OJitendra Savla	Gitti	2718	1.40	Susner Susner	No	Lease Order No. : 165, Lease Order Date : 21/06/2019	No	03/02/2021 – 02/02/2031	Non Captive	Open cast	Non-Operational	A	N 23°55'30.50" E 76°05'37.81"
													B	N 23°55'30.59" E 76°05'40.25"
													C	N 23°55'29.44" E 76°05'44.09"
													D	N 23°55'26.00" E 76°05'44.16"
54	Kanhaiya Lal Parmar S/OBheru Lal Parmar	Gitti	142/1	1.77	Arniya Agar	No	Lease Order No. : 346, Lease Order Date : 09/03/2021	NO	22/03/2021 – 21/03/2031	Non Captive	Open cast	Non-Operational	A	N 23°40'36.412" E 76°7'30.387"
													B	N 23°40'33.787" E 76°7'30.201"
													C	N 23°40'32.368" E 76°7'29.098"
													D	N 23°40'32.792" E 76°7'24.991"
55	Mohit Maheshwari S/O Om Prakash Maheshwari	Gitti	478	4.00	Jamli Barod	No	Lease Order No. : 834, Lease Order Date : 06/08/2021	No	03/09/2021 – 02/09/2031	Non Captive	Open cast	Non-Operational	A	N 23°44'53.826" E 75°56'36.823"
													B	N 23°44'54.833" E 75°56'41.720"
													C	N 23°44'45.861" E 75°56'43.808"
													D	N 23°44'49.360" E 75°56'37.862"
56	Prahlad Singh Chouhan	Gitti	235	2.00	Tanodiya Agar	8499 09/05/2021	Lease Order No. : 163, Lease Order Date : 21/06/2019	23/03/2022	02/02/2021 - 01/02/2031	Non Captive	Open cast	Operational	A	N 23°36'27.30" E 75°56'45.92"
													B	N 23°36'24.51" E 75°56'51.97"
													C	N 23°36'31.69" E 75°56'50.30"
													D	N 23°36'30.20" E 75°56'47.28"
57	Shyam Singh S/OBhagwan Singh	Gitti	635	3.45	Bargdi Barod	2219 04/10/2021	Lease Order No. : 729, Lease Order Date : 08/07/2021	No	03/08/2021 - 02/08/2031	Non Captive	Open cast	Non-Operational	A	N 23°44'55.065" E 75°41'22.144"
													B	N 23°44'59.200" E 75°41'28.467"
													C	N 23°44'54.190" E 75°41'32.530"
													D	N 23°44'52.198" E 75°41'22.801"
58	Amber Verma S/O Chandra Prakash Verma	Gitti	304, 428	2.00	Rajakhedi Agar	No	Lease Order No. : 04, Lease Order Date : 03/04/2018	No	07/03/2019 - 06/03/2029	Non Captive	Open cast	Non-Operational	A	N 23°40'25.41" E 76°07'18.02"
													B	N 23°40'25.42" E 76°07'22.15"
													C	N 23°40'23.12" E 76°07'22.05"
													D	N 23°40'21.83" E 76°07'17.97"

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59	M/S Jay Ambe Construction	Gitti	304	2.00	Rajakhedi Agar	No	Lease Order No. : 02, Lease Order Date : 03/04/2018	No	07/03/2019 - 06/03/2029	Non Captive	Open cast	Non-Operational	A	N 23°40'28.02" E 76°07'22.65"
													B	N 23°40'27.79" E 76°07'26.46"
													C	N 23°40'23.07" E 76°07'26.18"
													D	N 23°40'23.12" E 76°07'22.45"
60	Visvjeet Singh-Shri AjaySingh Tomar	Gitti	2687	2.00	Susner Susner	4615 12/08/2015	Lease Order No. : 619, Lease Order Date : 15/12/2014	No	11/03/2015 - 10/03/2025	Non Captive	Open cast	Non-Operational	A	N 23°55'16.035" E 76°5'27.743"
													B	N 23°55'21.786" E 76°5'22.689"
													C	N 23°55'21.680" E 76°5'25.470"
													D	N 23°55'18.633" E 76°5'27.808"
61	Rajesh Deshmukh S/O Laxman Rao Deshmukh	Murrum	2129/ Min 1	1.70	Susner Susner	EC21B001MP1 21727 19/12/2021	Lease Order No. : 343, Lease Order Date : 09/03/2021	No	26/03/2021 - 25/03/2031	Non Captive	Open cast	Non-Operational	A	N 23°55'54.60" E 76°05'39.46"
													B	N 23°55'49.22" E 76°05'43.17"
													C	N 23°55'49.22" E 76°05'37.40"
													D	N 23°55'55.22" E 76°05'36.81"
62	Vijaypal singh Rajput S/O Chandrpal singh	Gitti	952/ Min 27	2.90	Kasba Barod Barod	EC21B001MP1 72771 19/12/2021	Lease Order No. : 1772, Lease Order Date : 07/02/2022	No	04/04/2022 - 03/04/2032	Non Captive	Open cast	Non-Operational	A	N 23°47'22.355" E 75°50'25.466"
													B	N 23°47'22.108" E 75°50'31.956"
													C	N 23°47'17.798" E 75°50'31.650"
													D	N 23°47'18.211" E 75°50'22.622"
31 Minor Minerals List														
63	M/s Arpan Enterprises	Laterite	2214/3	24.093	Kasba Agar Agar	No	Lease Order No. : 3-3/2018/12/1, Lease Order Date : 20/08/2019	No	11/10/2019-10/10/2049	Non Captive	Open cast	Non-Operational	A	N 23°41'37.1" E 76°00'57.5"
													B	N 23°41'37.4" E 76°01'04.0"
													C	N 23°41'10.5" E 76°01'10.7"
													D	N 23°41'09.1" E 76°00'59.0"

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Sl No.	Name of the Lessee	Name of the Mineral	KhasraNumber	Area inHa.	Village/Tehsil	Letter of Intent Grant Order No. & Date	Captive/Non Captive	Validity of LoI	Co-ordinates	
1	Balu Singh-Shri GulabSingh	Gitti	995	2.00	Jamli Barod	पत्र क्रमांक 651 दिनांक 24.06.2021 से स्वीकृत	Non Captive	23.12.2021	A	N 23°44'30.029" E 75°55'46.801"
									B	N 23°44'30.159" E 75°55'50.330"
									C	N 23°44'23.662" E 75°55'50.612"
									D	N 23°44'23.532" E 75°55'46.942"
2	R K Infra	Gitti	2479/4/1, 2479/4/2, 2479/4/3, 2479/3	2.00	Dharola Nalkheda	सैद्धांतिक सहमति पत्र क्रमांक 1110 दिनांक 12.10.2021	Non Captive	11.04.2022	A	N 23°52'8.235" E 76°15'8.366"
									B	N 23°52'8.801" E 76°15'14.762"
									C	N 23°52'2.944" E 76°15'14.064"
									D	N 23°52'6.258" E 76°15'8.208"
3	Jagdish Patel S/O Devilal Patel	Gitti, M-Sand	3252	1.00	Semalkhedi Nalkheda	सैद्धांतिक सहमति पत्र क्रमांक 1410 दिनांक 23.02.2022	Non Captive	22.08.2022	A	N 23°51'46.448" E 76°7'3.819"
									B	N 23°51'46.329" E 76°7'6.644"
									C	N 23°51'42.269" E 76°7'6.442"
									D	N 23°51'42.389" E 76°7'3.616"
4	Samta Gupta W/O Manish Gupta	Gitti, M-Sand	1326/4 Min 2	2.00	Soyatkala Susner	सैद्धांतिक सहमति पत्र क्रमांक 1488 दिनांक 14.03.2022	Non Captive	13.09.2022	A	N 24°10'32.706" E 76°7'54.420"
									B	N 24°10'35.027" E 76°8'1.268"
									C	N 24°10'30.734" E 76°8'2.996"
									D	N 24°10'28.413" E 76°7'56.149"
5	Ayush Jain S/O Ashok Kumar Jain	Gitti, M-Sand	92	3.00	Badgon Agar	सैद्धांतिक सहमति पत्र क्रमांक 1490 दिनांक 14.03.2022	Non Captive	13.09.2022	A	N 23°38'8.196" E 75°59'9.583"
									B	N 23°38'8.096" E 75°59'14.780"
									C	N 23°37'59.188" E 75°59'11.590"
									D	N 23°37'59.251" E 75°59'9.381"
6	Harinarayan Yadav S/O Pura lal Yadav	Gitti	11	2.00	Dehridev Nalkheda	सैद्धांतिक सहमति पत्र क्रमांक 5287-89/खनिज/उ.प./न.क्र.1/2022 भोपाल दिनांक 20.04.2022	Non Captive	19.10.2022	A	N 23°48'3.040" E 76°7'40.824"
									B	N 23°48'2.988" E 76°7'47.891"
									C	N 23°47'59.737" E 76°7'47.863"
									D	N 23°47'59.789" E 76°7'40.796"

सहायक संचालक भूमारी अधिकारी खनिज जिला आगर-मालवा

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4. Details of Royalty and Revenue received in last four years for Minor Mineral (other than Sand) leases (2018-2019, 2019-2020, 2020-2021 and 2021-22):

Table 4 Revenue received in last three years for Minor Mineral (Stone/Gitti) Mine

Year	Revenue (In Rs.)	
	Gitti	Murrum
2018-19	1,54,67,028	-
2019-20	2,54,03,504	-
2020-21	2,23,85,007	-
2021-22	3,59,37,888	-

5. Details of Minor Mineral (other than Sand) Production in last four years (2018-19, 2019-20, 2020-21 and 2021-22):

Table 5 Minor Mineral (Stone/Gitti) Production in last 3 years

Year	Production(In Cu.Mt)	
	Gitti	Murrum
2018-19	258157.790	-
2019-20	193949.15	-
2020-21	174155.1	-
2021-22	249309.030	32180.00

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6. General Profile of the District

1.Geographical Position	Agar Malwa District is a district of Madhya Pradesh state in central India. The city of Agar is the administrative headquarters of the district.
2. Area and Population	I. Geographical Area (Sq.Km) Total Area (Sq.Km): 2,785 Km^2 II. CENSUS 2011 (When merged with Shajapur) I.Population a. Total Population:15,12,681 b. Male Population: 7,80,520 c. Female Population: 7,32,161 II. Literates a. Total Literates: 8,94,612 b. Male: 5,43,509 c. Female: 3,51,103 III. Main Workers (Census 2011) a. Total Workers: 5,08,833 b. Male Workers: 3,63,707 c. Female Workers: 1,45,126 d. Cultivators: 2,87,924 e. Agricultural Labourers: 3,03,157 f. Other Workers: 1,17,981
	V.Languages Spoken in the District The main language spoken in the district is Hindi, followed by Malwi.
3. Temperature	Mean- Maximum temperature: 42°C Mean- Minimum temperature: 13°C
4. Rainfall (In mm)	Normal – South West Monsoon: Approx. 700mm Annual Rainfall: About 900mm
5.Agriculture (including Shajapur)	a. Total Cultivable Area (Ha):455 b. Net Area Sown (Ha): 419 c. Area Sown more than once (Ha): 302
6.**Rivers, etc.**	Kalisindh, Lakhundar, Chhoti Kalisindh, Kanthal and Aay

7. Revenue Administrative Divisions	Revenue Divisions: a. Revenue Tehsils: 4 b. Revenue blocks: 4
8. Local Bodies	a. Municipalities: 4 b. Janpad Panchayats:4 c. Gram Panchayats: 227

7. Census Data of 2011

Table 6 Census Data for year 2011 (Included with Shajapur District)

Description	**2011**
Actual Population	15,12,681
Male	7,80,520
Female	7,32,161
Population Growth	17.20%
Area Sq. km.	6,195
Density/km^2	244
Proportion to population of Madhya Pradesh	2.08%
Sex Ratio (Per 1000)	938
Child Sex Ratio (0-6 Age)	920
Average Literacy	69.09
Male Literacy	81.47

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Female Literacy	55.93
Total Child Population (0-6 Age)	2,17,759
Male Population (0-6 Age)	1,13,404
Female Population (0-6 Age)	1,04,355
Literates	8,94,612
Male Literates	5,43,509
Female Literates	3,51,103
Child Proportion (0-6 Age)	14.40%
Boys Proportion (0-6 Age)	14.53%
Girls Proportion (0-6 Age)	14.25%

8. Land utilization Pattern in the District: Forest,Agricultural, Mining, etc.

Land use/land cover (LULC) changes are main issues of universal environment change. The Satellite remote sensing data with their monotonous nature have proved to be rather useful in mapping land use/land cover decorations and changes with time. Quantification of such changes is conceivable through GIS techniques even if the subsequent spatial datasets are of dissimilar scales or resolutions. Such studies have helped in considerate the dynamics of human happenings in space and time. Land use refers to man's activities.

Table 7 Land Use Pattern of the Study Area)

Sr. No.	Class	Area in Ha.	Percentage of coverage
1	Agricultural Plantation	8,707	3.21 %
2	Barren rocky	493	0.18 %
3	Agricultural Land	1,94,845	71.84 %
4	Deciduous (Dry/Moist/Thorn)	767	0.28 %
5	Agricultural Land	961	0.35 %
6	Gullied/Ravenous land	142	0.05 %
7	Industrial	2,383	0.88 %
8	Lake/Ponds	1,209	0.45 %
9	Mining / Quarry	360	0.13 %
10	Reservoir/Tank	3,598	1.33 %

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11	River	2,667	0.98 %
12	Rural	3,590	1.32 %
13	Scrub Forest	3,222	1.19 %
14	Scrub land	48,026	17.71 %
15	Tree Clad Area	2	0.00 %
16	Urban	254	0.09 %
	Total	2,71,226	100.00 %

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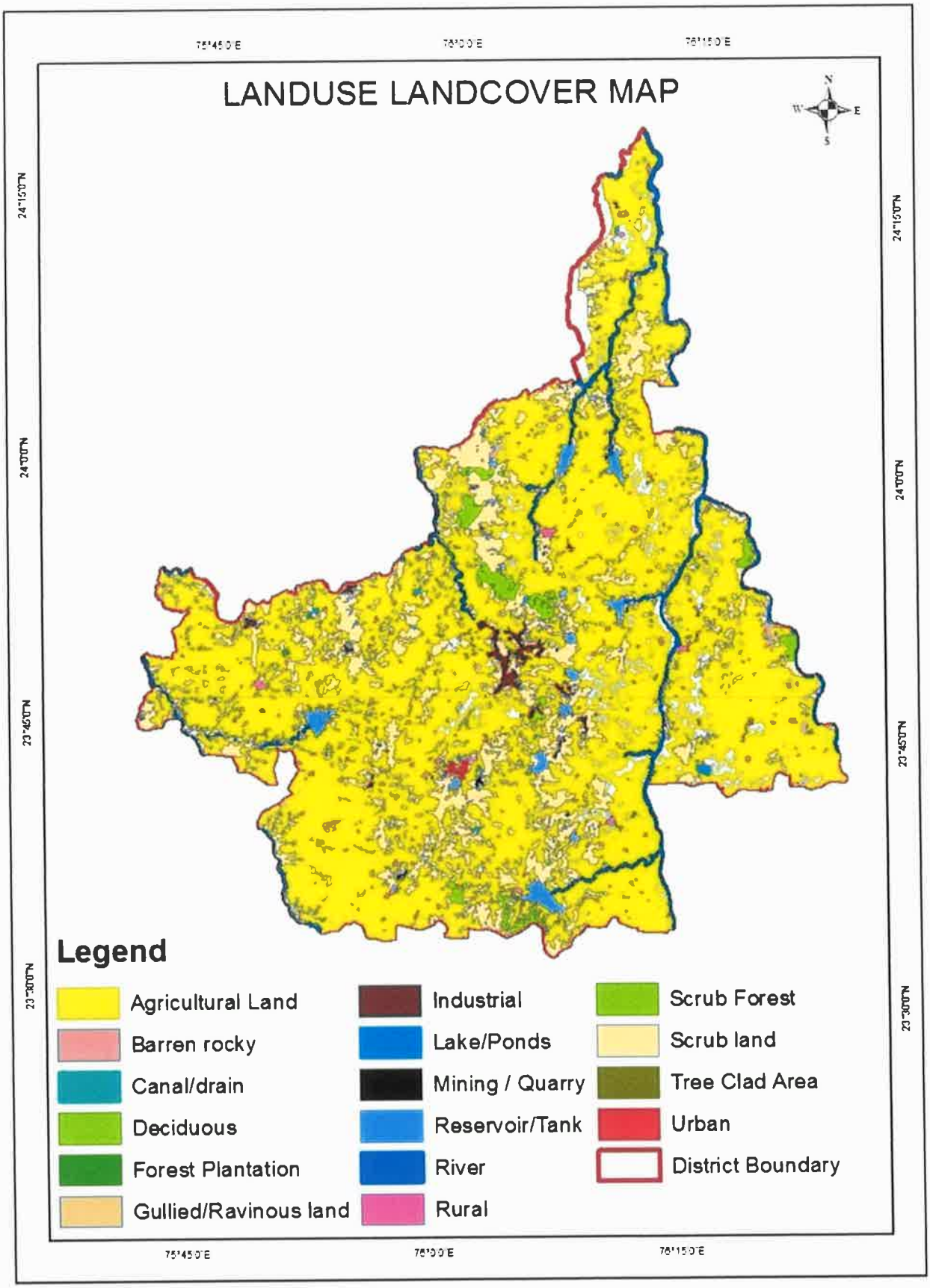

Figure 4 Land Use and Land Cover Map of the District

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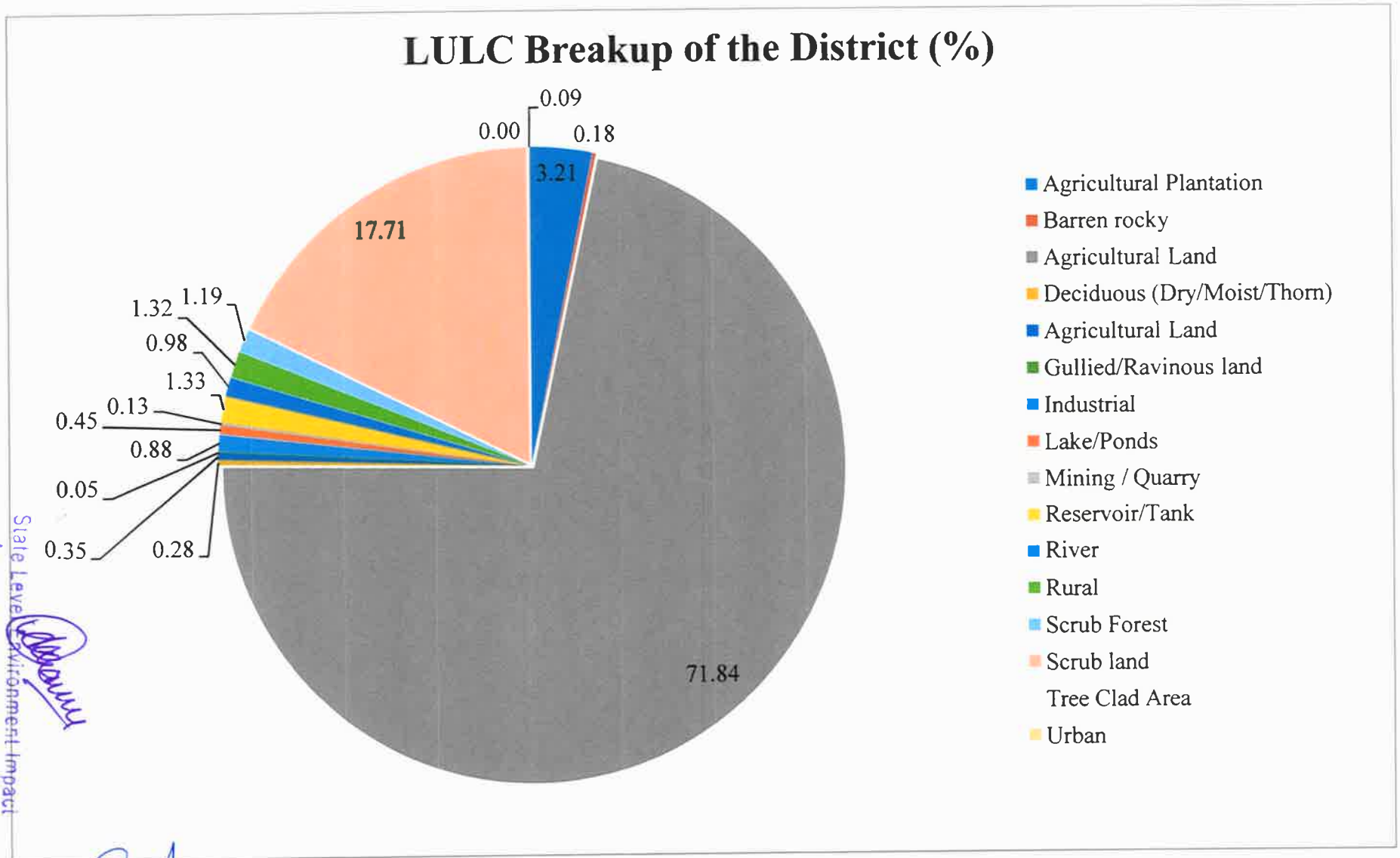

Figure 5 Land Use and Land Cover Breakup of the District

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9. Physiography of the District

The project road lies between 75° 6' E to 76° 4' E and 23° 38' N to 23° 38' N. The topography of the project road section is mixed type. A section of the project road is passing through the Shahjapur District. The entire district is a part of Deccan Trap of Cretaceous Eocene age. The alluvium of recent period is, however, found along the river Parbati in a narrow strip. Physio-cultural diversities in the district have led its sub division into the following sub-micro regions:-

Agar plateau

Shajapur Forested Upland

Kali Sindh Basin

Shajapur Upland

Agar plateau covers the most part of the western district. The Agar- Baroda are has slope from south to north. The area lies at 500 to 545 msl. The area has Chhoti Kalisindh River which flows in western parts of the district and further enters in Rajasthan. Central Agar Plateau and western area has Aau and Lakhundar River which slope from south to north. Kalisindh basin spreads from western and northern boundaries in western area of Malwa. Kalisindh River flows from South of North. The major part of the district is hilly and undulating and has rivers along with their tributaries.

10. Rainfall of the District and Climate Conditions

10.1 Details of Month wise Rainfall Data of Last 3 Year

Table 8 Details of Month wise Rainfall Data 2019-2021

S. No.	Name of Month	Year 2019 Month wise average Value of Rainfall (m.m.)	Year 2020 Month wise average Value of Rainfall (m.m.)	Year 2021 Month wise average Value of Rainfall (m.m.)
1.	January	00	00	00
2.	February	00	00	00
3.	March	00	00	00
4.	April	9.53	00	00
5.	May	00	00	39.66

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6.	June	75.93	241.33	85.43
7.	July	292.13	184.00	401.88
8.	August	633.03	424.4	345.90
9.	September	624.73	82.83	388.63
10.	October	52.13	2.60	72.13
11.	November	00	00	00
12.	December	00	14.33	1.75
	Total	1687.48	949.49	1335.38

(Source : Land record department district agar malwa)

10.2 Climatic Conditions

The climate of district is characterized by hot summer and general dryness except during the south west monsoon season. The year may be divided into four seasons. The cold season, December to February is followed by the hot season from March to about the middle of June. The period from the middle of June to September is the south west monsoon season. October and November form the post monsoon or transition period. January is a Coolest Month and May is the hottest month in the year. Average temperature 35°C from March to June and 12°C in December to February.

11. Geology and Mineral wealth of the District

The generalized succession, Litho logy and stratigraphy have been presented here. The physiographic features of the district consist of Malwa plateau and show lava related geomorphology which consist of waste flatlands, low mounds and hill clusters which slope towards north. The southern portion of the district shows elevated terrain which has planar top plateaus with elevated profiles. The central portion of the district has planar geomorphology along with undulating areas. The north- western portion of the district covered laterite hills. The elevation of the district is 510 amsl which reaches the height from south portion of Kalisindh and Kanthal respectively. The development of the grounds and hills show moderately developed geomorphology. The banks of Kalisindh River have

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development of semicircular erosion faces and undulating topography.The hills are circular, arched and conical in shape. The bed of Kalisindh River is 320 amsl. Flood plains and associated deposits along with levees have width of about 20 m, developed at meanders of the river. The flowing in the North, such as Kalisingh, Kanthal, Lakhundar etc. further join the Chambal River and give rise to Ganges drainage system. The drainage pattern is dendritic and has moderate drainage density.

The Lithology of the district mainly consists of rocks formations of Cretaceous and Eocene Period. Deccan Traps and the laterite deposits overlain are from Quarternary Age. The sequential lava flows cover the major part of the district. The deccan flows in the district has been classified on the basis of intermediate flows, heterogeneity of the terrain, formations, vascularity and brittle formations. The flows are characterized by dark grey color, fine to medium grained, hard and compact and low to medium porphyritic in nature. Generally, the lower flows have hard and compact basalt, followed by vesicular/ amygdaloidal and brittle rocks towards the surface. Mineralogical compositions show calcic plagioclase, clino-pyrocline, glass and iron oxide.

At 460 amsl in the western, central and north western part of the district, laterite deposits are found. It is characterized by red, yellowish-brown and violet tones, along with vesicles. In northern part of the district, alluvial deposits are found at the banks of Kali sindh and Lakhundar River. The alluvium is characterized by yellow-gray, silt laced, sand and pebble and gravel.

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जिला संसाधन मानचित्र : आगर मालवा, मध्य प्रदेश

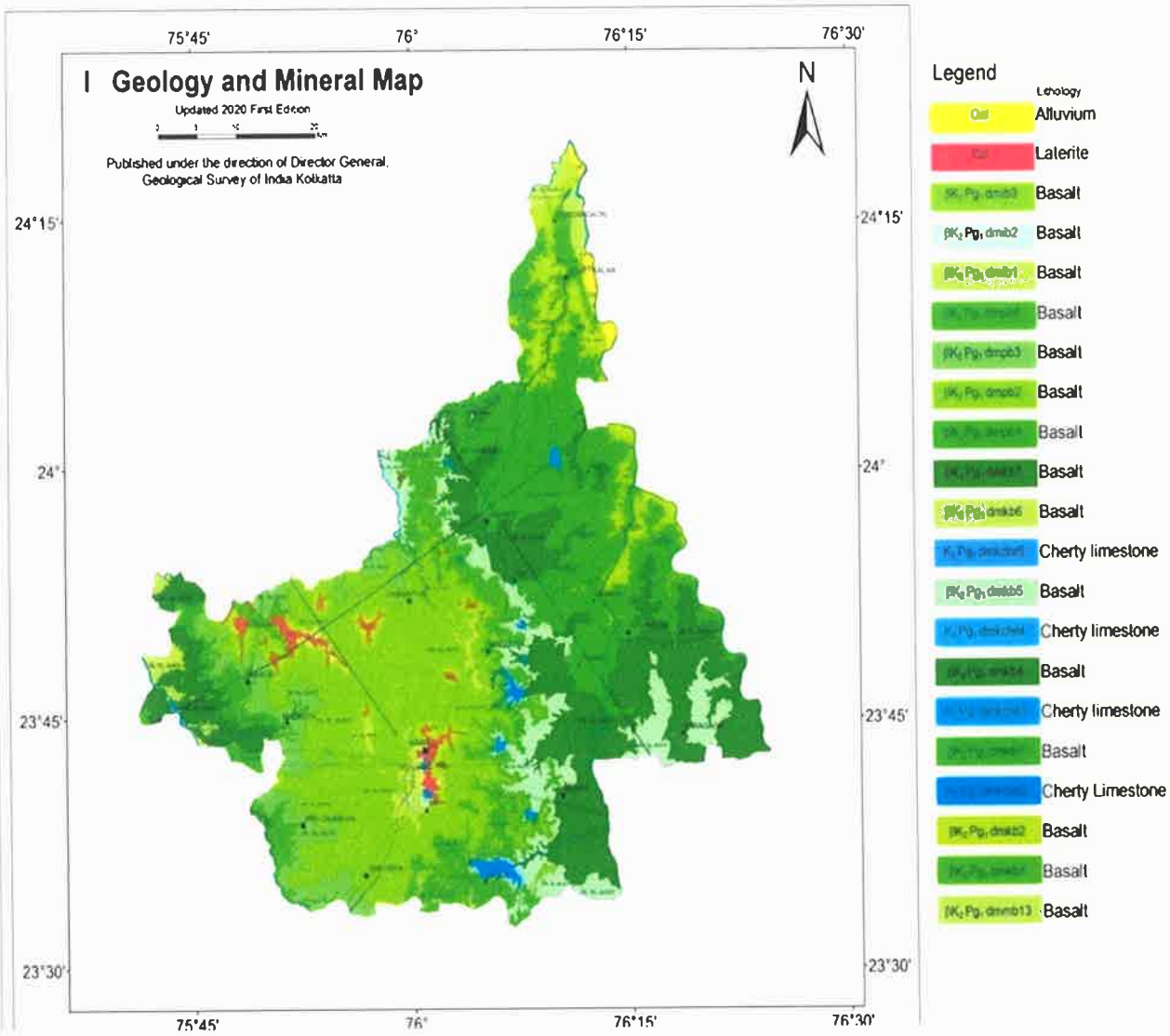

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Table 9 Geological Profile of the District

	Geological Age	Stratigraphic Status	Litho logy
Deccan Trap	Holocene	Alluvium	Alluvium
	Cenozoic	-	Literate
	Cretaceous To Palaeogene	Indore Formation	6Aa type basalt Flows
		Kankariya Pirukheri Formation	4 Aa and compound Pahoehoe type basalt flows
	Cretaceous To Palaeogene	Kalisindh Formation	5 Aa type basalt flows
	Inter trappings'		
	Cretaceous To Palaeogene	Mandleshwar formation	2Aa type basalt flows

Following Local litho logical Sequence is observed in the area-

Geological Age	Litho logy
Recent- Sub recent	Red soil/ Literate
Upper Cretaceous	Basalt

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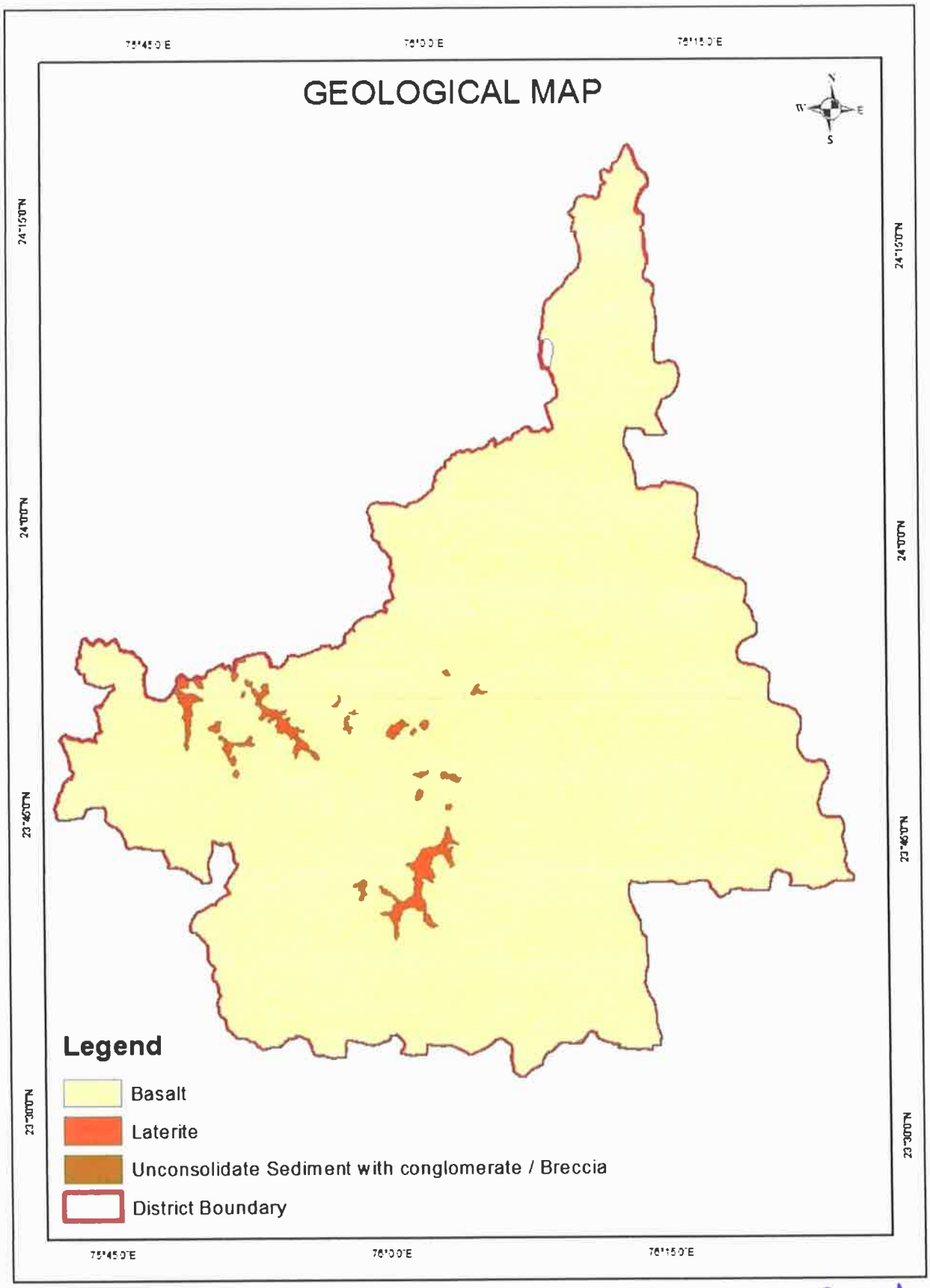

Figure 6 Geological Map of the District

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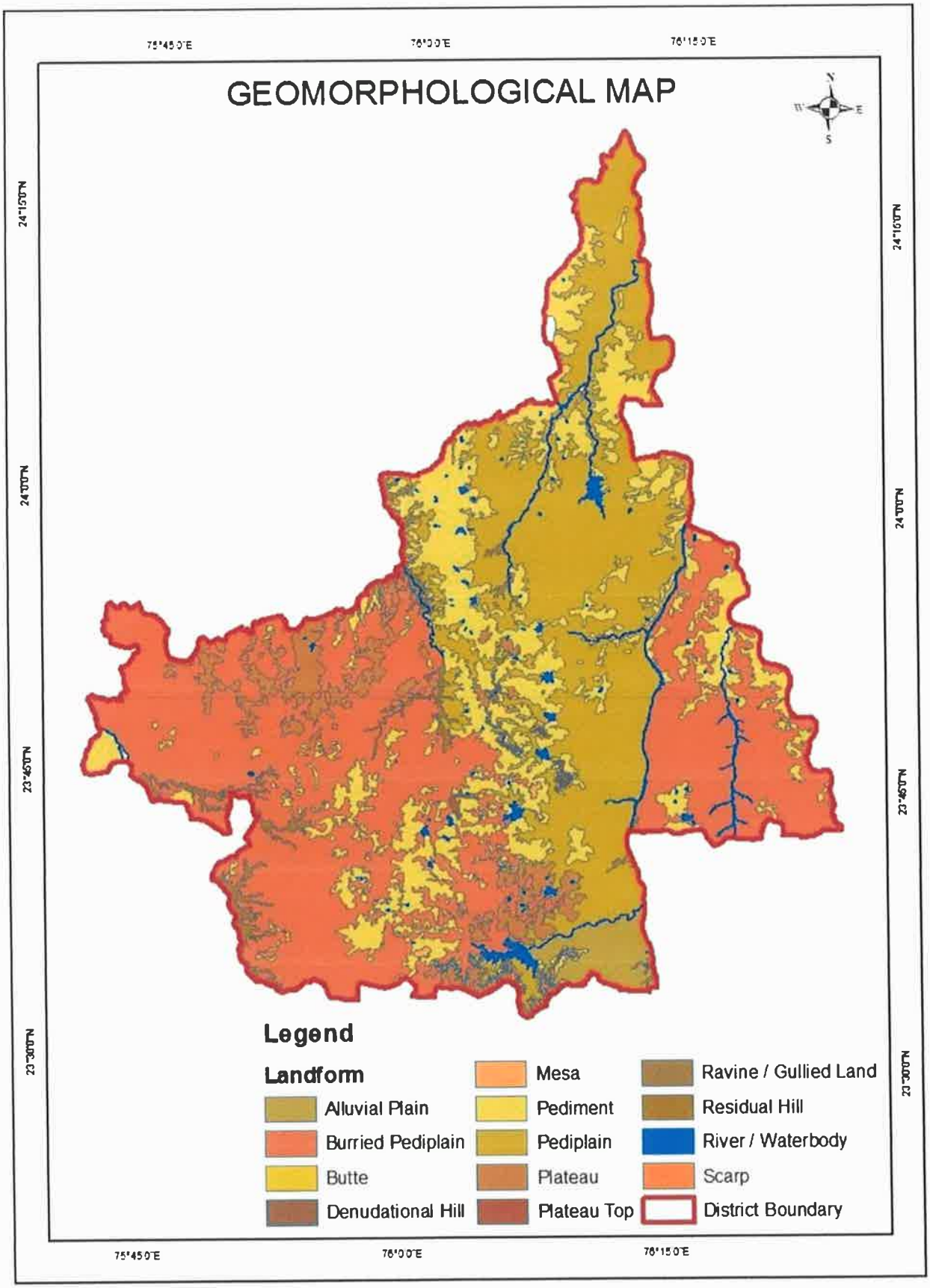

Figure 7 Geomorphologic Map of the District

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12. Drainage and Irrigation Pattern

Drainage Pattern

Kalisindh: The river originates from Dewas district reaches western part of Agar Malwa flowing through Rajgarh. Flowing along the boundary, towards north, it enters Rajasthan. It covers a stretch of about 70 km in the district.

Lakhundar: Flows from Shajapur district to southern part of Agar Malwa. It crosses Agar Nalkheda and Susner tehsils before merging into Kalisindh River. It covers a stretch of about 50 Km in the district.

Chhoti Kalisindh: The River flows in from Ujjain in western part of the district. It enters Rajasthan flowing from Agar and Barod tehsil. It covers a stretch of about 22 Km in the district.

Kanthal: The River originates from Susner tehsil of Agar Malwa and enters Rajasthan, flowing towards north. It covers a stretch of about 25 Km in the district.

Aav: the river originates from Agar tehsil of Agar Malwa district. The river crosses Agar, Barod and Susner before entering Rajasthan. It covers a stretch of about 40 Km in the district.

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 District for augmenting the water supply for agriculture. The various sources of irrigation in the district are canals, tanks, tube wells, ordinary wells, springs and channels.

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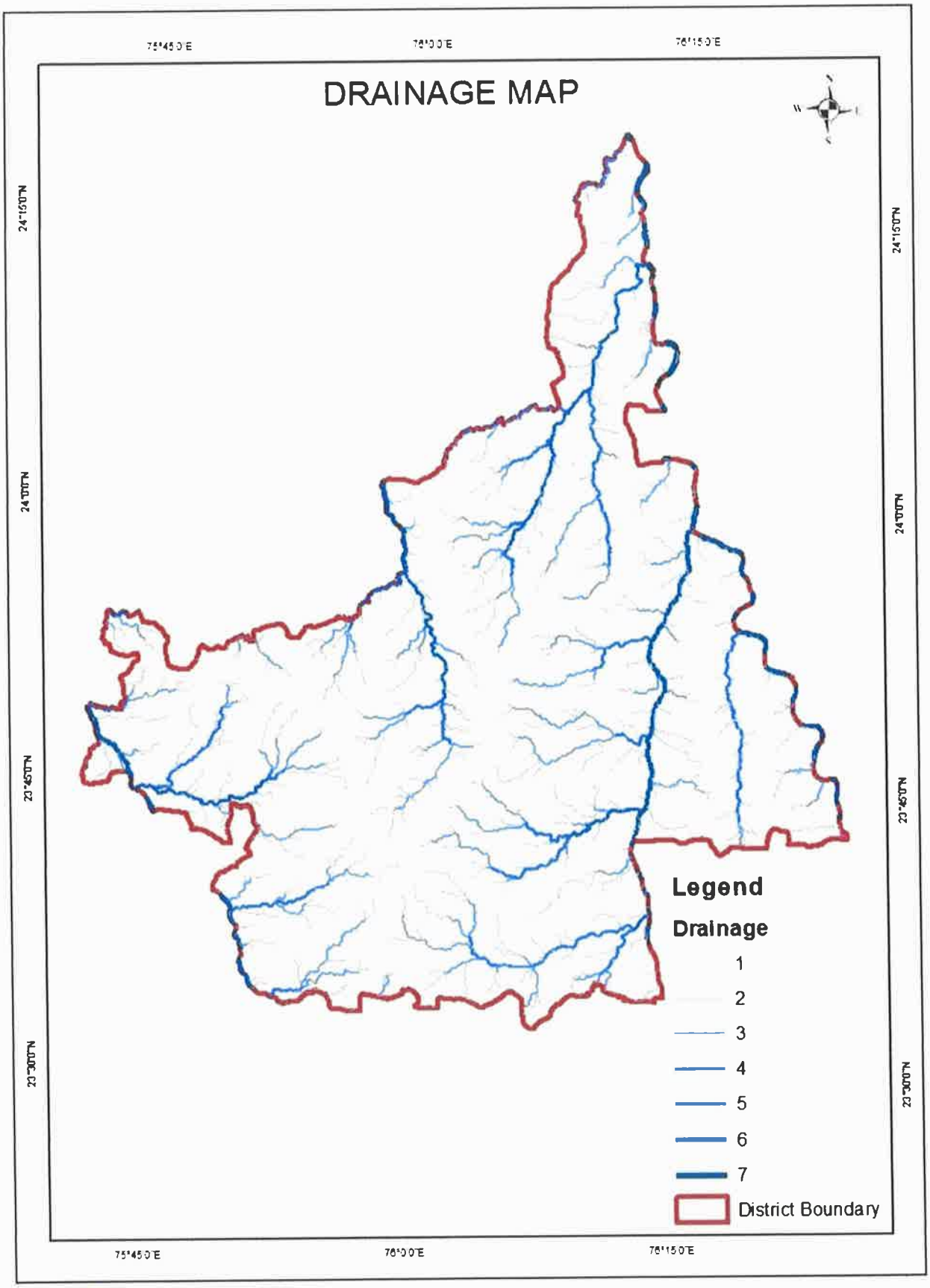

Figure 8 Drainage Map of the District

13. Surface Water and Ground water scenario of theDistrict

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.

Ground Water occurs in different lava flows having distinctive feature like significant primary porosity in the form of vesicles lava tubes formed due to emanations of gases in weathered lava flows along with fractures, variation vesicles and its vide spatial and temporal with minerals considerable reduced by filling up with minerals like geolites, calcite, and silica to form amygdale. Alternating sequence of pervious and compact horizon functions as a multi aquifer system. Shallow ground water occurs in the weathered vesicular, jointed fractured zones of basaltic flows generally under unconfined conditions at some places under semi confined to confined condition due to the presence of thickly silty clays overlying the jointed rocks in the cases of deeper aquifer. Shallow aquifer also noticed in alluvium occurs along Lakhunda and Kalisindh river courses. Laterite development on basalt is extensive in and around Agar town where the traps have undergone maximum degree of leaching.

Surface Water

Kalisindh originates from Dewas district reaches western part of Agar Malwa flowing through Rajgarh. Flowing along the boundary, towards north, it enters Rajasthan. It covers a stretch of about 70 km in the district. Lakhundar Flows from Shajapur district to southern part of Agar Malwa. It crosses Agar Nalkheda and Susner tehsils before merging into Kalisindh River. It covers a stretch of about 50 Km in the district.Chhoti Kalisindh flows in from Ujjainin western part of the district. It enters Rajasthan flowing from Agar and Barod tehsil. It covers a stretch of about 22 Km in the district.Kanthal originates from Susner tehsil of Agar Malwa and enters Rajasthan, flowing towards north. It covers a stretch of about 25 Km in the district.Aav River originates from Agar tehsil of Agar Malwa district. The river crosses Agar,Barod and Susner before entering Rajasthan. It covers a stretch of about 40 Km in the district.

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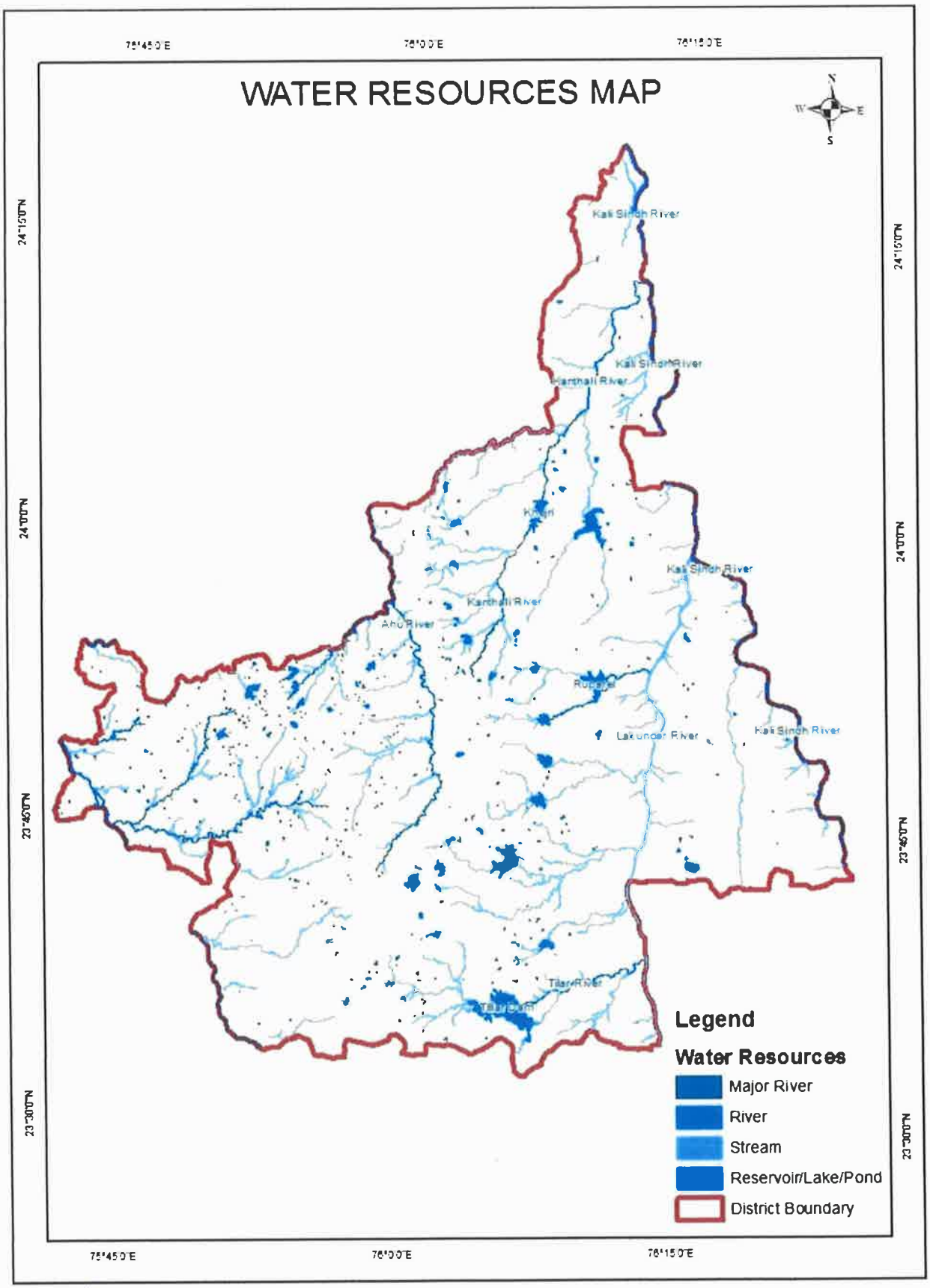

Figure 9 Water Resources Map of the District

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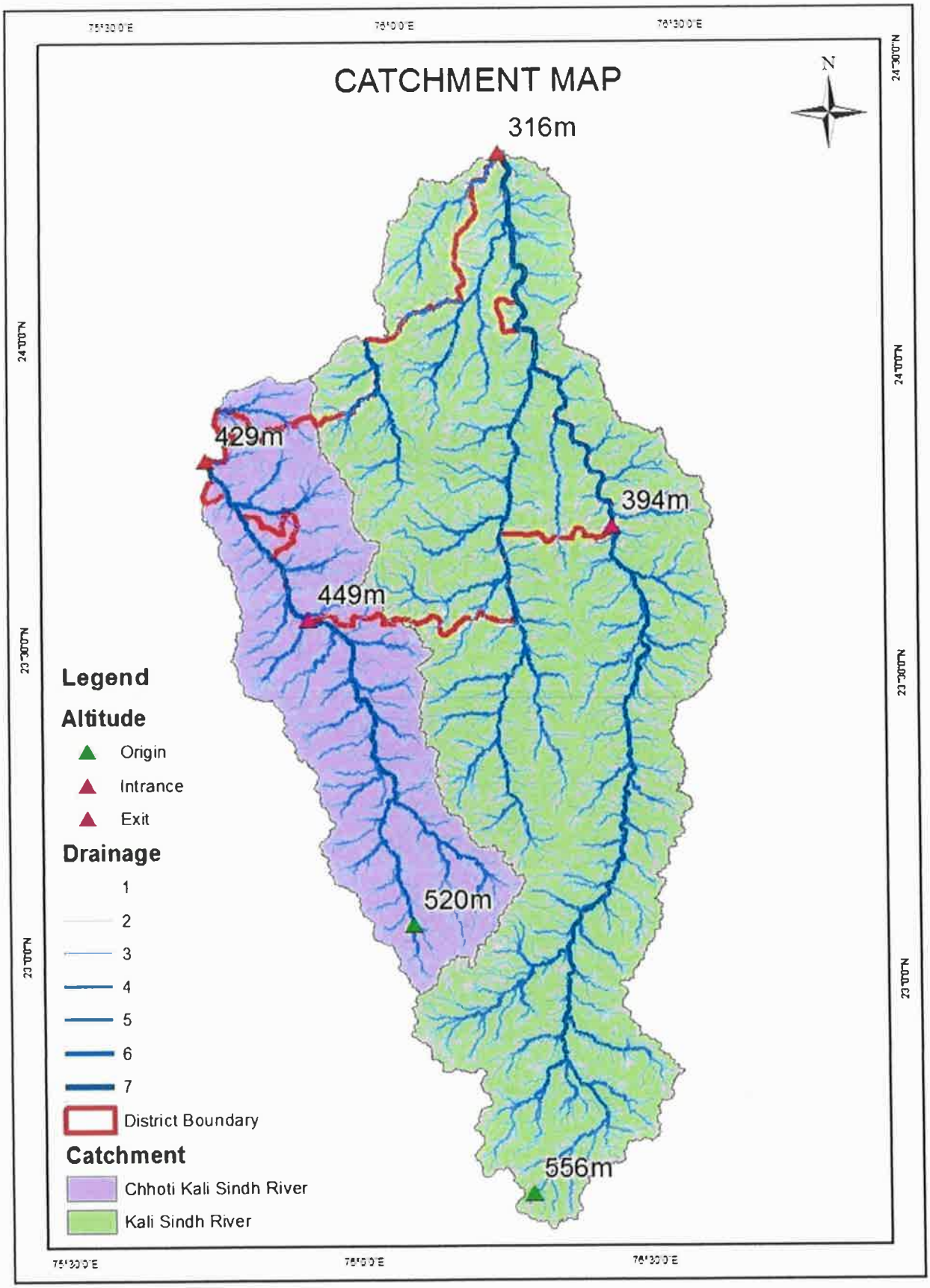

Figure 10 Catchment Map of District

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Table 10 Details of Catchment Area

Sr. No.	Properties	Chhoti Kalisindh River Basin	Kalisindh River Basin
1	Catchment Area up to Exit spot of Particular District	2,615 sq. km	7,804 sq. km
2	Catchment Area of Particular District	624 sq. km	2,130 sq. km
3	Length of the Catchment Area	102 km	190 km
4	Length of the Catchment Area of Particular District	34 km	70 km
5	Altitude at Origin of the River	520 m	556 m
6	Altitude at Entrance of the Particular District	449 m	394 m
7	Altitude at Exit of the Particular District	429 m	316 m

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14. Mineral Map of the district

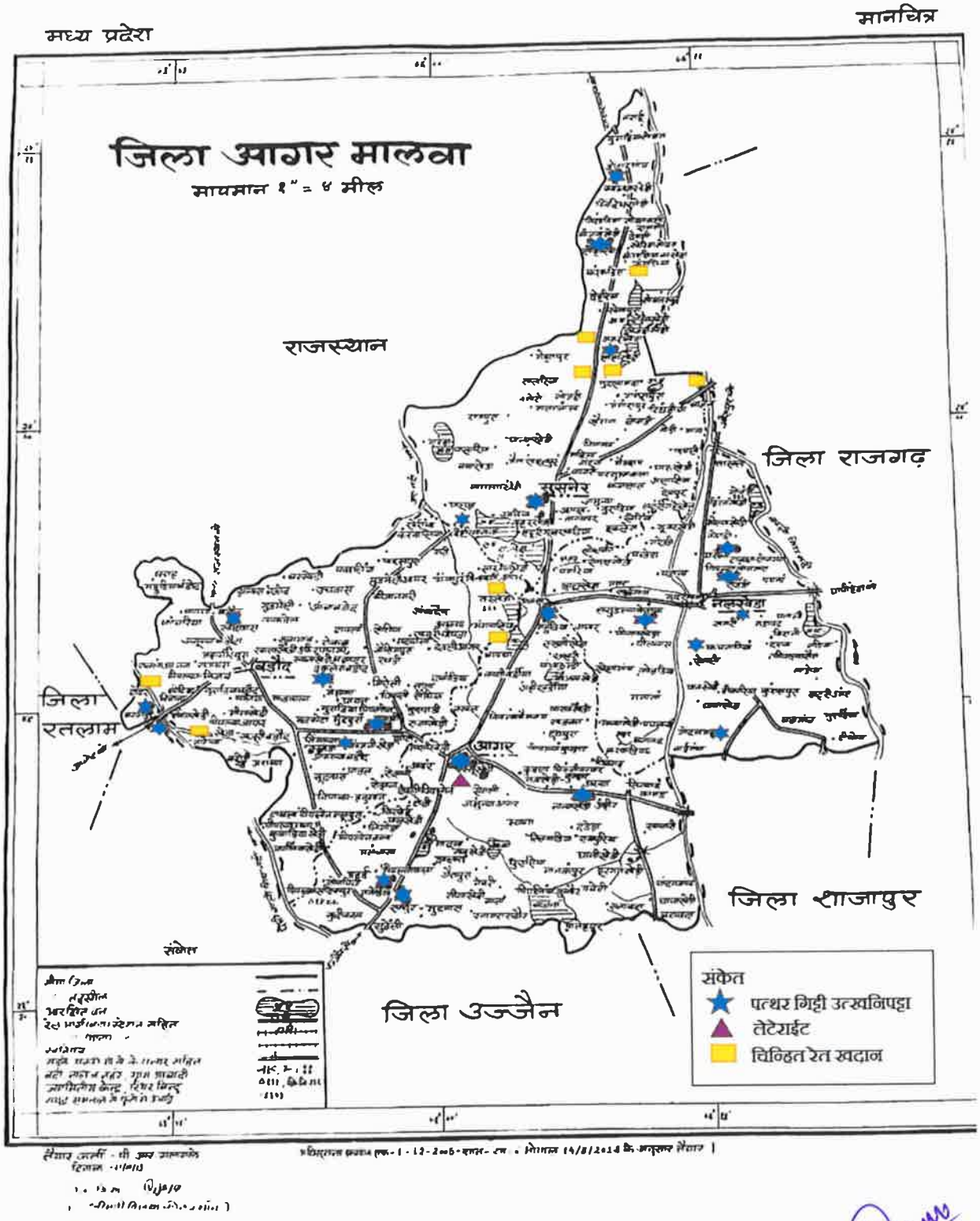

Figure 11 Mineral map of the District

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15. Total Minor Mineral Reserve available in the District

Table 11 Total minor mineral reserve available in the district

S. no.	Mineral Name	Total Reserve Mineral
1.	Gitti/ Stone	23643105.9 Cubic .Metre
2.	Sand	76000 Cubic .Metre
4.	Murrum	87536 Cubic .Metre
5.	Laterite	3985541 M Tone

16. Quality/Grade of Mineral available in the District

Agar Malwa District Mainly Comprises Minor Mineral Like Sand, Stone, Gitti, Murrum and Laterite. The Quality of mineral Sand is very low grade. Most of the river sand contains muddy soil which degrade the quality of the sand. The rock basalt is using for making gitti in district. Which is suitable as road metal and building material. Grade of Mineral Laterite is suitable for cement and steel plants.

17. Use of Mineral

Major and Minor Minerals are mainly use for construction purpose. Minor Minerals' comprise of gravel, building stones, soil, ordinary clay, ordinary sand, and murrum. Other sand used for prescribed purposes, and any other mineral which the Central Government may, by notification in the Official Gazette, declare to be a minor mineral.

Crushed stone (Gitti): Angular crushed stone is the key material for macadam road construction, which depends on the interlocking of the individual stones' angular faces for its strength. Also use as rip rap, as railroad track ballast, as composite material (with a binder)in

concrete, tarmac, and asphalt concrete.

Murrum: It is a mixture of minerals, organic matters, gravels, rock particles etc. Murrum is used in plinth filling, road pavements, backfilling in trenches, footing pits, etc. Given that it doesn't contain any organic matters and can be compacted easily forming hard surfaces, it is asoil suitable in the field of construction.

Soil: Ordinary earth soil used for filling the embankment, roads, railways and building. Soil which is excavated from mine is also used for different purpose of construction.

18. Demand and supply of the Mineral in Last three Year

Table 12 Demand and supply of the mineral in last three year

Minerals Name	Year wise Supply according to Demand			Remark
	2018-19	2019-20	2020-21	
Minor Mineral				
Stone/Gitti	203282.79	193949.15	174155.1	Production of mineral Stone/Gitti depends upon demand

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19. Minor Mineral Lease Marked on the District Map

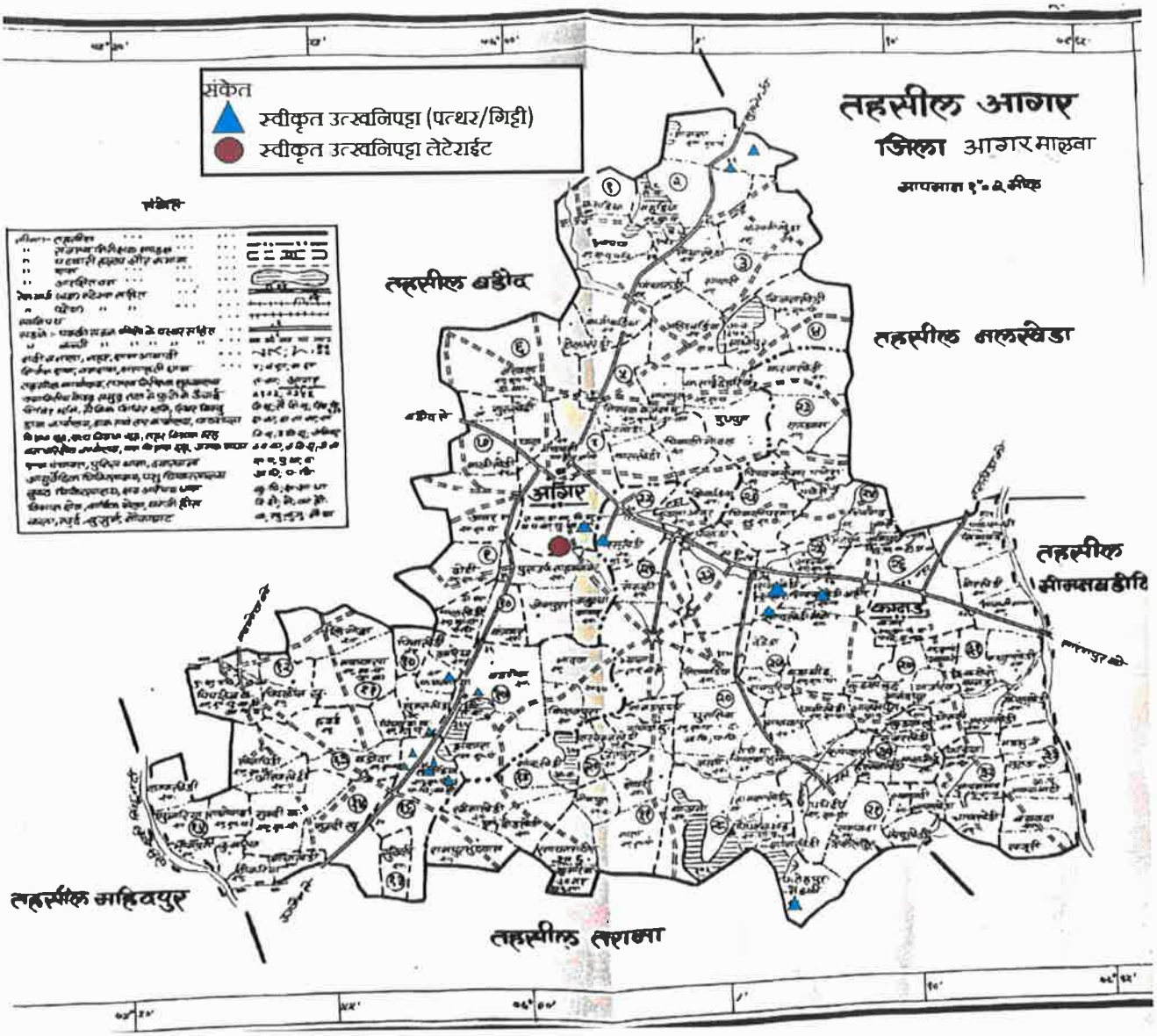

Figure 12 Mineral map of the Tehsil Agar

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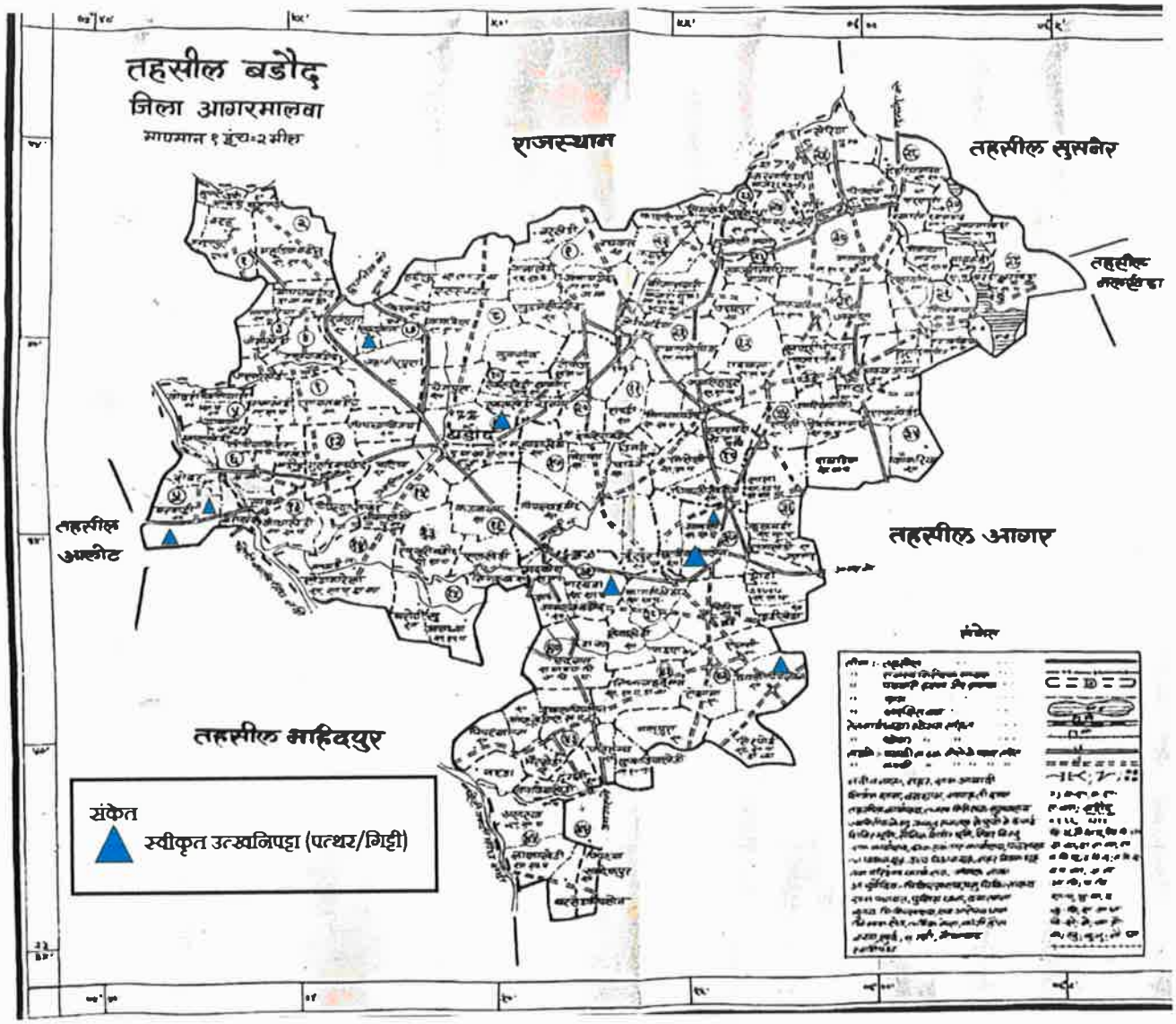

Figure 13 Mineral map of the Tehsil Barod

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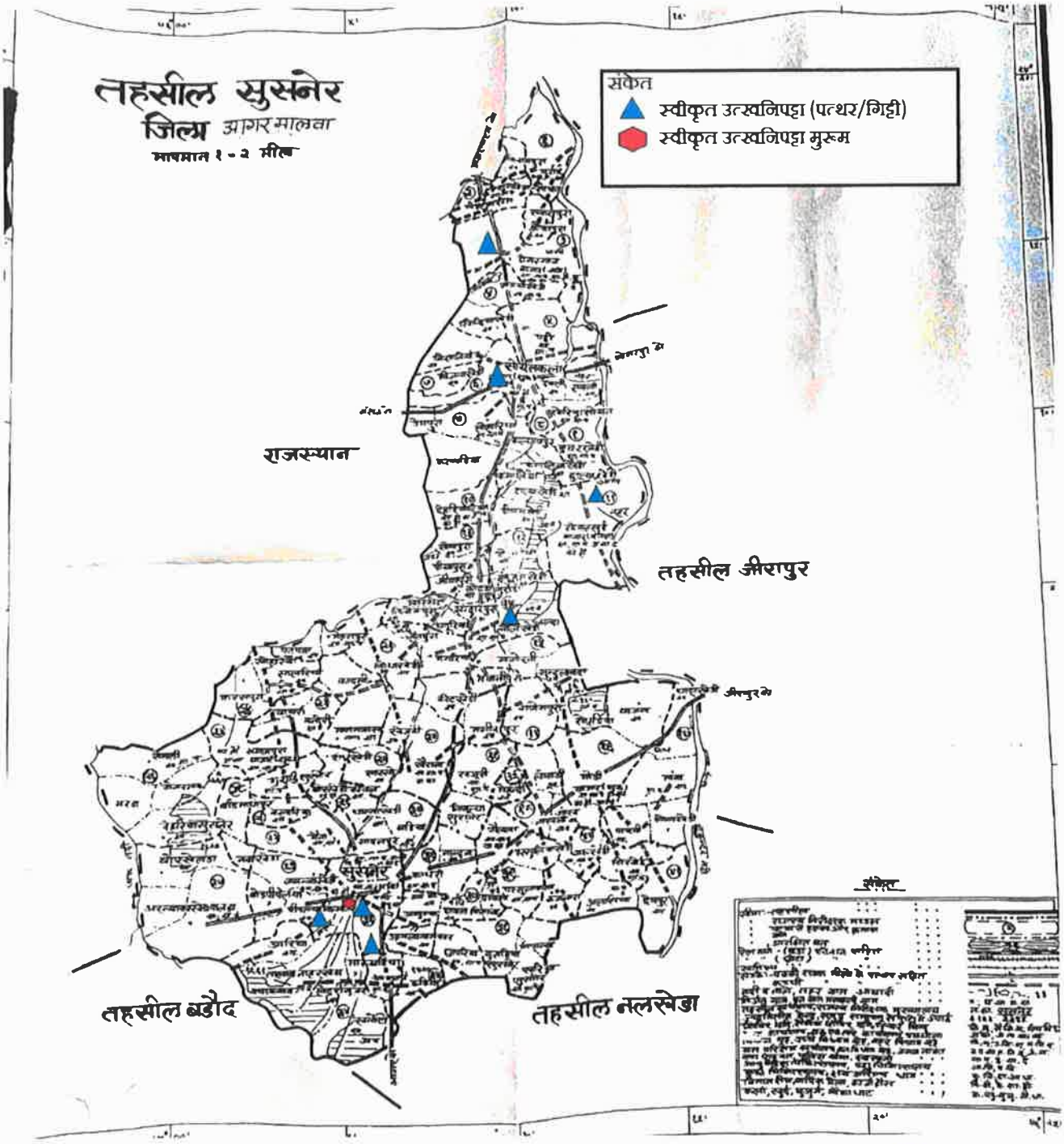

Figure 14 Mineral map of the Tehsil Susner

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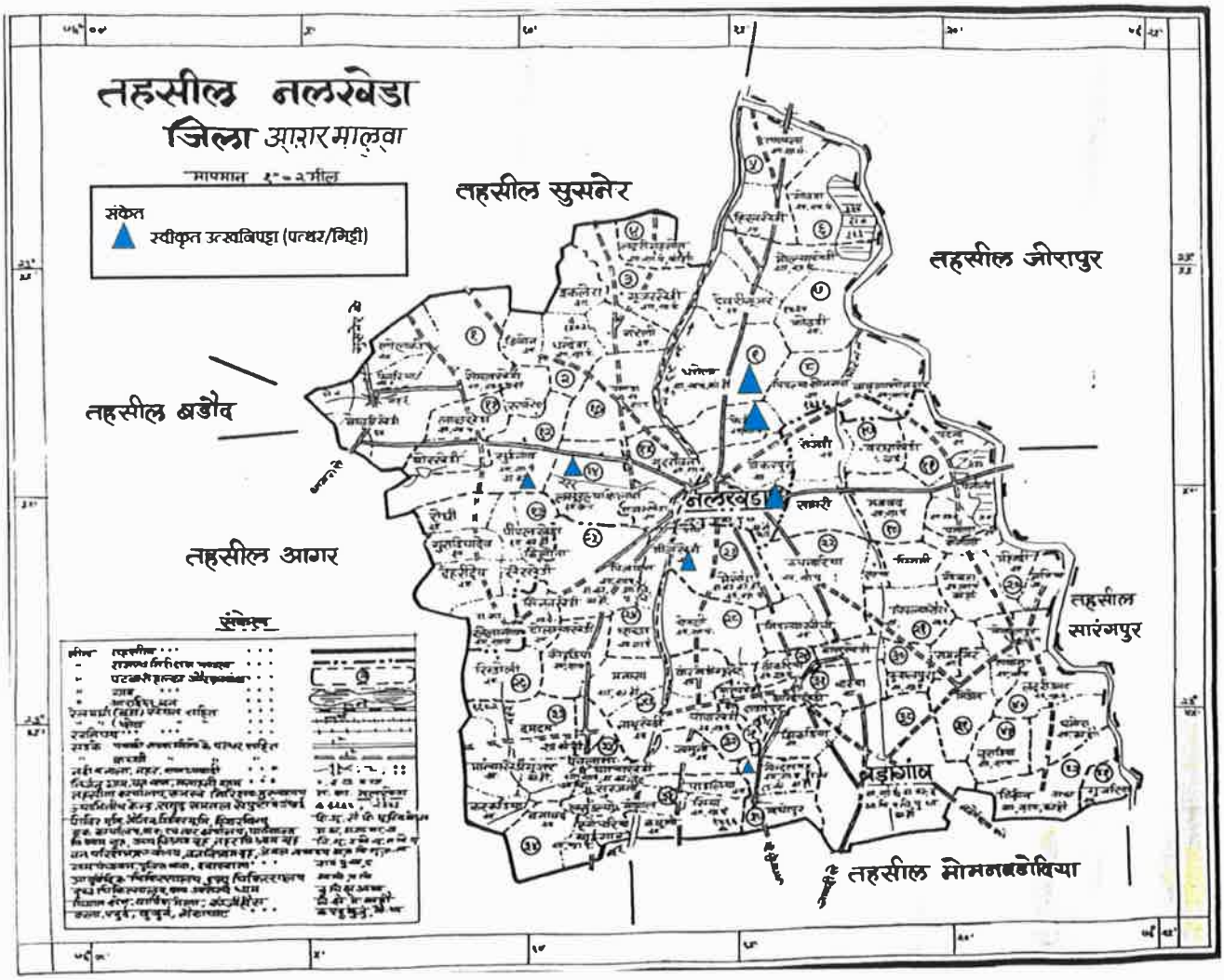

Figure 15 Mineral map of the Tehsil Nalkheda

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20. Details of the area of where there is cluster of mining lease viz no. of mining lease Location

The details of cluster of mines are given below.

Table 13

S. No.	Name of the Lessee	Name of the Mineral	Khasra Number	Area in Ha.	Village	Tehsil	Validity of the Lease	Cluster/Non Cluster
1	Arvind Sharma-Shri Ramnarayan Sharma	Gitti	885	2.00	Dongargovan	Susner	18/09/2018 - 17/09/2028	Non Cluster
2	Ashok Kumar Jain-Shri Hukum Chand Jain	Gitti	428	2.52	Parsukhedi	Agar	04/03/2015 - 03/03/2025	Cluster
3	Baboo Singh Rathor-Shri Bharu Singh Rathor	Gitti	2329/1	2.00	Kasba Agar	Agar	08/05/2018 - 07/05/2028	Cluster
4	Babulal Bijapari-Shri Munna Lal Bijapari	Gitti	283	2.00	Naniyakhedi	Agar	01/02/2015 - 31/01/2025	Non Cluster
5	Balu Singh-Shri Gulab Singh	Gitti	995	2.00	Jamli	Barod	28/08/2014 - 27/08/2024	Cluster
6	Bharat Singh Chouhan-Shri Pur Sing Chouhan	Gitti	70	1.00	Lalakhedi	Susner	01/01/2014 - 31/12/2023	Non Cluster

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7	Bharat Singh Chouhan-Shri Pur Sing Chouhan	Gitti	44	2.00	Lalakhedi	Susner	03/03/2014 - 02/03/2024	Non Cluster
8	Bhupendra Sharma-Shri Krishnavallabh Sharma	Gitti	1057	2.00	Jamli	Barod	16/07/2014 - 15/07/2024	Cluster
9	Bhupendra Singh-Shri Kailash Narayan	Gitti	144, 145	1.90	Arniya	Agar	12/01/2016 - 11/01/2026	Cluster
10	Chandrapal Singh Rajput-Shri Amar Singh Rajput	Gitti	952 Min 27	2.00	Barod	Barod	13/02/2014 - 12/02/2024	Non Cluster
11	Dilip Singh Sisodiya-Shri Moti Singh Sisodiya	Gitti	2	2.00	Akhli	Susner	28/10/2017 - 27/10/2027	Non Cluster
12	Dilip Singh-Shri Bhadur Singh Tawar	Gitti	1057	2.00	Jamli	Barod	22/07/2014 - 21/07/2024	Cluster
13	Gabbar Singh Gurjar-Shri Ramesh Chand Ji	Gitti	454	1.00	Sumrakhedi	Agar	18/04/2012 - 17/04/2022	Cluster
14	Giriraj Bhalotha-Shri Vishnu Prasad Bhalotha	Gitti	1480	2.00	Nalkheda	Nalkheda	11/03/2015 - 10/03/2025	Non Cluster
15	Gmv Infra	Gitti	566	3.50	Phentti	Nalkheda	14/12/2018 - 13/12/2028	Non Cluster

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16	Gopal Parmar-Shri Nanalal Parmar	Gitti	272	2.00	Tanodiya	Agar	22/03/2021 - 21/03/2031	Cluster
17	Gopal Parmar-Shri Nanalal Parmar	Gitti	454	2.00	Sumrakhedi	Agar	04/03/2015 - 03/03/2025	Cluster
18	Jagdish Prasad Dangi-Shri Mukunda Ram Dangi	Gitti	824	1.96	Soyatkhurd	Susner	15/09/2016 - 14/09/2026	Non Cluster
19	Kamal Gupta-Shri Shree Nath Gupta	Gitti	1379	2.00	Soyatkala	Susner	22/03/2017 - 21/03/2027	Non Cluster
20	Kamal Singh-Shri Shankar Singh Parihar	Gitti	13/2	2.00	Bargdi	Barod	04/10/2018 - 03/10/2028	Non Cluster
21	Kushal Singh Parihar-Shri Narayan Singh	Gitti	13/1	1.80	Bargdi	Barod	17/10/2017 - 16/10/2027	Non Cluster
22	Lal Singh Rajput-Shri Amar Singh Rajput	Gitti	247/2	2.00	Kachnariya	Agar	15/01/2019 - 14/01/2029	Non Cluster
23	M P S Chandrawat-Shri Jagdish Singh Chandrawat	Gitti	1550/3	1.55	Suigovan	Nalkheda	05/03/2019 - 04/03/2029	Non Cluster

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24	M P S Chandrawat-Shri Jagdish Singh Chandrawat	Gitti	140	2.00	Lasuldiya Kelwa	Nalkheda	01/02/2016 - 31/01/2026	Non Cluster
25	Mahendra Singh Parmar-Shri Mangilal Parmar	Gitti	72/3, 79, 80	1.00	Devli Piplon	Barod	28/06/2018 - 27/06/2028	Non Cluster
26	Mahendra Singh-Shri Ishwar Singh	Gitti	838	1.00	Thinkriya	Nalkheda	06/05/2015 - 05/05/2025	Non Cluster
27	Mahesh Kumar Sharma-Shri Jamuna Prasad Sharma	Gitti	2687	2.00	Susner	Susner	03/09/2014 - 02/09/2024	Cluster
28	Manish Gupta-Shri Jagdish Chandra Gupta	Gitti	1326/4	2.00	Soyatkala	Susner	17/10/2017 - 16/10/2027	Non Cluster
29	Manoj Parmar-Shri Harikishan Parmar	Gitti	140	2.00	Badgon	Agar	06/10/2018 - 05/10/2028	Non Cluster
30	Mayur Jain-Shri Sushil Kumar Jain	Gitti	448/2	1.00	Kasba Agar	Agar	05/06/2014 - 04/06/2024	Cluster
31	Mod Singh-Shri Abhay Singh	Gitti	35	2.00	Khandwas	Barod	09/05/2018 - 08/05/2028	Non Cluster
32	R K Infra	Gitti	2479/2 Min 1,2,3,4,5	1.00	Dharola	Nalkheda	22/03/2017 - 21/03/2027	Non Cluster

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33	Rajesh Arora-Shri Krishna Chandra Arora	Gitti	2329/1	2.00	Kasba Agar	Agar	18/01/2017 - 17/01/2027	Cluster
34	Rajesh Deshmukh-Shri Laxman Rao Deshmukh	Gitti	2702	2.00	Susner	Susner	30/11/2010 - 25/03/2031	Non Cluster
35	Rajesh Kumar Medatwal	Gitti	849	1.50	Dongargovan	Susner	12/04/2018 - 11/04/2028	Non Cluster
36	Rakesh Sharma-Shri Ram Narayan Sharma	Gitti	53	3.00	Pipliyanankar	Susner	01/02/2016 - 31/01/2026	Non Cluster
37	Rameshwar Yadav-Shri Bheru Singh Yadav	Gitti	574	2.00	Amla	Agar	11/07/2016 - 10/07/2026	Non Cluster
38	Rameshwar Yadav-Shri Bheru Singh Yadav	Gitti	468	1.00	Amla	Agar	05/06/2014 - 04/06/2024	Non Cluster
39	Ratan Lal Dangi-Shri Kanyalal Dangi	Gitti	1326/4 Min 2	2.00	Soyatkala	Susner	25/06/2018 - 24/06/2028	Non Cluster
40	Sanjay Jain-Shri Hastimal Jain	Gitti	802	2.00	Fathepurmendki	Agar	12/01/2016 - 11/01/2026	Non Cluster
41	Sanjay Patidar-Shri Radheshyam Patidar	Gitti	950, 941	1.00	Bhesoda	Nalkheda	06/10/2016 - 05/10/2026	Non Cluster

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42	Sanjay Singh Rathore-Shri Mahendra Singh Rathore	Gitti	277	2.00	Tanodiya	Agar	28/03/2022 - 27/03/2032	Cluster
43	Sanjay Singh Rathore-Shri Mahendra Singh Rathore	Gitti	277, 289	2.00	Tanodiya	Agar	26/12/2018 - 25/12/2028	Cluster
44	Shankar Singh Sisodiya-Shri Bhagwan Singh Sisodiya	Gitti	795	1.00	Garbada	Barod	14/06/2017 - 13/06/2027	Non Cluster
45	Shankar Singh Sisodiya-Shri Bhagwan Singh Sisodiya	Gitti	795	2.00	Garbada	Barod	04/03/2013 - 03/03/2023	Non Cluster
46	Shree Balaji Tirupti Construction-Shri Chandra Prakash Varma	Gitti	2329/1	3.50	Kasba Agar	Agar	03/09/2014 - 02/09/2024	Cluster
47	Shree Balaji Tirupti Construction-Shri Chandra Prakash Varma	Gitti	448/2	4.80	Kasba Agar	Agar	04/02/2014 - 03/02/2024	Cluster
48	Tirupati Infrastructure	Gitti	2476/3, 2476/4 Min 2	2.00	Dharola	Agar	07/04/2017 - 06/04/2027	Non Cluster

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49	Tripti-Shri Jitesh Kumar Mittal	Gitti	336 Min 52	2.00	Tanodiya	Agar	11/03/2015 - 10/03/2025	Non Cluster
50	Vishnu Prasad Mittal-Shri Radha Krishana Mittal	Gitti	679/2	2.00	Phentti	Nalkheda	02/01/2016 - 01/01/2026	Non Cluster
51	Vishnu Prasad Mittal-Shri Radha Krishana Mittal	Gitti	680/1/2	2.00	Phentti	Nalkheda	22/03/2017 - 21/03/2027	Non Cluster
52	Arvind Sharma S/O Ramnarayan Sharma	Gitti	839	1.00	Dongargovan	Susner	24/08/2021 - 23/08/2031	Non Cluster
53	Kalpana Savla W/O Jitendra Savla	Gitti	2718	1.40	Susner	Susner	03/02/2021 - 02/02/2031	Cluster
54	Kanhaiya Lal Parmar S/O Bheru Lal Parmar	Gitti	142/1	1.77	Arniya	Agar	22/03/2021 - 21/03/2031	Cluster
55	Mohit Maheshwari S/O Om Prakash Maheshwari	Gitti	478	4.00	Jamli	Barod	03/09/2021 - 02/09/2031	Non Cluster
56	Prahlad Singh Chouhan	Gitti	235	2.00	Tanodiya	Agar	02/02/2021 - 01/02/2031	Non Cluster

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57	Shyam Singh S/O Bhagwan Singh	Gitti	635	3.45	Bargdi	Barod	03/08/2021 - 02/08/2031	Non Cluster
58	Amber Verma S/O Chandra Prakash Verma	Gitti	304, 428	2.00	Rajakhedi	Agar	07/03/2019 - 06/03/2029	Cluster
59	M/S Jay Ambe Construction	Gitti	304	2.00	Rajakhedi	Agar	07/03/2019 - 06/03/2029	Cluster
60	Visvjeet Singh-Shri Ajay Singh Tomar	Gitti	2687	2.00	Susner	Susner	11/03/2015 - 10/03/2025	Cluster
61	Rajesh Deshmukh S/O Laxman Rao Deshmukh	Murrum	2129/ Min 1	1.70	Susner	Susner	26/03/2021 - 25/03/2031	Non Cluster
62	Vijaypal singh Rajput S/O Chandrpal singh	Gitti	952/ Min 27	2.90	Kasba Barod	Barod	04/04/2022 - 03/04/2032	Non Cluster
63	Balu Singh-Shri Gulab Singh	Gitti	995	2.00	Jamli	Barod	पत्र क्रमांक 651 दिनांक 24.06.2021 से स्वीकृत	Cluster
64	R K Infra	Gitti	2479/4/1, 2479/4/2, 2479/4/3, 2479/3	2.00	Dharola	Nalkheda	सैद्धांतिक सहमति पत्र क्रमांक 1110 दिनांक 12.10.2021	Non Cluster
65	Jagdish Patel S/O Devilal Patel	Gitti, M-Sand	3252	1.00	Semalkhedi	Nalkheda	सैद्धांतिक सहमति पत्र क्रमांक 1410 दिनांक 23.02.2022	Non Cluster

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66	Samta Gupta W/O Manish Gupta	Gitti, M-Sand	1326/4 Min 2	2.00	Soyatkala	Susner	सैद्धांतिक सहमति पत्र क्रमांक 1488 दिनांक 14.03.2022	Non Cluster
67	Ayush Jain S/O Ashok Kumar Jain	Gitti, M-Sand	92	3.00	Badgon	Agar	सैद्धांतिक सहमति पत्र क्रमांक 1490 दिनांक 14.03.2022	Non Cluster
68	Harinarayan Yadav S/O Pura lal Yadav	Gitti	11	2.00	Dehridev	Nalkheda	सैद्धांतिक सहमति पत्र क्रमांक 5287-89/खनिज/उ.प./न.क्र.1/2022 भोपाल दिनांक 20.04.2022	Non Cluster
31 Minor Minerals List								
1	M/s Arpan Enterprises	Laterite	2214/3	24.093	Kasba Agar	Agar	11/10/2019-10/10/2049	Cluster

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21. Details of Eco – Sensitive Area, if any, in theDistrict

There are no major Eco-sensitive zones in the district.

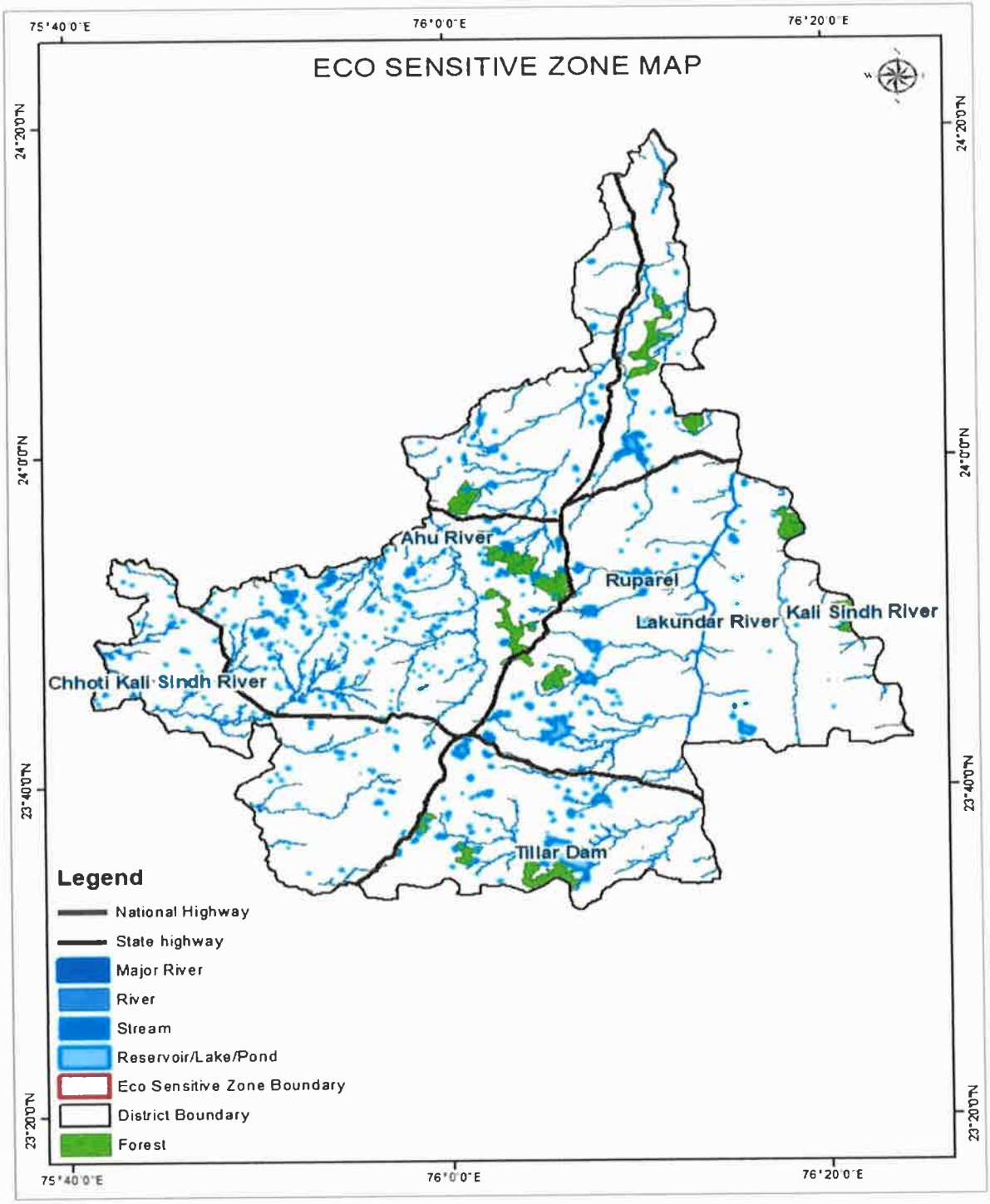

Figure 16 Eco-sensitive map of the District

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22. Impact on the Environment due to MiningActivity

Generally, the Environmental impacts can be categorized as either primary or secondary. Primary impacts are those, which are attributed directly by the project, secondary impacts are those, which are indirectly induced and typically include the associated investment and changed pattern of social and economic activities by the proposed action.

The impact has been ascertained for the project assuming that the pollution due to mining activity has been completely spelled out under the baseline environmental status for the entire ROM which is proposed to exploit from the mines.

Air

Mining Operations are carried out by opencast semi mechanized/ Mechanized method, dust particles are generated due to various activities like, Excavation, Loading, handling of mineral and transportation. The air quality in the mining area depends upon the nature and concentration of emissions and meteorological conditions.

The major air pollutants due to mining activity includes: -
Particulate Matter (Dust) of various sizes.

- Gases, such as, Sulphur Dioxide, Oxides of Nitrogen, Carbon Monoxide etc., from vehicular exhaust.
- Dust is the single Air pollutant observed in the open cast mines. Diesel operating drilling machines, small amount of blasting and movement of machinery/ vehicles produce gaseous (NO_x and SO_x) emissions, usually at low levels. Dust can be of significant nuisance surrounding land users and potential health risk in some circumstances.

Water Impact

The mining operation leads to intersection of the water table which causes ground water depletion. Due to the interruption surface water sources like River, Nallah, Odai etc., surface water system, Drainage pattern of the area is altered.

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Noise

Noise pollution is mainly due to operation of Machineries and occasional plying of machineries. These activities will create Noise pollution in the surrounding area.

Land Environment

The topography of the area will change; due to the Topographical changes the entire Eco system will be altered.

Flora and Fauna

The impact on biodiversity is difficult to quantify because of its diverse and dynamic characteristics.

Mining activities generally result in the deforestation, land degradation, water, air and noise pollution which directly or indirectly affect the faunal and floral status of the project area.

However, occurrence and magnitude of these impacts are entirely dependent upon the project location, mode of operation and technology involved.

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23. Remedial Measure to mitigate the impact of Mining on the Environment:

Air

Mitigated measures suggested for air pollution controls are based on the baseline ambient air quality of the area

The following measures are proposed to be adopted in the mines such as,

- Dust generation shall be reduced by using sharp teeth of shovels.
- Wet drilling shall be carried out to contain the dust.
- Controlled blasting techniques shall be adopted.
- Water spraying on haul roads, service roads and overburden dumps will help in reducing considerable dust pollution.
- Proper and regular maintenance of mining equipment's have to be considered.
- Transport of material in trucks covered with tarpaulin.
- The mine pit water can be utilized for dust suppression in and around mine areas.
- Information on wind direction and meteorology will be considered while planning, so that pollutants, which cannot be fully suppressed by engineering technique, will be prevented from reaching the nearby agriculture area.
- Comprehensive green belt around overburden dumps has to be carried out to reduce to fugitive dust emissions in order to create clean and healthy environment.

Water

- Construction of garland drains to divert surface run-off into the mining area.
- Construction of check dams / gully plugs at strategic places to arrest silt wash off from broken up area.
- Retaining walls with weep hole will be constructed around the mine boundaries to arrest silt wash off.
- The mined out pits shall be converted into the water reservoir at the end of mine life. This will help in recharging ground water table by acting as a water harvesting structure.

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- Periodic analysis of mine pit water and ground water quality in nearby villages.
- Domestic sewage from site office & urinals/latrines provided in ML is discharged in septic tank followed by soak pits.

Noise

- Periodic maintenance of machinery, equipment shall be ensured to keep the noise generated at minimum.
- Development of thick green belt around mining area and haul roads to reduce the noise.
- Provision of earplugs to workers exposed to high noise generating activities. Workers and operators at work site will be provided with earmuffs.
- Conducting periodical medical check-up of all workers for any noise related health problems.
- Proper training to personnel to create awareness about adverse noise level effects.
- Periodic noise monitoring at suitable locations in the mining area and nearby habitations to assess efficacy of adopted control measures.
- During the blasting, optimum spacing, burden and charging of holes will be made under the supervision of competent qualified mines foreman, mate as approved by Director of Mines safety.

Land Environment

- Riparian vegetation should be developed that doesn't stress with changes over short period of time.
- Safety barrier zone should be left out in order to prevent quick sand condition or rapid erosion of river banks.
- Development of suitable greenbelt in safety and barrier zone
- Waste dumps should be stabilized taking proper measures
- Degradation of land environment should be checked by briefing the worker about routine works regarding cleanliness and proper mining measures.
- No such infrastructure or any construction should be done that might hinder the natural flow of the river.

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Biological Environment

- Development of gap filling saplings in the safety barrier left around the quarry area.
- Carrying out thick greenbelt with local flora species predominantly with long canopy leaves on the inactive mined out upper benches.
- Development of dense poly-culture plantation using local flora species in the mining area at conceptual stage.
- Adoption of suitable air pollution control measures as suggested above.
- Transport of materials in trucks covered with tarpaulin.
- Construction of garland drains and settling tank to arrest silt wash off from lease area.
- Construction of retention walls around lower boundary of mining area to arrest silt wash off and roll down boulders.
- Retaining walls with weep hole will be constructed around the mine boundaries to arrest silt wash off.

24. Reclamation of Mined out area

For River sand mining, the quarry should be demarcated using pillars and left for replenishment during monsoon season. No mining activity should be undertaken during monsoon period to avoid accidents and mishaps. Mining activity in rainy season also effected to aquatic animal so mining should be strictly restricted in river bed. For stone query there is no proposal for backfilling, reclamation and rehabilitation. The quarry pit should be fenced by barbed wire to prevent inherent entry of public and cattle. The quarried out pit will be allowed to collect rain and seepage water which act as a reservoir for storage. The Quarried pit may be used as water reservoir for both Domestic and Agriculture purpose, in case of stone mining.

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25. 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. In case any 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 tocarry 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

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- Minimum the risk and impact of event/ accident
- Effective prevention of damage to property.
- 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.

26. Details of the Occupational Health issues in theDistrict:

Open cast method involves dust generation by excavation, loading and transportation of mineral. Atsite, during excavation and loading activity, dust is main pollutant which affects the health of workerswhereas environmental and climatic conditions also generate the health problems. Addressing theoccupational health hazard means gaining an understanding of the source (its location and magnitude orconcentration), 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).

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

Physical Hazards due to Mining Operations:

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

Light: - The workers may be exposed to the risk of poor illumination or excessive brightness.Theeffects are eye strain, headache, eye pain and lachrymation, congestion around the cornea and eyefatigue. 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 exposureare burns, heat exhaustion, heat stroke and heat cramps; the indirect effects are decreased efficiency, increased fatigue and enhanced accident rates. Heat and humidity are encountered in hot and humidcondition when temperatures and air temperatures increase in summer time up to 46.10C or above in theriver bed mining area.

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

Respiratory Problems: - Large amounts of dust in air can be a health hazard, exacerbating respiratorydisorders 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.

Table 14 Number of Health Centre's in Agar Malwa District

Block wise Distribution of Hospitals				
Block	**Ayurvedic, Homeo &Yunani**	**PHC+ Allopathic**	**SHC**	**Allopathic**
Agar Malwa	-	03	22	-
Barod	-	01	17	-
Susner	-	01	21	-
Nalkheda	-	01	17	-

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Table 15 Employees informationof Health Centre's in Agar Malwa District

Medical and Health Employees (Block wise)							
Block	Medical Officer		Health Inspectors	Nurse	Compounder	Others	Total
	Allopathic	Others					
Agar Malwa	04	-	-	04	01	-	09
Barod	04	-	-	07	02	-	13
Susner	02	-	-	07	01	-	10
Nalkheda	02	-	-	05	01	-	08

Table 16 Tuberculosis Patient's list of Agar Malwa 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	1060	0	0
2	2018	1088	21	0
3	2019	1162	51	0
4	2020	781	72	0
5	2021	777	422	212

Table 17 Silicosis Patient's list of Agar Malwa District

Sr. No.	Village	No. of Patients	Name of Patients	Age	Disease	Death
1	Nil	Nil	-	-	-	-
2	Nil	Nil	-	-	-	-

Malaria control in Madhya Pradesh is complex because of vast tracts of forest with tribal settlement. Fifty four million individuals of various ethnic origins, accounting for 8% of the total population of India, contributed 30% of total malaria cases, 60% of total falciparum cases and 50% of malaria deaths in the country. Ambitious goals to control tribal malaria by launching "Enhanced Malaria Control Project" (EMCP) by the National Vector Borne Disease Control Programme (NVBDCP), with the World Bank assistance, became effective in September 1997 in eight north Indian states. Under EMCP, the programme used a broader mix of new interventions, i.e. insecticide-treated bed nets, spraying houses with effective residual insecticides, use of larvivorous fishes, rapid diagnostic tests for prompt diagnosis, treatment of the sick with effective radical treatment and increased public awareness and IEC.

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The strategic plan will serve as the guide to all the districts and the state of Madhya Pradesh to achieve the TB elimination goals. Success of this endeavour will be an important chapter in the history of control of infectious diseases.

Tuberculosis is a disease dreaded due to it's social consequences and age old myths and misconceptions regarding it's transmission and treatment. It is more often mistreated by the unqualified and untrained thus leading to patients suffering physically and monetarily. Elimination of Tuberculosis will entail mammoth efforts by each and every stakeholder involved. The launch of this document provides with the necessary roadmap and momentum, in direction of meeting the goals specified.

27. Plantation and Green Belt Development in respectof 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 bioaesthetics 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.

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Table 18 Recommended Plant species for green belt development/plantation.

S.No.	Botanical Name	Family	Common Name
1.	Buchanania lanzan (spreg)	Anacardiaceae	Achar
2.	Mangifera indica (Linn)	Anacardiaceae	Aam
3.	Emblica officinalis	Euphorbiaceae	Awla
4.	Tamarindus indica (Linn)	Caesalpiniaceae	Imli
5.	Anogeissus pendula	Combrataceae	Kardhai
6.	siras Albizia lebbek	Leguminosae (Mimoseae)	Kala
7.	Azadirachta indica	Meliaceae	Neem
8.	Butea monosperma	Leguminosea (papilionaceae)	Palas
9.	Ficus infectoria	Moraceae	Pakar
10.	Stereospermum suaveolens	Bignoniaceae	Padar
11.	Salmalia malabarica, Bombaxcieba	Malvaceae	Semal
12.	Madhuca indica	Sapotaceae	Mahua
13.	Delbergia latifolia, Roxb	Leguminosae (Papilionaceae)	Shisham
14.	Lannea coromandalica	Anacardiaceae	Kankar
15.	Diospyros melanoxeon	Ebenaceae	Tendu
16.	Anogeissus latifolia	Combretaceae	Dhavda
17.	Zizyphus jujube	Rhamnaceae	Ber
18.	Cassia fistula	Leguminosae (Caesalpiniaceae)	Amaltash
19.	Syzygium cuimini	Myrataceae	Jamun
20.	Acacia karoo	Fabaceae	Keekar

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.

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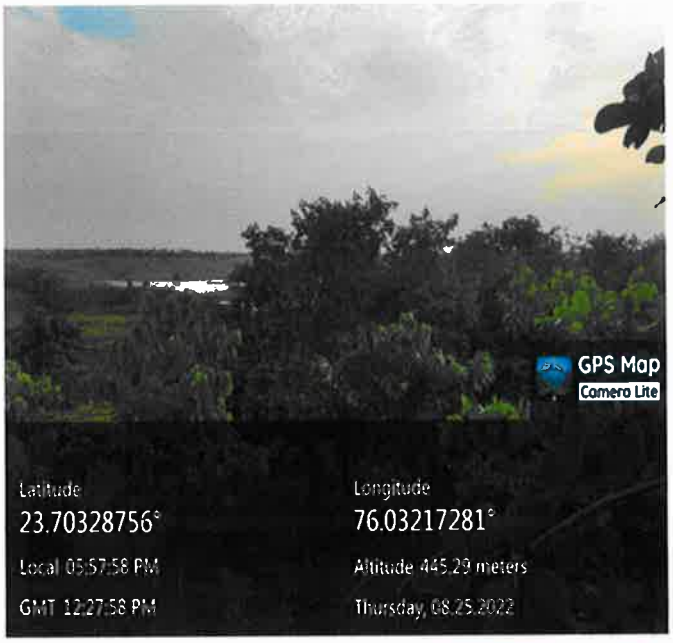
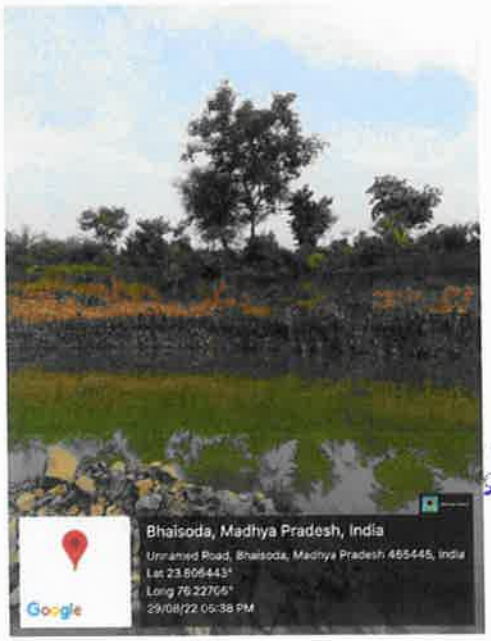
Plantation Photographs of Mines Area





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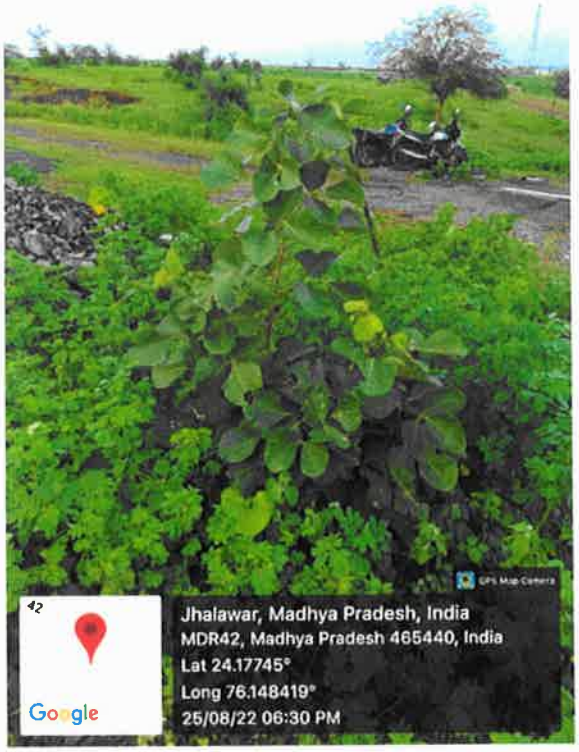

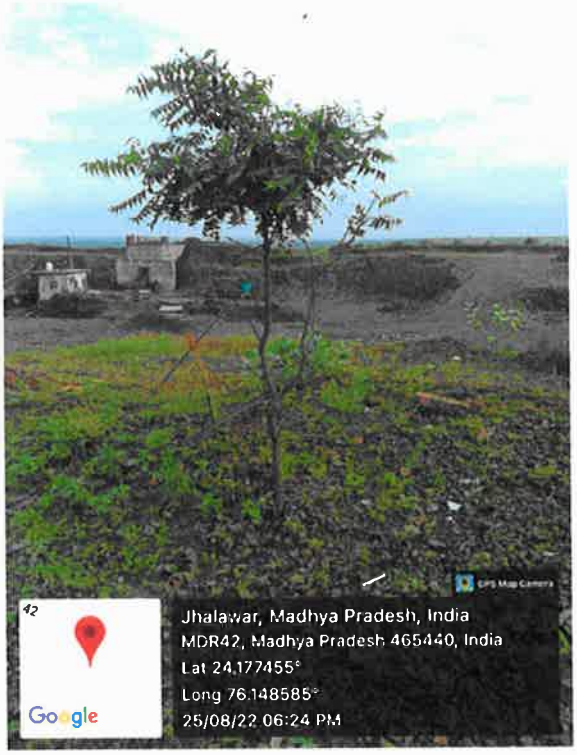

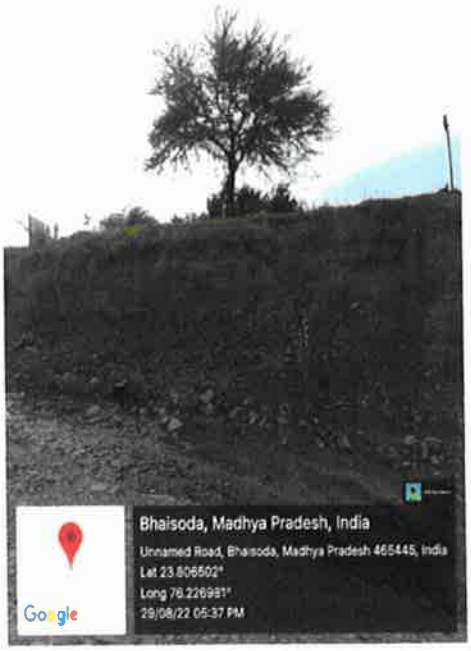

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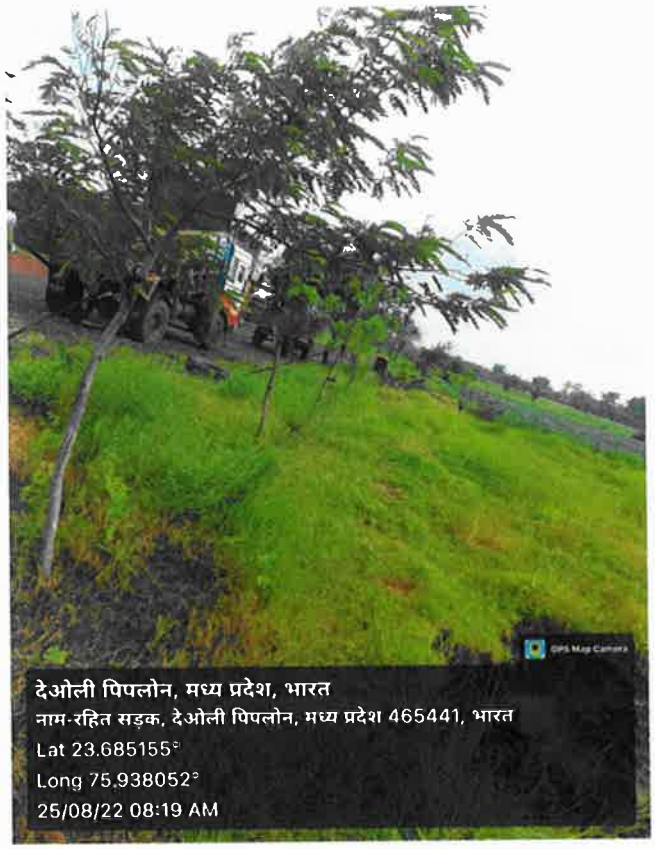

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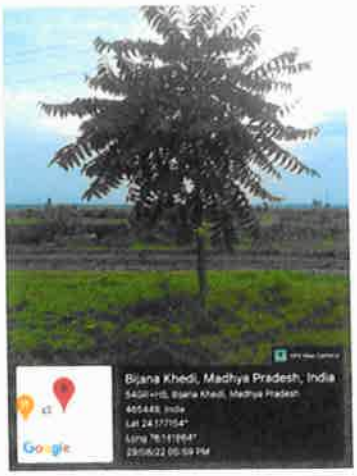

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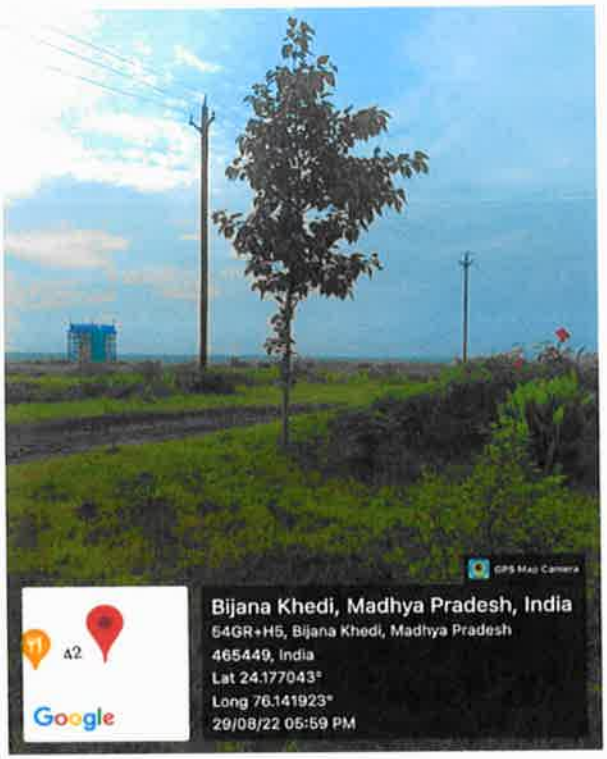

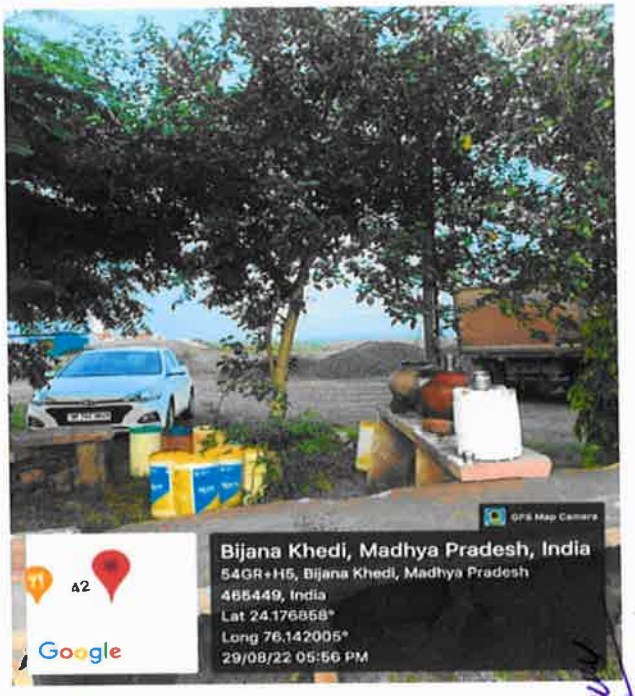

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State Level Expert Appraisal Committee, M.P.
Assessment Agency
Paryavaran Parisar

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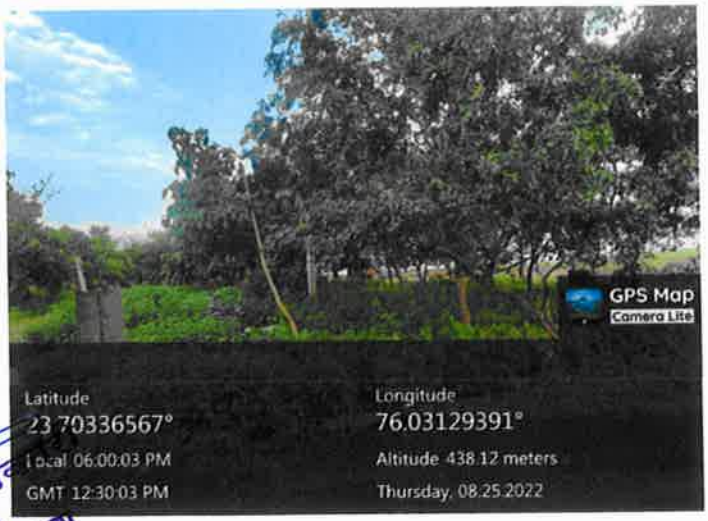

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Table 19 List of Lease Wise Plantation Details

S. No.	Name of the Lessee	Name of the Mineral	Khasra Number	Area inHa.	Village/Tehsil	Obtained Environmental Clearance (Yes/No)	Mining Lease Grant Order No. & date	Date of commencement of Mining Operation	Validity of theLease	Captive/Non Captive	Mining Method	Operational/ Non-Operational	Co-ordinates		Total No. of Plantation
1	Arvind Sharma-ShriRamnarayan Sharma	Gitti	885	2.00	Dongargovan Susner	3870 09/01/2020	Lease Order No. : 355, Lease Order Date : 04/09/2018	12/03/2020	18/09/2018 – 17/09/2028	Non Captive	Open cast	Operational	A	N 24°14'3.17" E 76°09'11.39"	80
													B	N 24°13'58.21" E 76°09'16.98"	
													C	N 23°13'54.96" E 76°09'15.78"	
													D	N 23°13'59.70" E 76°09'10.48"	
2	Ashok Kumar Jain-ShriHukum Chand Jain	Gitti	428	2.52	Parsukhedi Agar	1784 08/06/2015	Lease Order No. : 610, Lease Order Date : 11/12/2014	04/03/2015	04/03/2015 – 03/03/2025	Non Captive	Open cast	Operational	A	N 23°42'09.49" E 76°02'06.62"	50
													B	N 23°42'07.91" E 76°02'11.01"	
													C	N 23°42'02.96" E 76°02'11.52"	
													D	N 23°42'02.05" E 76°02'06.65"	
3	Baboo Singh Rathor-ShriBharu Singh Rathor	Gitti	2329/1	2.00	Kasba Agar Agar	30 04/10/2018	Lease Order No. : 101, Lease Order Date : 31/05/2018	01/12/2018	08/05/2018 – 07/05/2028	Non Captive	Open cast	Operational	A	N 23°42'09.40" E 76°01'58.00"	200
													B	N 23°42'09.30" E 76°02'04.20"	
													C	N 23°42'03.30" E 76°02'03.20"	
													D	N 23°42'04.50" E 76°01'57.10"	
4	Babulal Bijapari-ShriMunna Lal Bijapari	Gitti	283	2.00	Naniyakhedi Agar	11611 26/02/2016	Lease Order No. : 134, Lease Order Date : 28/04/2015	01/02/2015	01/02/2015 – 31/01/2025	Non Captive	Open cast	Operational	A	N 23°40'26.67" E 76°07'47.42"	150
													B	N 23°40'25.40" E 76°07'51.57"	
													C	N 23°40'32.53" E 76°07'57.49"	
													D	N 23°40'33.62" E 76°07'52.89"	
5	Balu Singh-Shri GulabSingh	Gitti	995	2.00	Jamli Barod	8409 30/11/2015	Lease Order No. : 290, Lease Order Date : 16/07/2014	28/08/2014	28/08/2014 – 27/08/2024	Non Captive	Open cast	Operational	A	N 23°44'21.64" E 75°55'48.30"	70
													B	N 23°44'21.64" E 75°55'53.53"	
													C	N 23°44'14.76" E 75°55'53.86"	
													D	N 23°44'15.39" E 75°55'49.34"	

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6	Bharat Singh Chouhan-Shri Pur Sing Chouhan	Gitti	70	1.00	Lalakhedi Susner	81767 06/11/2020	Lease Order No. : 241, Lease Order Date : 23/12/2013	01/01/2014	01/01/2014 – 31/12/2023	Non Captive	Open cast	Operational	A	N 24°04'01.30" E 76°08'43.23"	150
													B	N 24°04'02.40" E 76°08'48.30"	
													C	N 24°04'00.10" E 76°08'48.60"	
													D	N 24°03'59.40" E 76°08'49.40"	
7	Bharat Singh Chouhan-Shri Pur Sing Chouhan	Gitti	44	2.00	Lalakhedi Susner	5708 22/09/2015	Lease Order No. : 245, Lease Order Date : 23/12/2013	03/09/2014	03/03/2014 – 02/03/2024	Non Captive	Open cast	Operational	A	N 24°04'15.07" E 76°08'45.49"	75
													B	N 24°04'16.16" E 76°08'50.02"	
													C	N 24°04'11.87" E 76°08'52.16"	
													D	N 24°04'10.66" E 76°08'47.39"	
8	Bhupendra Sharma-ShriKrishnavallabh Sharma	Gitti	1057	2.00	Jamli Barod	6953 30/10/2015	Lease Order No. : 260, Lease Order Date : 02/07/2014	16/07/2014	16/07/2014 – 15/07/2024	Non Captive	Open cast	Operational	A	N 23°44'16.32" E 75°55'47.29"	25
													B	N 23°44'19.48" E 75°55'47.01"	
													C	N 23°44'19.99" E 75°55'54.01"	
													D	N 23°44'16.28" E 75°55'53.75"	
9	Bhupendra Singh-ShriKailash Narayan	Gitti	144, 145	1.90	Amiya Agar	186 30/05/2016	Lease Order No. : 491, Lease Order Date : 23/12/2015	29/05/2016	12/01/2016 – 11/01/2026	Non Captive	Open cast	Operational	A	N 23°40'19.33" E 76°07'48.43"	65
													B	N 23°40'19.42" E 76°07'51.18"	
													C	N 23°40'26.19" E 76°07'55.91"	
													D	N 23°40'28.22" E 76°07'53.76"	
10	Chandrapal Singh Rajput-Shri Amar SinghRajput	Gitti	952 Min 27	2.00	Barod Barod	3052 13/03/2015	Lease Order No. : 246, Lease Order Date : 23/12/2013	13/02/2014	13/02/2014 – 12/02/2024	Non Captive	Open cast	Operational	A	N 23°47'18.07" E 75°50'23.04"	105
													B	N 23°47'18.12" E 75°50'30.57"	
													C	N 23°47'15.02" E 75°50'30.08"	
													D	N 23°47'15.11" E 75°50'23.01"	
11	Dilip Singh Sisodiya-ShriMoti Singh Sisodiya	Gitti	2	2.00	Akhli Susner	188 30/05/2016	Lease Order No. : 188, Lease Order Date : 20/05/2016	23/01/2018	28/10/2017 – 27/10/2027	Non Captive	Open cast	Operational	A	N 23°54'52.65" E 76°05'38.22"	130
													B	N 23°54'52.71" E 76°05'46.06"	
													C	N 23°54'56.33" E 76°05'48.32"	
													D	N 23°54'56.40" E 76°05'37.96"	

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12	Dilip Singh-Shri BhadurSingh Tawar	Gitti	1057	2.00	Jamli Barod	4934 06/01/2017	Lease Order No. : 261, Lease Order Date : 02/07/2014	16/07/2018	22/07/2014 – 21/07/2024	Non Captive	Open cast	Operational	A	N 23°44'8.52" E 75°56'11.22"	20
													B	N 23°44'11.62" E 75°56'12.29"	
													C	N 23°44'12.33" E 75°56'5.16"	
													D	N 23°44'9.82" E 75°56'3.55"	
13	Gabbar Singh Gurjar-Shri Ramesh Chand Ji	Gitti	454	1.00	Sumrakhedi Agar	9744 23/12/2015	Lease Order No. : 383, Lease Order Date : 09/04/2012	No	18/04/2012 – 17/04/2022	Non Captive	Open cast	Operational	A	N 23°36'57.25" E 75°57'33.04"	42
													B	N 23°36'57.27" E 75°57'35.97"	
													C	N 23°37'00.79" E 75°57'36.16"	
													D	N 23°37'00.87" E 75°57'33.08"	
14	Giriraj Bhalotha-Shri Vishnu Prasad Bhalotha	Gitti	1480	2.00	Nalkheda Nalkheda	193 30/05/2016	Lease Order No. : 616, Lease Order Date : 15/12/2014	15/09/2016	11/03/2015 – 10/03/2025	Non Captive	Open cast	Operational	A	N 23°49'30.76" E 76°16'07.27"	101
													B	N 23°49'31.33" E 76°16'11.03"	
													C	N 23°49'38.57" E 76°16'10.23"	
													D	N 23°49'38.13" E 76°16'06.35"	
15	Gmv Infra	Gitti	566	3.50	Phentti Nalkheda	3013 06/11/2019	Lease Order No. : 427-428, Lease Order Date : 03/10/2018	26/11/2019	14/12/2018 – 13/12/2028	Non Captive	Open cast	Operational	A	N 23°51'4.80" E 76°15'23.2"	100
													B	N 23°51'3.30" E 76°15'27.90"	
													C	N 23°51'10.57" E 76°15'27.0"	
													D	N 23°51'11.30" E 76°15'23.50"	
16	Gopal Parmar-Shri Nanalal Parmar	Gitti	272	2.00	Tanodiya Agar	192 30/05/2016	Lease Order No. : 341, Lease Order Date : 09/03/2021	15/07/2021	22/03/2021 – 21/03/2031	Non Captive	Open cast	Operational	A	N 23°03'00.53" E 77°45'36.56"	90
													B	N 23°03'00.53" E 77°45'36.56"	
													C	N 23°03'00.53" E 77°45'36.56"	
													D	N 23°03'00.53" E 77°45'36.56"	
17	Gopal Parmar-Shri Nanalal Parmar	Gitti	454	2.00	Sumrakhedi Agar	1774 03/06/2015	Lease Order No. : 618, Lease Order Date : 15/12/2014	04/03/2015	04/03/2015 – 03/03/2025	Non Captive	Open cast	Operational	A	N 23°37'02.00" E 75°57'24.00"	80
													B	N 23°37'00.8" E 75°57'28.00"	
													C	N 23°36'54.4" E 75°57'28.50"	
													D	N 23°36'35.5" E 75°57'24.40"	

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18	Jagdish Prasad Dangi-Shri Mukunda Ram Dangi	Gitti	824	1.96	Soyatkhurd Susner	82 17/02/2017	Lease Order No. : 411, Lease Order Date : 29/07/2016	19/05/2017	15/09/2016 – 14/09/2026	Non Captive	Open cast	Operational	A	N 24°06'35.05" E 76°12'05.71"	950
													B	N 23°06'34.82" E 76°12'09.97"	
													C	N 24°06'30.00" E 76°12'09.80"	
													D	N 24°06'32.23" E 76°12'05.61"	
19	Kamal Gupta-Shri ShreeNath Gupta	Gitti	1379	2.00	Soyatkala Susner	13835 01/08/2018	Lease Order No. : 105, Lease Order Date : 03/03/2017	22/03/2017	22/03/2017 – 21/03/2027	Non Captive	Open cast	Operational	A	N 24°10'38.9" E 76°08'58.0"	87
													B	N 24°10'35.3" E 76°08'58.8"	
													C	N 24°10'34.9" E 76°08'52.7"	
													D	N 24°10'38.3" E 76°08'52.1"	
20	Kamal Singh-Shri Shankar Singh Parihar	Gitti	13/2	2.00	Bargdi Barod	63 01/04/2019	Lease Order No. : 426, Lease Order Date : 01/10/2018	30/05/2019	04/10/2018 – 03/10/2028	Non Captive	Open cast	Operational	A	N 23°45'16.03" E 75°41'19.23"	93
													B	N 23°45'17.14" E 75°41'23.46"	
													C	N 23°45'22.72" E 75°41'22.87"	
													D	N 23°45'21.62" E 75°41'18.85"	
21	Kushal Singh Parihar-Shri Narayan Singh	Gitti	13/1	1.80	Bargdi Barod	15 21/02/2018	Lease Order No. : 17804-805, Lease Order Date : 20/09/2017	16/05/2018	17/10/2017 – 16/10/2027	Non Captive	Open cast	Operational	A	N 23°45'20.17" E 75°41'19.94"	70
													B	N 23°45'21.79" E 75°41'25.67"	
													C	N 23°45'19.42" E 75°41'26.98"	
													D	N 23°45'16.46" E 75°41'22.08"	
22	Lal Singh Rajput-ShriAmar Singh Rajput	Gitti	247/2	2.00	Kachnariya Agar	48 01/04/2019	Lease Order No. : 615, Lease Order Date : 03/01/2019	24/08/2019	15/01/2019 – 14/01/2029	Non Captive	Open cast	Operational	A	N 23°38'10.30" E 75°58'10.99"	45
													B	N 23°38'06.80" E 75°58'10.92"	
													C	N 23°38'05.68" E 75°58'04.58"	
													D	N 23°38'09.04" E 75°58'04.25"	
23	M P S Chandrawat-ShriJagdish Singh Chandrawat	Gitti	1550/3	1.55	Suigovan Nalkheda	2905 01/11/2019	Lease Order No. : 710, Lease Order Date : 22/02/2019	28/12/2019	05/03/2019 – 04/03/2029	Non Captive	Open cast	Operational	A	N 23°49'49.8" E 76°10'05.3"	25
													B	N 23°49'49.54" E 76°10'1.66"	
													C	N 23°49'55.07" E 76°10'2.45"	
													D	N 23°49'54.40" E 76°10'05.93"	

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24	M P S Chandrawat-Shri Jagdish Singh Chandrawat	Gitti	140	2.00	Lasuldiya Kelwa Nalkheda	190 03/05/2016	Lease Order No. : 38, Lease Order Date : 03/02/2016	28/12/2017	01/02/2016 – 31/01/2026	Non Captive	Open cast	Operational	A	N 23°50'27.86" E 76°10'43.06"	190
													B	N 23°50'27.80" E 76°10'47.20"	
													C	N 23°50'32.78" E 76°10'48.50"	
													D	N 23°50'33.26" E 76°10'43.26"	
25	Mahendra Singh Parmar-Shri Mangilal Parmar	Gitti	72/3, 79, 80	1.00	Devli Piplon Barod	26 04/10/2018	Lease Order No. : 177, Lease Order Date : 23/06/2018	06/11/2019	28/06/2018 – 27/06/2028	Non Captive	Open cast	Operational	A	N 23°41'03.47" E 75°56'16.87"	150
													B	N 23°41'02.87" E 75°56'20.41"	
													C	N 23°41'03.66" E 75°56'22.76"	
													D	N 23°41'05.97" E 75°56'17.76"	
26	Mahendra Singh-Shri Ishwar Singh	Gitti	838	1.00	Thinkriya Nalkheda	1740 08/06/2015	Lease Order No. : 4214-15, Lease Order Date : 23/03/2015	06/05/2015	06/05/2015 – 05/05/2025	Non Captive	Open cast	Operational	A	N 23°46'24.87" E 76°16'46.13"	95
													B	N 23°46'21.93" E 76°16'51.89"	
													C	N 23°46'19.65" E 76°16'46.13"	
													D	N 23°46'23.42" E 76°16'43.76"	
27	Mahesh Kumar Sharma-Shri Jamuna Prasad Sharma	Gitti	2687	2.00	Susner Susner	3369 25/03/2015	Lease Order No. : 336, Lease Order Date : 29/08/2014	03/09/2014	03/09/2014 – 02/09/2024	Non Captive	Open cast	Operational	A	N 23°55'23.84" E 76°05'34.04"	226
													B	N 23°55'25.27" E 76°05'38.07"	
													C	N 23°55'19.26" E 76°05'40.31"	
													D	N 23°55'18.65" E 76°05'35.86"	
28	Manish Gupta-Shri Jagdish Chandra Gupta	Gitti	1326/4 Min 1	2.00	Soyatkala Susner	07 21/02/2018	Lease Order No. : 630, Lease Order Date : 23/09/2017	10/01/2018	17/10/2017 – 16/10/2027	Non Captive	Open cast	Operational	A	N 24°10'35.54" E 76°08'30.65"	201
													B	N 24°10'35.67" E 76°08'37.81"	
													C	N 24°10'32.77" E 76°08'38.02"	
													D	N 24°10'32.53" E 76°08'30.66"	
29	Manoj Parmar-Shri Harikishan Parmar	Gitti	140	2.00	Badgon Agar	36 06/10/2018	Lease Order No. : 189, Lease Order Date : 26/06/2018	12/09/2019	06/10/2018 – 05/10/2028	Non Captive	Open cast	Operational	A	N 23°38'12.35" E 75°58'30.21"	250
													B	N 23°38'11.62" E 75°58'35.59"	
													C	N 23°38'9.18" E 75°58'35.05"	
													D	N 23°38'8.63" E 75°58'28.09"	

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30	Mayur Jain-Shri SushilKumar Jain	Gitti	448/2	1.00	Kasba Agar Agar	7415 09/11/2015	Lease Order No. : 218, Lease Order Date : 28/05/2014	23/02/2019	05/06/2014 – 04/06/2024	Non Captive	Open cast	Operational	A	N 23°42'21.09" E 76°01'49.33"	80
													B	N 23°42'20.60" E 76°01'52.96"	
													C	N 23°42'17.35" E 76°01'52.25"	
													D	N 23°42'17.81" E 76°01'48.60"	
31	Mod Singh-Shri AbhaySingh	Gitti	35	2.00	Khandwas Barod	17 03/05/2018	Lease Order No. : 832, Lease Order Date : 28/12/2017	01/10/2018	09/05/2018 – 08/05/2028	Non Captive	Open cast	Operational	A	N 23°50'47.69" E 75°46'57.68"	22
													B	N 23°50'48.60" E 75°47'02.50"	
													C	N 23°50'43.67" E 75°47'02.83"	
													D	N 24°50'43.00" E 75°46'58.39"	
32	R K Infra	Gitti	2479/2 Min 1,2,3,4,5	1.00	Dharola Nalkheda	453 14/07/2017	Lease Order No. : 107, Lease Order Date : 03/03/2017	02/05/2017	22/03/2017 – 21/03/2027	Non Captive	Open cast	Operational	A	N 23°52'08.9" E 76°15'08.2"	120
													B	N 23°52'06.9" E 76°15'07.6"	
													C	N 23°52'09.0" E 76°15'02.2"	
													D	N 23°52'10.8" E 76°15'02.7"	
33	Rajesh Arora-Shri Krishna Chandra Arora	Gitti	2329/1	2.00	Kasba Agar Agar	03 21/02/2018	Lease Order No. : 4384-85, Lease Order Date : 22/03/2017	18/01/2017	18/01/2017 – 17/01/2027	Non Captive	Open cast	Operational	A	N 23°42'11.488" E 76°1'52.325"	1200
													B	N 23°42'10.432" E 76°1'55.870"	
													C	N 23°42'4.569" E 76°1'53.810"	
													D	N 23°42'5.625" E 76°01'50.265"	
34	Rajesh Deshmukh-ShriLaxman Rao Deshmukh	Gitti	2702	2.00	Susner Susner	336 21/06/2016	Lease Order No. : 343, Lease Order Date : 09/03/2021	16/06/2021	30/11/2010 – 25/03/2031	Non Captive	Open cast	Operational	A	N 23°55'45.64" E 76°5'49.36"	75
													B	N 23°55'42.42" E 76°5'49.59"	
													C	N 23°55'42.25" E 76°5'42.59"	
													D	N 23°55'45.52" E 76°5'42.26"	
35	Rajesh Kumar Medatwal	Gitti	849	1.50	Dongargovan Susner	28 04/10/2018	Lease Order No. : 1108, Lease Order Date : 31/03/2018	05/07/2019	12/04/2018 – 11/04/2028	Non Captive	Open cast	Operational	A	N 24°14'04.18" E 76°09'03.38"	87
													B	N 24°14'02.08" E 76°09'08.13"	
													C	N 24°13'54.23" E 76°09'04.46"	
													D	N 24°13'56.22" E 76°08'59.28"	

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36	Rakesh Sharma-Shri Ram Narayan Sharma	Gitti	53	3.00	Pipliyanankar Susner	196 30/05/2016	Lease Order No. : 40, Lease Order Date : 03/02/2016	19/02/2016	01/02/2016 – 31/01/2026	Non Captive	Open cast	Operational	A	N 23°55'46.10" E 76°01'49.72"	97
													B	N 23°55'46.15" E 76°01'42.55"	
													C	N 23°55'54.64" E 76°01'41.81"	
													D	N 23°55'54.70" E 76°01'49.40"	
37	Rameshwar Yadav-ShriBheru Singh Yadav	Gitti	574	2.00	Amla Agar	01 21/02/2018	Lease Order No. : 684, Lease Order Date : 10/04/2016	02/08/2018	11/07/2016 – 10/07/2026	Non Captive	Open cast	Operational	A	N 23°50'50.72" E 76°6'40.08"	350
													B	N 23°50'47.94" E 76°6'46.34"	
													C	N 23°50'45.78" E 76°6'46.29"	
													D	N 23°50'46.98" E 76°6'39.11"	
38	Rameshwar Yadav-ShriBheru Singh Yadav	Gitti	468	1.00	Amla Agar	2955 09/03/2015	Lease Order No. : 217, Lease Order Date : 28/05/2014	05/06/2014	05/06/2014 – 04/06/2024	Non Captive	Open cast	Operational	A	N 23°50'34.73" E 76°05'50.27"	350
													B	N 23°50'33.09" E 76°05'54.26"	
													C	N 23°50'31.29" E 76°05'52.87"	
													D	N 23°50'32.53" E 76°05'49.38"	
39	Ratan Lal Dangi-ShriKanyalal Dangi	Gitti	1326/4 Min 2	2.00	Soyatkala Susner	32 04/10/2018	Lease Order No. : 149, Lease Order Date : 20/06/2018	16/12/2019	25/06/2018 – 24/06/2028	Non Captive	Open cast	Operational	A	N 24°10'34.95" E 76°08'30.50"	69
													B	N 24°10'31.82" E 76°08'31.52"	
													C	N 24°10'30.10" E 76°08'24.71"	
													D	N 24°10'33.23" E 76°08'23.66"	
40	Sanjay Jain-Shri Hastimal Jain	Gitti	802	2.00	Fathepurmendki Agar	185 30/05/2016	Lease Order No. : 369, Lease Order Date : 22/09/2015	11/07/2016	12/01/2016 – 11/01/2026	Non Captive	Open cast	Operational	A	N 23°32'43.969" E 76°6'25.115"	120
													B	N 23°32'43.948" E 76°6'28.15"	
													C	N 23°32'50.509" E 76°6'28.205"	
													D	N 23°32'50.537" E 76°6'24.23"	
41	Sanjay Patidar-ShriRadheshyam Patidar	Gitti	950, 941	1.00	Bhesoda Nalkheda	81 17/02/2017	Lease Order No. : 413, Lease Order Date : 30/07/2016	07/09/2020	06/10/2016 – 05/10/2026	Non Captive	Open cast	Operational	A	N 23°48'24.934" E 76°13'34.042"	45
													B	N 23°48'23.362" E 76°13'39.402"	
													C	N 23°48'21.043" E 76°13'38.619"	
													D	N 23°48'23.403" E 76°13'33.638"	

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42	Sanjay Singh Rathore-Shri Mahendra Singh Rathore	Gitti	277	2.00	Tanodiya Agar	335 21/06/2016	Lease Order No. : 1374, Lease Order Date : 07/02/2022	30/12/2021	28/03/2022 – 27/03/2032	Non Captive	Open cast	Renewed	A	N 23°36'51.803" E 75°57'35.509"	50
													B	N 23°36'51.021" E 75°57'40.132"	
													C	N 23°36'46.625" E 75°57'36.233"	
													D	N 23°36'47.500" E 75°57'31.759"	
43	Sanjay Singh Rathore-Shri Mahendra Singh Rathore	Gitti	277, 289	2.00	Tanodiya Agar	4080 22/10/2020	Lease Order No. : 447-448, Lease Order Date : 06/10/2018	28/12/2020	26/12/2018 – 25/12/2028	Non Captive	Open cast	Operational	A	N 23°36'39.20" E 75°57'29.84"	50
													B	N 23°36'38.00" E 75°57'33.00"	
													C	N 23°36'44.79" E 75°57'33.80"	
													D	N 23°36'43.91" E 75°57'30.37"	
44	Shankar Singh Sisodiya-Shri Bhagwan Singh Sisodiya	Gitti	795	1.00	Garbada Barod	05 21/02/2018	Lease Order No. : 234, Lease Order Date : 04/05/2017	05/09/2018	14/06/2017 – 13/06/2027	Non Captive	Open cast	Operational	A	N 23°43'40.12" E 75°52'42.99"	90
													B	N 23°43'40.20" E 75°52'46.82"	
													C	N 23°43'36.72" E 75°52'46.85"	
													D	N 23°43'36.66" E 75°52'42.99"	
45	Shankar Singh Sisodiya-Shri Bhagwan Singh Sisodiya	Gitti	795	2.00	Garbada Barod	2302 25/11/2014	Lease Order No. : 4032/33, Lease Order Date : 22/02/2014	04/03/2013	04/03/2013 – 03/03/2023	Non Captive	Open cast	Operational	A	N 23°43'37.14" E 75°52'39.97"	50
													B	N 23°43'38.43" E 75°52'49.43"	
													C	N 23°43'36.40" E 75°52'49.92"	
													D	N 23°43'34.80" E 75°52'40.49"	
46	Shree Balaji Tirupti Construction-Shri Chandra Prakash Varma	Gitti	2329/1	3.50	Kasba Agar Agar	8930 18/08/2015	Lease Order No. : 335, Lease Order Date : 29/08/2014	03/09/2014	03/09/2014 – 02/09/2024	Non Captive	Open cast	Operational	A	N 23°42'14.81" E 75°59'11.22"	210
													B	N 23°42'14.77" E 75°59'18.49"	
													C	N 23°42'21.21" E 75°59'18.34"	
													D	N 23°42'21.14" E 75°59'10.75"	
47	Shree Balaji Tirupti Construction-Shri Chandra Prakash Varma	Gitti	448/2	4.80	Kasba Agar Agar	3079 14/01/2015	Lease Order No. : 568-70, Lease Order Date : 07/01/2014	04/02/2014	04/02/2014 – 03/02/2024	Non Captive	Open cast	Operational	A	N 23°42'21.54" E 76°01'55.99"	190
													B	N 23°42'23.59" E 76°02'04.35"	
													C	N 23°42'16.15" E 76°02'04.39"	
													D	N 23°42'15.98" E 76°01'55.84"	

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48	Tirupati Infrastructure	Gitti	2476/3, 2476/4 Min 2	2.00	Dharola Agar	456 14/07/2017	Lease Order No. : 163, Lease Order Date : 28/03/2017	11/05/2017	07/04/2017 – 06/04/2027	Non Captive	Open cast	Operational	A	N 23°52'01.2" E 76°15'02.6"	40
													B	N 23°52'00.2" E 76°15'06.5"	
													C	N 23°52'06.8" E 76°15'07.7"	
													D	N 23°52'07.8" E 76°15'04.3"	
49	Tripti-Shri Jitesh KumarMittal	Gitti	336 Min 52	2.00	Tanodiya Agar	6973 30/10/2015	Lease Order No. : 617, Lease Order Date : 15/12/2014	11/03/2015	11/03/2015 – 10/03/2025	Non Captive	Open cast	Operational	A	N 23°36'14.01" E 75°57'16.06"	55
													B	N 23°36'12.06" E 75°57'21.07"	
													C	N 23°36'07.81" E 75°57'21.44"	
													D	N 23°36'08.05" E 75°57'15.61"	
50	Vishnu Prasad Mittal-Shri Radha Krishana Mittal	Gitti	679/2	2.00	Phentti Nalkheda	187 30/05/2016	Lease Order No. : 370, Lease Order Date : 22/09/2015	02/01/2016	02/01/2016 – 01/01/2026	Non Captive	Open cast	Operational	A	N 23°51'4.13" E 76°15'15.0"	70
													B	N 23°51'3.70" E 76°15'17.97"	
													C	N 23°50'58.47" E 76°15'16.36"	
													D	N 23°50'59.56" E 76°15'10.44"	
51	Vishnu Prasad Mittal-Shri Radha Krishana Mittal	Gitti	680/1/2	2.00	Phentti Nalkheda	455 14/07/2017	Lease Order No. : 130, Lease Order Date : 10/03/2017	18/07/2017	22/03/2017 - 21/03/2027	Non Captive	Open cast	Operational	A	N 23°50'57.500" E 76°15'9.100"	95
													B	N 23°50'56.800" E 76°15'16.300"	
													C	N 23°50'52.300" E 76°15'14.200"	
													D	N 23°50'53.800" E 76°15'9.100"	
52	Arvind Sharma S/ORamnarayan Sharma	Gitti	839	1.00	Dongargovan Susner	8676 19/12/2021	Lease Order No. : 836, Lease Order Date : 06/08/2021	07/01/2022	24/08/2021 - 23/08/2031	Non Captive	Open cast	Non-Operational	A	N 24°14'15.801" E 76°09'8.277"	22
													B	N 24°14'15.835" E 76°09'11.233"	
													C	N 24°14'11.895" E 76°09'11.093"	
													D	N 24°14'11.891" E 76°09'8.170"	
53	Kalpana Savla W/OJitendra Savla	Gitti	2718	1.40	Susner Susner	No	Lease Order No. : 165, Lease Order Date : 21/06/2019	No	03/02/2021 – 02/02/2031	Non Captive	Open cast	Non-Operational	A	N 23°55'30.50" E 76°05'37.81"	10
													B	N 23°55'30.59" E 76°05'40.25"	
													C	N 23°55'29.44" E 76°05'44.09"	
													D	N 23°55'26.00" E 76°05'44.16"	

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54	Kanhaiya Lal Parmar S/OBheru Lal Parmar	Gitti	142/1	1.77	Amiya Agar	No	Lease Order No. : 346, Lease Order Date : 09/03/2021	NO	22/03/2021 – 21/03/2031	Non Captive	Open cast	Non-Operational	A	N 23°40'36.412" E 76°7'30.387"	05
													B	N 23°40'33.787" E 76°7'30.201"	
													C	N 23°40'32.368" E 76°7'29.098"	
													D	N 23°40'32.792" E 76°7'24.991"	
55	Mohit Maheshwari S/O Om Prakash Maheshwari	Gitti	478	4.00	Jamli Barod	No	Lease Order No. : 834, Lease Order Date : 06/08/2021	No	03/09/2021 – 02/09/2031	Non Captive	Open cast	Non-Operational	A	N 23°44'53.826" E 75°56'36.823"	10
													B	N 23°44'54.833" E 75°56'41.720"	
													C	N 23°44'45.861" E 75°56'43.808"	
													D	N 23°44'49.360" E 75°56'37.862"	
56	Prahlad Singh Chouhan	Gitti	235	2.00	Tanodiya Agar	8499 09/05/2021	Lease Order No. : 163, Lease Order Date : 21/06/2019	23/03/2022	02/02/2021 - 01/02/2031	Non Captive	Open cast	Operational	A	N 23°36'27.30" E 75°56'45.92"	65
													B	N 23°36'24.51" E 75°56'51.97"	
													C	N 23°36'31.69" E 75°56'50.30"	
													D	N 23°36'30.20" E 75°56'47.28"	
57	Shyam Singh S/OBhagwan Singh	Gitti	635	3.45	Bargdi Barod	2219 04/10/2021	Lease Order No. : 729, Lease Order Date : 08/07/2021	No	03/08/2021 - 02/08/2031	Non Captive	Open cast	Non-Operational	A	N 23°44'55.065" E 75°41'22.144"	54
													B	N 23°44'59.200" E 75°41'28.467"	
													C	N 23°44'54.190" E 75°41'32.530"	
													D	N 23°44'52.198" E 75°41'22.801"	
58	Amber Verma S/O Chandra Prakash Verma	Gitti	304, 428	2.00	Rajakhedi Agar	No	Lease Order No. : 04, Lease Order Date : 03/04/2018	No	07/03/2019 - 06/03/2029	Non Captive	Open cast	Non-Operational	A	N 23°40'25.41" E 76°07'18.02"	15
													B	N 23°40'25.42" E 76°07'22.15"	
													C	N 23°40'23.12" E 76°07'22.05"	
													D	N 23°40'21.83" E 76°07'17.97"	
59	M/S Jay Ambe Construction	Gitti	304	2.00	Rajakhedi Agar	No	Lease Order No. : 02, Lease Order Date : 03/04/2018	No	07/03/2019 - 06/03/2029	Non Captive	Open cast	Non-Operational	A	N 23°40'28.02" E 76°07'22.65"	05
													B	N 23°40'27.79" E 76°07'26.46"	
													C	N 23°40'23.07" E 76°07'26.18"	
													D	N 23°40'23.12" E 76°07'22.45"	

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60	Visvjeet Singh-Shri AjaySingh Tomar	Gitti	2687	2.00	Susner Susner	4615 12/08/2015	Lease Order No. : 619, Lease Order Date : 15/12/2014	No	11/03/2015 - 10/03/2025	Non Captive	Open cast	Non-Operational	A	N 23°55'16.035" E 76°5'27.743"	12
													B	N 23°55'21.786" E 76°5'22.689"	
													C	N 23°55'21.680" E 76°5'25.470"	
													D	N 23°55'18.633" E 76°5'27.808"	
61	Rajesh Deshmukh S/O Laxman Rao Deshmukh	Murrum	2129/ Min 1	1.70	Susner Susner	EC21B001MP1 21727 19/12/2021	Lease Order No. : 343, Lease Order Date : 09/03/2021	No	26/03/2021 - 25/03/2031	Non Captive	Open cast	Non-Operational	A	N 23°55'54.60" E 76°05'39.46"	48
													B	N 23°55'49.22" E 76°05'43.17"	
													C	N 23°55'49.22" E 76°05'37.40"	
													D	N 23°55'55.22" E 76°05'36.81"	
62	Vijaypal singh Rajput S/O Chandrpal singh	Gitti	952/ Min 27	2.90	Kasba Barod Barod	EC21B001MP1 72771 19/12/2021	Lease Order No. : 1772, Lease Order Date : 07/02/2022	No	04/04/2022 - 03/04/2032	Non Captive	Open cast	Non-Operational	A	N 23°47'22.355" E 75°50'25.466"	105
													B	N 23°47'22.108" E 75°50'31.956"	
													C	N 23°47'17.798" E 75°50'31.650"	
													D	N 23°47'18.211" E 75°50'22.622"	
31 Minor Minerals List															
63	M/s Arpan Enterprises	Laterite	2214/3	24.093	Kasba Agar Agar	No	Lease Order No. : 3-3/2018/12/1, Lease Order Date : 20/08/2019	No	11/10/2019-10/10/2049	Non Captive	Open cast	Non-Operational	A	N 23°41'37.1" E 76°00'57.5"	-
													B	N 23°41'37.4" E 76°01'04.0"	
													C	N 23°41'10.5" E 76°01'10.7"	
													D	N 23°41'09.1" E 76°00'59.0"	

प्रभारी अधिकारी
खनिज
जिला आगर-मालवा

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

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
दूरभाष नं. – 0755–2466970, 2466859
फैक्स नं. – 0755–2462136

No: 1669 / SEIAA/2022
Date: 28/09/22

प्रति,

कलेक्टर
जिला – आगर मालवा (म.प्र.)

विषयः नवीन जिला सर्वेक्षण रिपोर्ट – आगर मालवा (गौण एंव रेत खनिज)
संदर्भः आपका पत्र क्र. 2124, दिनांक 02.09.2022।

राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 747वी बैठक दिनांक 14.09.2022 में निम्नानुसार निर्णय लिया गया :–

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 592वीं बैठक दिनांक 06/09/2022 में जिला आगर मालवा की जिला सर्वेक्षण रिपोर्ट में निम्नानुसार सुझाव सहित अनुशंसा की गई है।

".....समिति द्वारा सुझाव गई उपरोक्त अनुशंसाओं के साथ आगर मालवा जिले की जिला सर्वेक्षण रिपोर्ट (गौण एंव रेत खनिज) 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 592वीं बैठक दिनांक 06/09/2022 की अनुशंसा को मान्य करते हुए आगर मालवा जिले की अद्यतन जिला सर्वेक्षण रिपोर्ट –(गौण एंव रेत खनिज) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है। तदानुसार जिला कलेक्टर, आगर मालवा को पुनरीक्षित जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक भौमिकी तथा खनिकर्म को सूचित किया जाये।

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

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ओ/ (श्रीमन् शुक्ला)
सदस्य सचिव

क्र.. 1670 /SEIAA/2022 भोपाल दिनांक 28/09/22

प्रतिलिपि :–

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।

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ओ/ सदस्य सचिव

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 592वीं बैठक दिनांक 06/09/2022 की अनुशंसा को मान्य करते हुए पन्ना जिले की अद्यतन जिला सर्वेक्षण रिपोर्ट (रेत खनिज) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है।

तदानुसार जिला कलेक्टर, पन्ना को पुनरीक्षित जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक भौमिकी तथा खनिकर्म को सूचित किया जाये।

33. <u>जिला सर्वेक्षण रिपोर्ट, जिला – टीकमगढ– –रेत खनिज</u>

राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 747वी बैठक दिनांक 14.09.2022 में निम्नानुसार निर्णय लिया गया :–

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 592वीं बैठक दिनांक 06/09/2022 में जिला टीकमगढ की जिला सर्वेक्षण रिपोर्ट में निम्नानुसार सुझाव सहित अनुशंसा की गई है।

".....समिति द्वारा सुझाई गई उपरोक्त अनुशांसाओ के साथ टीकमगढ जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघॉत निर्धारण प्राधिकरण की ओर प्रेषित किया जाये।"

राज्य स्तरीय समाघात निर्धारण प्राधिकरण (SEIAA) द्वारा विस्तृत चर्चा एवं विचार विमर्श उपरांत SEAC की 592वीं बैठक दिनांक 06/09/2022 की अनुशंसा को मान्य करते हुए टीकमगढ जिले की अद्यतन जिला सर्वेक्षण रिपोर्ट (रेत खनिज) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है।

तदानुसार जिला कलेक्टर, टीकमगढ को पुनरीक्षित जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक भौमिकी तथा खनिकर्म को सूचित किया जाये।

34. <u>जिला सर्वेक्षण रिपोर्ट, जिला – आगर मालवा –(गौण एंव रेत खनिज)</u>

राज्य स्तरीय समाघात निर्धारण प्राधिकरण द्वारा 747वी बैठक दिनांक 14.09.2022 में निम्नानुसार निर्णय लिया गया :–

राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति (SEAC) की 592वीं बैठक दिनांक 06/09/2022 में जिला आगर मालवा की जिला सर्वेक्षण रिपोर्ट में निम्नानुसार सुझाव सहित अनुशंसा की गई है।

".....समिति द्वारा सुझाव गई उपरोक्त अनुशंसाओं के साथ आगर मालवा जिले की जिला सर्वेक्षण रिपोर्ट (गौण एंव रेत खनिज) 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 592वीं बैठक दिनांक 06/09/2022 की अनुशंसा को मान्य करते हुए आगर मालवा जिले की अद्यतन जिला सर्वेक्षण रिपोर्ट –(गौण एंव रेत खनिज) का अनुमोदन SEAC द्वारा सुझाई गई उपरोक्त अनुशंसाओं के साथ किया जाता है।

तदानुसार जिला कलेक्टर, आगर मालवा को पुनरीक्षित जिला सर्वेक्षण रिपोर्ट जिला पोर्टल पर अपलोड करवाये जाने एवं संचालक भौमिकी तथा खनिकर्म को सूचित किया जाये।

(श्रीमन् शुक्ला)	(अनिल कुमार शर्मा)	(अरूण कुमार भट्ट)
सदस्य सचिव	सदस्य	अध्यक्ष

मात्रा भी पोटेंशियल विगत 03 वर्षो में कितना रहा है भी दर्शाया गया है। खनि. अधिकारी, कार्यालय कलेक्टर, (खनिज शाखा) जिला – टीकमगढ ने पत्र क्रमांक 3847 दिनांक 02/09/2022 के माध्यम से ''माइनेवल मिनरल पोटेंशियल'' (घनमीटर में) (60 प्रतिशत टोटल मिनरल पोटेंशियल) लीजवार विवरण की जानकारी भी प्रस्तुत कर दी गई है। तथा मिनरल पोटेंशियल की गणना दर्शाने वाली टेबल में आवश्यक संशोधन कर रेत की 60 प्रतिशत माइनेबल पोटेंशियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है ।

समिति ने जिला सर्वेक्षण रिर्पोटो के प्रस्तुतीकरण एवं परीक्षण में पाया कि रेत की कई स्वीकृत खदानों में 60 प्रतिशत माइनेबल पोटेंशियल तथा विगत् 03 से 05 वर्षो के उत्पादन की मात्रा में 10 गुना से भी अधिक का अंतर है जिसके संदर्भ में उपस्थित खनन् अधिकारियों द्वारा बताया गया कि विगत् 02 से 03 वर्षो में कोविड महामारी, मांग कम होने इत्यादि के कारण कुछ खदानों से रेत की निकासी काफी कम हुई है जिस कारण यह अंतर परिलक्षित हो रहा है। समिति ने चर्चा उपरांत निर्णय लिया कि रेत खनन् के ऐसे प्रकरण जहां 60 प्रतिशत माइनेबल पोटेंशियल तथा विगत् 03 से 05 वर्षो के उत्पादन की मात्रा में 05 गुना या उससे से भी अधिक का अंतर है ऐसे सभी प्रकरणों में पर्यावरणीय अभिस्वीकृती हेतु प्रकरण ऑन लाईन प्रस्तुत करते समय उनकी अनुमोदित खनन् योजना में उस स्थल की सारगर्भित रिप्लेनिशमेंट स्टडी प्रस्तुत की जाये तथा 60 प्रतिशत माइनेबल पोटेंशियल के विरूद्व 05 गुना या उससे से भी अधिक रेत की मात्रा के अंतर का औचित्य दर्शाया जाये ।

समिति की यह भी अनुशंसा है कि जिला स्तर पर जिला सर्वेक्षण रिपोर्ट तैयार करने हेतु गठित जिला समिति की अनुशंसा तथा की गई रिप्लेनिशमेंट स्टडी की जानकारी (जिसके आधार पर जिला सर्वेक्षण रिपोर्ट तैयार की गई हैं) संबंधित जिला खनिज अधिकारी कार्यालय में सुरक्षित रखी जाये । अतः समिति द्वारा सुझाई गई उपरोक्त अनुशांसाओ के साथ टीकमगढ जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) अनुमोदन हेतु विचारार्थ एवं आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघॉत निर्धारण प्राधिकरण की ओर प्रेषित किया जाये।

19. जिला सर्वेक्षण रिपोर्ट, आगर मालवा –

अ. गौण खनिज जिला, आगर मालवा

Mineral	**Other then Sand**
Earlier DSR Discussed	SEAC 587th & 588th Meeting dated 02.08.2022 & 16.08.2022
Approved /or recommend for Updation (if Updation then elaborate issues)	Recommended for DSR Updation (**Minor Minerals**)

592वीं राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति की बैठक
दिनांक 06 सितम्बर 2022

Deliberation in the SEAC SEAC 587th & 588th Meeting dated 02.08.2022 & 16.08.2022	**राज्य स्तरीय मूल्यांकन समिति की 588 वीं बैठक दिनांक 28/08/22** **जिला सर्वेक्षण रिपोर्ट आगर मालवा (अन्य गौण खनिज)– श्री सतीश मिश्रा, प्रभारी खनिज अधिकारी –** जिला सर्वेक्षण रिपोर्ट मे हरित क्षेत्र के विकास हेतु खदानों में वृक्षारोपण की जानकारी नही दी गई है। जानकारी के लीजवार शामिल कर अद्यतन किया जाना चाहिए। साथ ही निर्धारित लक्ष्य के विरूद्व कितना वृक्षारोपण किस वर्ष किया है, उसको भी अंकित किया जाना चाहिए। चर्चा उपरांत समिति की यह अनुशंसा है कि आगर–मालवा जिले जिले की जिला सर्वेक्षण रिपोर्ट जिला सर्वेक्षण रिपोर्ट, गौण खनिज को समिति द्वारा सुझाई गई उपरोक्त अनुशंसाओ के तारतम्य में अद्यतन (अपडेट) किया जाये तथा संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 के अनुसार पुनः प्रस्तुत की जाये। उपस्थित श्री सतीश मिश्रा, प्रभारी खनिज अधिकारी को भी उपरोक्त संदर्भ में समझाईश दी गई तथा पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 के निर्धारित फार्मेट अनुसार जिला सर्वेक्षण रिपोर्ट को अद्यतन कर प्रस्तुत करें ।
Revised DSR received from District Collectorate (Mining)	Received soft copy vide District Collectorate (Mining) Office, Alirajpur , No. 2124 dated 02.09.2022
Hard Copy Soft Copy or both	Hard copy & Soft copy
SEAC meeting dated 06/09/22	1. टेबल– 19 पेज क्र0. 75 से 85 में लीजवार पौधारोपण की जानकारी प्रस्तुत कर दी गयी है। 2. टेबल–3 पेज क्र0. 8–19 मे पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 की अधिसूचना में दी गयी 16 बिन्दुओं के अंतर्गत जानकारी जानकारी प्रस्तुत कर दी है।

आज दिनांक 06/09/22 को जिला सर्वेक्षण रिर्पोटो के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एंव खनिकर्म, विभाग भोपाल से श्री पी.पी. राय, एवं श्री रविंद्र परमार खनिज अधिकारी के साथ उपस्थित रहे ।

खनि. अधिकारी,कार्यालय कलेक्टर,(खनिज शाखा) जिला– आगर मालवा के पत्र क्र0 2124, दिनांक 02/09/22 के माध्यम खदान की जानकारी निर्धारित प्रपत्र मे दे दी गई है, तथा लीज धारकों द्वारा किये गये वृक्षारोपण की जानकारी, संख्या, भी प्रस्तुत कर दी गई है। अतः समिति द्वारा सुझाव गई उपरोक्त अनुशंसाओं के साथ आगर मालवा जिले की जिला सर्वेक्षण रिपोर्ट (अन्य गौण खनिज रेत को छोड़कर) अनुमोदन हेतु विचारार्थ एंव आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये ।

ब. आगर मालवा (रेत खनिज)

Mineral	**Other then Sand**
Earlier DSR Discussed	SEAC 587th & 588th Meeting dated 02.08.2022 & 16.08.2022
Approved /or recommend for Updation (if Updation then elaborate issues)	Recommended for DSR Updation (**Sand Minerals**)
Deliberation in the SEAC 587th & 588th Meeting dated 02.08.2022 & 16.08.2022	**राज्य स्तरीय मूल्यांकन समिति की 587वीं बैठक दिनांक 02/08/22** **जिला सर्वेक्षण रिपोर्ट, जिला – आगर मालवा, म.प्र.– (रेत खनिज)** जिला सर्वेक्षण रिपोर्ट (रेत खनिज) कार्यालय कलेक्टर (खनिज शाखा) जिला–आगर मालवा के पत्र क्रमांक 1926 दिनांक 22/06/22 के माध्यम से नवीन जिला सर्वेक्षण रिपोर्ट–2021, (रेत खनिज) जिला– आगर मालवा राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति को प्रेषित की गई थी, जिसकी प्रतिलिपि राज्य स्तरीय पर्यावरण समाघॉत निर्धारण प्राधिकरण (सिया) को दी गई थी किंतु उक्त जिला सर्वेक्षण रिपोर्ट आज दिनांक तक सेक में अप्राप्त है । उक्त जिला सर्वेक्षण रिपोर्ट (रेत खनिज) जिला–आगर मालवा राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति को ई–मेल के माध्यम से दिनांक 20/07/22 को प्राप्त हुई है । कार्यालय कलेक्टर (खनिज शाखा) जिला–आगर मालवा से प्राप्त में यह उल्लेखित है कि संचालक (प्रशासन एवं खनिकर्म), भोपाल के दिशा–निर्देशानुसार गठित समिति द्वारा उक्त जिला सर्वेक्षण रिपोर्ट के अनुमोदन की अनुशंसा की गई हैं । उक्त नवीन जिला सर्वेक्षण रिपोर्ट–2021 (रेत खनिज), राज्य स्तरीय विशेषज्ञ मूल्यांकन समिति के सदस्यों को दिनांक 27/07/22 (सॉफ्टकॉपी) को प्रेषित की गई थी तथा प्रस्तुतीकरण/चर्चा हेतु राज्य स्तरीय मूल्यांकन समिति की 587 वीं बैठक दिनांक 02/08/2022 में प्रस्तावित की गई। राज्य स्तरीय मूल्यांकन समिति की 587 वीं बैठक दिनांक 02/08/2022 में आगर मालवा जिले की उक्त नवीन जिला सर्वेक्षण रिपोर्ट–2021 (रेत खनिज), पर चर्चा की गई। चर्चा के दौरान खनिज विभाग, कटनी की ओर से श्री सतीश मिश्रा, प्रभारी खनिज अधिकारी ऑनलाईन उपस्थित हुए जिसमें पाया गया कि :– 1. प्रस्तुत जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 में निर्धारित फार्मेट (पेज–56 एवं 57) अनुसार जानकारियॉ वांछित तालिका में नहीं दी गई है। 2. उक्त जिला सर्वेक्षण के अवलोकन से यह ज्ञात नहीं होता कि इसे आमजन के सुझाव आंमत्रित करने बाबत् उसे जिले के पोर्टल पर नियत अवधि के लिए कब अपलोड किया गया तथा उक्त समयावधि में कोई आपत्ति/सुझाव प्राप्त होने पर उसका निराकरण किस प्रकार किया गया । 3. इसी प्रकार इस जिला सर्वेक्षण रिपोर्ट में लीजवार/नदीवार रेत की उपलब्धता दर्शाने वाली तालिका में विवरण नहीं दिया गया हैं । 4. पेज नं. 45 पर प्रस्तुत रेनफॉल की जानकारी अस्पष्ट/अपठनीय है । 5. तालिका मे ना ही नदी–वार लीजों की सूची, स्वीकृत क्षेत्र, स्वीकृत माईनिंग, गहराई के साथ उपलब्ध रेत की मात्रा एंव तदुपरांत उत्पादन, खनिज योग्य खनिज क्षमता, मात्रा की 60% मात्रा को दर्शाया जाना चाहिये। अतएव इस तालिका को पुनरीक्षित किया जाना प्रस्तावित है। 6. प्रस्तुत जिला सर्वेक्षण रिपोर्ट में विगत 03 वर्षो में उत्खनित रेत की खदानवार मात्रा भी दर्शाई जाये, जिससे यह ज्ञात हो सके कि उस स्थल पर खदान का मिनरल पोटेंशियल विगत 03 वर्षो में कितना रहा है । 7. इसी प्रकार जिले में स्वीकृत/प्रस्तावित खदानों को को–आर्डिनेट के अनुसार डिजिटाईज मेप

	(आर्क व्यू / गूगल अर्थ कम्पेटेवल – सी.डी.में) भी संलग्न किया जाये ताकि पर्यावरण अभिस्वीकृति के समय खदानों की सही स्थिति ज्ञात करने में तथा 500 मीटर के अंदर स्थित अन्य स्वीकृत खदानों की जानकारी प्राप्त करने में सुविधा हो । 8. प्रायः देखा जा रहा है जिला सर्वेक्षण रिपोर्ट में रेत निर्माण होने की भू–वैज्ञानिक विधि की सामान्य जानकारी दी जाती है जो सभी जिला सर्वेक्षण रिपोर्टो में एक जैसी ही है जिसके स्थान पर जिलें में मिलने वाली नदी के अपस्ट्रीम क्षेत्र में मिलने वाली चट्टानों का (रॉक फार्मेशन) का समावेश होना चाहिए । 9. जिला सर्वेक्षण रिपोर्ट में प्रदर्शित नक्शों में जो भी फीचर्स दिखाया जाता है उसको संबंधित नक्शें के लीजेंड में भी दिखाया जाना चाहिए एवं नक्शों का स्केल ऐसा होना चाहिए कि समस्त फीचर स्पष्ट दिख सके । यदि ए–4 साईज में नक्शें नहीं आ पा रहे हो तो ए–3 साईज में नक्शों को बनाना चाहिए। 10. समिति ने संबंधित जिलों के खनिज अधिकारियों को निर्देशित करती है कि इस बात का भी ध्यान रखा जाये कि नदियों में किसी स्थान पर मछलियों / कछुआ /घड़ियाल / मगरमच्छ आदि जलचरों का ब्रीडिंग ग्राउण्ड तो नहीं है यदि ऐसा कोई स्थानीय संवेदनशीन क्षेत्र दृष्टिगत होता है तो खनन् क्षेत्र की सीमा को 60 प्रतिशत से कम कर 50 प्रतिशत तक भी सीमित किया जा सकता है । 11. समिति ने यह भी सुझाव दिया कि सभी खनिज अधिकारी अपनी साईट विजिट के दौरान खदान द्वारा किये जा रहे पर्यावरणीय एवं सामाजिक पहलुओं का भी अवलोकन करें एवं यदि कोई पर्यावरणीय संवेदनशीलता दृष्टिगत हो, जिस पर ध्यान दिया जाना आवश्यक हो तो संबंधित तथ्यों से राज्य स्तरीय पर्यावरण समाघॉत निर्धारिण प्राधिकरण को उचित कार्यवाही हेतु अवगत करायें। चर्चा उपरांत समिति की यह अनुशंसा है कि आगर मालवा जिले की जिला सर्वेक्षण रिपोर्ट को समिति द्वारा सुझाई गई उपरोक्त अनुशंसाओ के तारतम्य में अद्यतन (अपडेट) किया जाये तथा संशोधित जिला सर्वेक्षण रिपोर्ट पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 के अनुसार पुनः प्रस्तुत की जाये । ऑन लाईन उपस्थित श्री सतीश मिश्रा प्रभारी खनिज अधिकारी को भी उपरोक्त संदर्भ में समझाईश दी गई तथा पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय, नई दिल्ली द्वारा जारी अधिसूचना दिनांक 25/07/2018 के निर्धारित फार्मेट अनुसार जिला सर्वेक्षण रिपोर्ट को अद्यतन कर लें । तद्नुसार प्रकरण आगामी कार्यवाही राज्य स्तरीय पर्यावरण समाघॉत निर्धारण प्राधिकरण की ओर अग्रिम कार्यवाही हेतु प्रेषित है ।
Revised DSR received from District Collectorate (Mining)	Received soft copy vide District Collectorate (Mining) Office, Agar Malwa , No. 2126 dated 02.09.2022
Hard Copy Soft Copy or both	Hard copy & Soft copy
SEAC meeting dated 06/09/22	1. तालिका 10 पेज क्र0. 24 में मिनरल पोटेंशियल दिया गया है जो कि मी. टन में भी दर्शाया गया है । 2. उपरोक्त तालिका में लीजवार विगत 03 वर्षो का रेत का उत्पादन भी दर्शाया गया है। 3. खदानों के विवरणों (तालिका क्र0. 10) पेज 24 के सरल क्र0. 2, 3, 5, 7, 8, एंव 10 एंव 11 जिसमें विगत वर्षो में उत्पादन निरंक दर्शाया है इसके टीप मे उल्लेख किया है, कि कुल निलामी लीजों की नीलामी नही हुयी है तथा कुछ खदानों को निरस्त किया गया है जिससे इन व ों में उत्पादन नही हुआ है।

आज दिनांक 06/09/22 को जिला सर्वेक्षण रिर्पोटो के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एंव खनिकर्म, विभाग भोपाल से श्री पी.पी. राय, एवं श्री श्री सतीश मिश्रा, प्रभारी खनिज अधिकारी के साथ उपस्थित रहे ।

खनि. अधिकारी,कार्यालय कलेक्टर,(खनिज शाखा) जिला– आगर मालवा के पत्र क0 2126, दिनांक 02/09/22 के माध्यम समिनरल पोटेंशियल की गणना में आवश्यक संशोधन कर रेत की 60 प्रतिशत माइनेबल पोटेंशियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है मिनरल पोटेंशियल की गणना दर्शाने वाली टेबल में आवश्यक संशोधन कर रेत की 60 प्रतिशत माइनेबल पोटेंशियल (रेत खनन हेतु) मीट्रिक टन यूनिट में प्रस्तुत कर दी गई है।

समिति ने जिला सर्वेक्षण रिर्पोटो के प्रस्तुतीकरण एवं परीक्षण में पाया कि रेत की कई स्वीकृत खदानों में 60 प्रतिशत माइनेबल पोटेंशियल तथा विगत् 03 से 05 वर्षो के उत्पादन की मात्रा में 10 गुना से भी अधिक का अंतर है जिसके संदर्भ में उपस्थित खनन् अधिकारियों द्वारा बताया गया कि विगत् 02 से 03 वर्षो में कोविड महामारी, मांग कम होने इत्यादि के कारण कुछ खदानों से रेत की निकासी काफी कम हुई है जिस कारण यह अंतर परिलक्षित हो रहा है। समिति ने चर्चा उपरांत निर्णय लिया कि रेत खनन् के ऐसे प्रकरण जहां 60 प्रतिशत माइनेबल पोटेंशियल तथा विगत् 03 से 05 वर्षो के उत्पादन की मात्रा में 05 गुना या उससे से भी अधिक का अंतर है ऐसे सभी प्रकरणों में पर्यावरणीय अभिस्वीकृती हेतु प्रकरण ऑन लाईन प्रस्तुत करते समय उनकी अनुमोदित खनन् योजना में उस स्थल की सारगर्भित रिप्लेनिशमेंट स्टडी प्रस्तुत की जाये तथा 60 प्रतिशत माइनेबल पोटेंशियल के विरूद्व 05 गुना या उससे से भी अधिक रेत की मात्रा के अंतर का औचित्य दर्शाया जाये ।

समिति की यह भी अनुशंसा है कि जिला स्तर पर जिला सर्वेक्षण रिपोर्ट तैयार करने हेतु गठित जिला समिति की अनुशंसा तथा की गई रिप्लेनिशमेंट स्टडी की जानकारी (जिसके आधार पर जिला सर्वेक्षण रिपोर्ट तैयार की गई हैं) संबंधित जिला खनिज अधिकारी कार्यालय में सुरक्षित रखी जाये । अतः समिति द्वारा सुझाव गई उपरोक्त अनुशंसाओं के साथ आगर मालवा जिले की जिला सर्वेक्षण रिपोर्ट (रेत खनिज) अनुमोदन हेतु विचारार्थ एंव आगामी कार्यवाही हेतु राज्य स्तरीय पर्यावरण समाघात निर्धारण प्राधिकरण की ओर प्रेषित की जाये ।

20. जिला सर्वेक्षण रिपोर्ट जिला– कटनी – रेत खनिज

आज दिनांक 06/09/22 को जिला सर्वेक्षण रिर्पोटो के प्रस्तुतीकरण के दौरान संचानालय, भौमिकी एंव खनिकर्म, विभाग भोपाल से श्री पी.पी. राय एवं श्री श्री संतोष सिंह, खनिज अधिकारी। उपस्थित रहे । कटनी जिले की नवीन जिला सर्वेक्षण रिपोर्ट रेत खनिज हेतु प्रस्तुत की गई, जिसमें पाया गया कि :–

1. रिपोर्ट में रेत खदानों के अंक्षाश एंव देशांश नही दिये गये है।
2. प्री–मानसून एवं पोस्ट–मानसून के डाटा प्रस्तुत नहीं किए गए ।