



SEIAA File No. SIA/OR/MIN/426984/2023

Subject: Proposal of Collector & DM, Balasore for approval of District Survey Report for Mining of Sand, Stone, Morrum, Brick Earth located in District-Balasore, State-Odisha for the period 2023-2028 - reg.

This has reference to your online proposal No. SIA/OR/MIN/426984/2023 dated 24.04.2023, submitted to SEIAA, Odisha for approval of District Survey Report of District Balasore for Mining of Sand, Stone, Morrum, Brick Earth for the period 2023-2028 located in District-Balasore, State-Odisha in terms of the provisions of the Environment Impact Assessment (EIA) Notification, 2006 under the Environment (Protection) Act, 1986 and subsequent amendments thereto, i.e. the SSMMG-2016 and EMGSM-2020 and in pursuance of MoEF & CC, GoI Notification dated 15.01.2016 & 25.07.2018.

2. Proposal in Brief:-

Proposal No.	SIA/OR/MIN/426984/2023
Date of Application	24.04.2023
File No.	SIA/OR/MIN-DSR-BLS/426984/2023
Project	DSR of Minor Mineral
Category	Minor Minerals
Name of the Project	Proposal of Collector & District Magistrate, Balasore for approval of District Survey Report of District Balasore for Mining of Sand, Stone, Morrum, Brick Earth for the period 2023-2028 located in District-Balasore, State-Odisha.
Name of the company/Organization	Applicant: Collector & District Magistrate, Balasore
Location of Project	District-Balasore, State-Odisha

3. District Survey Report (DSR) Details: The highlights of the DSR as ascertained from the application as submitted by PP and as revealed from proceedings/discussion held during the meeting of SEAC/SEIAA, are given as under.

- (i) This is a proposal for approval of District Survey Report (DSR) of District Balasore for Mining of Sand, Stone, Morrum, Brick Earth located in District-Balasore, State-Odisha for a period of 5 years i.e from 2023-2028 .

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- (ii) Project in Brief: The District Survey Report (DSR) has identified 238 Nos. of sairat source with quantification and feasibility for mining considering various environmental proximity of protected area, infrastructure, forest, important structures, habitation, prohibited area etc. The detailed list of sairat sources in various Tahasil is mentioned below.

List of Sairat Sources of Balasore District at a glance

Sl. No	Name of the Tahasil	Sand	Stone	Brick Earth / Soil	Morrum	Grand Total
1.	Remuna	10		05		15
2.	Jaleswar	19		02	05	26
3.	Basta	07		03		10
4.	Baliapal	02				02
5.	Nilgiri	08	09	03	02	22
6.	Khaira		97			97
7.	Soro		63			63
8.	Aupada				02	02
9.	Balasore	01				01
		47	169	13	09	238

4. The Hon'ble Supreme Court in its Order dated 10.11.2021 in Civil appeal No-3661-3662 of 2020 in the matter of State of Bihar & others Vs Pawan Kumar & Others have directed that the draft DSRs shall be prepared by the Sub-Divisional Magistrate, Officers from Irrigation Department, State Pollution Control Board or Committee, Forest Department, Geological or mining officer. The same shall be prepared by undertaking site visits and also by using modern technology. The draft DSRs prepared shall be forwarded by the District Magistrate of the concerned District for examination and evaluation by the SEAC. After examine, the report shall be forwarded to the SEIAA and the SEIAA will thereafter consider the grant of approval to such DSRs. The appraisal thereof by SEAC & SEIAA should ensure that a strict adherence to the procedure and parameters laid down in the MoEF&CC Policy of January 2020 should be followed.
5. Further in a specific case, the Hon'ble NGT, EZ Bench Kolkata in its order dated 08.02.2022 in OA No. 63/2020/EZ in the matter of Haripada Manna Vs District Collect, Balasore has directed the State Environment Impact Assessment Authority (SEIAA), Odisha in coordination with State Expert Appraisal Committee (SEAC), Odisha, to examine the DSR for Balasore district, Odisha as submitted by the Additional District Magistrate, Balasore, vide his letter no. 449 dated 15.01.2022 & the Environmental Scientist, SEIAA, Odisha vide letter no. 3943/SEIAA dated 28.01.2022 & pass appropriate orders in accordance with law within a period of one month.

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6. The draft DSR of Balasore for Sand, Stone, Morrum, Brick Earth was examined by SEAC in its meeting held on 13.05.2022, 20.08.2022, 14.10.2022 & 12.04.2023. The SEAC has recommended the DSR with the following observations :-

General:

- This DSR is stated to have been examined by DEIAA, but the agency/ expert (s) prepared the same is not made known.
- It is stated to be an Interim report.
- In fact, it needs to be prepared by agency accredited by QCI/NABET
- This report has no back up any scientific basis.
- However, this DSR contains 04 minor minerals namely, Morrum, Brick earth / ordinary soil, road metals and river sand.
- The report contains information for three financial years, 2016-17, 2017-18 & 2018-19 and not the latest years like 2019-20 to 2021 2022.

DSR for Morrum:

- 12 Tahasils have been identified through field observations and no quarry lease has been granted.
- No Production and hence, no royalty / revenue in these three years.
- Information of Geological reserve, mineable reserve, location of the mining lease etc. are stated to be not applicable/ not available.

DSR for Brick Earth / Ordinary Soil:

- No quarry lease has been granted and no royalty/ revenue received during the above three years.
- production in these three years.
- It is stated that mineral reserve of brick earth will be assessed after detail study or grant of potential area.
- Potential sources of Brick manufacturers in respect of 4 Tahasils covering 13 villages having 23 manufacturers have been mentioned.

DSR for Road Metals:

- Royalty/ Revenue received from 3 Tahasils for the year 2016-17 2018-19 with corresponding production figures are furnished including clusters.
- It is NIL in case of rest of the Tahasils.

DSR for River Sand:

- Statistics on Royalty/ Revenue received from 5 Tahasils out of 12 stated to have been identified are available and so also corresponding volumetric production quantity.

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- It is stated that process of deposition of sediments is moderate/ slow and volume of deposition in these above 3 years is Blank.
 - No replenishment study is found to be carried out and no recovery factor is determined.
 - No mention about MOEF guidelines 2020 and therefore, compliance of the same on the rivers is absent in any of the important rivers like Subarnar Rekha, Budha Balanga, Jalaka, Sona and Kasbans.
 - Replenishment Study Methodology decided by SEAC may be adopted.
7. The DSR Balasore was deliberated by SEIAA in its meeting held on 25.05.2022 and 17.10.2022. The Authority observed that the DSR has not been prepared in accordance with the MoEF & CC Guidelines in the matter. Further, SEIAA in its meeting held on 16.12.2022 directed that the draft DSR be placed in public domain inviting comments / suggestions and the comments/suggestions are required to be considered and incorporated as deemed appropriate.
8. The final DSR of Balasore was submitted to SEIAA on 05.04.2023. Since, all approval of SEIAA is now carried out through the online Parivesh portal, the Authority decided to process the DSR through online Parivesh portal of MoEF & CC,GoI.
9. The matter was examined in the State Environment Impact Assessment Authority (SEIAA), Odisha in its 115th meeting held on 24.04.2023, with recommendation of SEAC for approval of DSRs for Sand, Stone, Morrum and Brick Earth of Balasore District in accordance with the EIA Notification, 2006 and further amendments thereto ensuring strict adherence to terms of the SSMMG-2016 and EMGSM-2020 of MoEF & CC, Govt. of India. The Authority observed the following:
- (i) The District Survey Report has been prepared afresh and it has been signed by the Collector & District Magistrate, Balasore along with members of designated Sub-Committee consisting of Sub-Divisional Magistrate and District Level Officers from Irrigation Department, State Pollution Control Board, Forest Department and Mining Department.
 - (ii) A certificate has been endorsed on the body of DSR for each category of mineral stating that a survey has been carried out by the District Environment Impact Assessment Authority (DEIAA) with the assistance of Geology Department Irrigation Department, Forest Department, Public Works Department, Ground Water Boards, Remote Sensing Department in the District by site visit using Modern Technology and the recommendation are made on the suitability of site for mining or prohibition thereof.

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STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA

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statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment (Protection) Act, 1986)

- (iii) The District Administration had requested the I & PR Department, Government of Odisha for publication of advertisement in a daily local and National News paper seeking comments of the General Public on the list of Mining Lease included in DSR. The I&PR Department has given advertisement on 01.03.2023 vide advertisement No. 24167IPR. The Draft DSR has been placed in the public domain i.e. in the District web portal for 30 days from 01.03.2023 to 30.03.2023 as well as in local newspaper "Samaj" dated 03.03.2023.
- (iv) The comments received have been considered and incorporated as deemed appropriate. Further, the ADM, Balasore, duly authorized by Collector & District Magistrate, Balasore held a public consultation on 31.03.2023 at 4.00 PM in the Office Chamber of the ADM, Revenue, Balasore. The views expressed by the public were heard before finalizing the DSR.
- (v) The mandatory Replenishment Study report is under progress and ADM, Balasore informed that one more season will be required for completion of study, after which it will be incorporated in the DSR.
- (vi) The Authority also noted that the total number of sairat sources were 249 nos. in the last DSR & the present DSR 238 nos. of sairat sources have been identified after a survey has been conducted by the DEIAA with the assistance of Irrigation Deptt, Forest Deptt, PWD, Mining Deptt, Ground Water Board & Remote Sensing Deptt. The DSR has been duly signed by the concerned District Level Officers.
- 10. Approval is conveyed under the provision of EIA Notification, 2006, as amended from time to time, for the DSR of Balasore comprising of 238 nos. of sairat sources for a period of 5 years (2023-2028) with the following conditions.**
- (i) The DSR shall form the basis for application for environmental clearance, preparation of reports & appraisal of projects.
- (ii) The DSR, Balasore shall have a validity of five years from the date of issue of this order. Report shall be updated once every 5 years.
- (iii) The final list of potential mining leases (existing & proposed) along with lease details, lease area, cluster or no cluster, total mineral reserve and maximum annual extractable limit for River Sand, Road Metal /Building Stone/ Black Stone, Brick Earth/Ordinary Soil and Morrum is enclosed at Annexure-I,II,III and IV respectively. Any alteration/modification in the parameters mentioned in the Annexures shall require prior approval of SEIAA, Odisha.
- (iv) The approval is granted on the basis of undertaking that the annual replenishment study shall be completed within a period of one year. The approval of DSR will be liable for revocation if no replenishment study is submitted by 31st May 2024.

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STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY, ODISHA
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statutory body constituted by Ministry of Environment, Forest & Climate Change under Environment
(Protection) Act, 1986

- (v) The Mining Plan shall be prepared for the sairat sources in accordance with the EMGSM-2020 and approved by Competent Authority before seeking Environmental Clearance.
- (vi) The District Authority shall put in place a monitoring mechanism as prescribed in Para 9.4 of the EMGSM-2020.
- (vii) The SEIAA Odisha reserve the right to alter / modify the above conditions or stipulate any further condition in the interest of environment protection.
11. This approval is subject to orders/judgment of Hon'ble Supreme Court of India, Hon'ble High Court and Hon'ble NGT as may be applicable.
12. Any appeal against this approval shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under section 16 of the National Green Tribunal Act, 2010.

Yours faithfully,


26/04/23
Member Secretary

Copy to

1. **Additional Chief Secretary**, Forests & Environment Dept., Government of Odisha for information.
2. **Member Secretary**, State Pollution Control Board, Odisha, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-8, Bhubaneswar for information.
3. **Additional Principal Conservator** of Forests, Integrated Regional Office (IRO), Ministry of Environment & Forests, A-31, Chandrasekharpur, Bhubaneswar for information.
4. **Collector, District Magistrate**, Balasore, Dist-Balasore, for kind information and necessary action.
5. **Secretary**, SEAC, Paribesh Bhawan, A/118, Nilakantha Nagar, Unit-VIII, Bhubaneswar for kind information.
6. Guard file for record/Website/Parivesh Portal.

SM


26/04/23
Member Secretary



Annexure-I

Minor Mineral Sources under Sadar Sub-Division.

Sand sources under Jaleswar Tahasil

Sl No	Name of the Teshil	Name of the Source	Type of Quarry	Mouza	Khata No	Plot No	Area	
1.	Jaleswar	Chalanti Sand Source	sand	Chalantai	384	738	Ac14.00 dec.	Govt.
2.	Jaleswar	Sikharpur Sand Source	sand	Sikharpur	496	1910, 1900	Ac9.00 dec. Ac3.00 dec	Govt.
3.	Jaleswar	River Block Sand Source (Ka)	sand	River Block	175	01	Ac14.00 dec	Govt.
4.	Jaleswar	River Block Sand Source (Kha)	sand	River Block	175	01	Ac13.00 dec	Govt.
5.	Jaleswar	Balikbad Sand Source	sand	Balikband	399	49	Ac14.85 dec	Govt.
6.	Jaleswar	Praharajpur Sand Source (ka)	sand	Praharajpur	466	1923	Ac13.00 dec	Govt.
7.	Jaleswar	Gobarghata Sand Source nearest to Dakhinapraharajpur	sand	Gobarghata	1414	3236	Ac17.50 dec	Govt.
8.	Jaleswar	Makrampur sand source	sand	Makrampur	01	06	Ac15.00 dec	Govt.
9.	Jaleswar	Sekhsarai sand source (Kha)	sand	Sekhsarai	142	02	Ac15.00 dec	Govt.
10.	Jaleswar	Sekhsarai sand source (Ka)	sand	Sekhsarai	142	02	Ac14.00 dec	Govt.
11.	Jaleswar	Mankidia Sand Source (Ka)	sand	Mankidia	818	01	Ac20.00 dec	Govt.
12.	Jaleswar	Bilaspur Sand Source	sand	Bilaspur	53	120	Ac80.20 dec	Govt.
13.	Jaleswar	Praharajpur sand source (Kha)	sand	Praharajpur	466	1923	Ac15.00 dec	Govt.
14.	Jaleswar	Mankidia Sand Source (Kha)	sand	Mankidia	818	1677	Ac.40.00 dec	Govt.
15.	Jaleswar	Mankidia Sand Source (Ga)	Sand	Mankidia	818	1677	Ac.35.00 dec	Govt.
16.	Jaleswar	Rajnagar Sand Source	Sand	Rajnagar	377	1295/1300	Ac.13.55 dec	Govt.
17.	Jaleswar	Gobardhanpur sand source	sand	Gobardhanpur	358	1094	Ac12.00 dec	Govt.
18.	Jaleswar	Chandibasti sand source	sand	Chormara	692	182	Ac10.00 dec	Govt.
19.	Jaleswar	Baliapal sand source	sand	Baliapal	578	2949	Ac12.00 dec	Govt.
20.	Basta	Benapura-II	Sand	Benapura	152	285	Ac14.52 dec	Govt.
21.	Basta	Dhitpura	Sand	Dhitpura	97	214	Ac12.35 dec	Govt.
22.	Basta	Kadarayan	Sand	Kadarayan	257	01	Ac12.35 dec	Govt.



23.	Basta	Devog	Sand	Devog	392	1178	Ac12.35 dec	Govt.
24.	Basta	Ambakuruchi	Sand	Ambakuruchi	304	1450	Ac7.40 dec	Govt.
25.	Basta	Benapura-I	Sand	Benapura	152	282 284	Ac3.72 dec Ac9.10 dec	Govt.
26.	Basta	MathaniPunsita	Sand	Mathani Punsita	143 227	37 25	Ac0.72 dec Ac2.36 dec	Govt.
27.	Baliapal	Badhapal Sand Source	Sand	Badhapal	717 & 718	973& 973/2548 989, 955, 956, 969, 990,1193, 11, 94, 1198, 1199, 1200, 1201, 1205, 1498,	Ac8.36 dec	Govt.
28.	Baliapal	Palabegunia Sand Sources	Sand	Palabegunia	470	270, 377, 378, 786, 793, 799,	Ac8.88 dec	Govt.
29.	Balsore	Kasaba Dahapada sand source	sand		653 143	209,210, 1429, 1483, 837	Ac101.35 dec	Govt.
30.	Remuna	Purukhi Sand Source	Sand	Purukhi	420	1340	Ac12.30 dec	Govt.
31.	Remuna	Sahupada&DumudaSand source	Sand	Sahupada& Dumuda	223 281	237, 238, 239, 240& 15	Ac7.50 dec Ac4.85 dec	Govt.
32.	Remuna	Ambulakuda	Sand	Ambulakuda	133	531	Ac12.30 dec	Govt.
33.	Remuna	Baitabanka	Sand	Ghungi	261	338 440	Ac12.20 dec	Govt.
34.	Remuna	Kathasangada-I	Sand	Kathasangad a and Haladia	286 458	123&145 1952	Ac9.75 dec	Govt.
35.	Remuna	Kathasangada-II	Sand	Kathasangad a	286	106	Ac2.60 dec	Govt.
36.	Remuna	Udambar	Sand	Udambar	211	01	Ac8.20 dec	Govt.
37.	Remuna	Makanda	Sand	Makanda	337	691, 692	Ac12.22 dec	Govt.
38.	Remuna	Hatiagand, Mukundapur& Patripal	Sand	Hatiagand, Mukundapu r &Patripal	313, 197 &69	223 & 1121, 3, 1	Ac2.75 dec Ac4.25 dec Ac1.35 dec Ac4.00 dec	Govt.
39.	Remuna	GambariaRudragopalpur	Sand	Gambharia	430, 236	574, 722,	Ac35.93 dec	Govt.



		SamilNaharapatna		Rudragopal purSamilNa harapatna		1 &510	Ac59.06 dec	
40.	Nilgiri	Pundal-I sand bed	sand	Pundal	556	1347	Ac12.35 dec.	Govt.
41.	Nilgiri	Pundal-II sand bed	sand	Pundal	556	1347	Ac 3.40 dec.	Govt.
42.	Nilgiri	Dumagandira- Laichhanpur sand source	sand	Laichhanpur	157 155	385 36	Ac12.35 dec	Govt.
43.	Nilgiri	Prtap pur sand bed	sand	Ajodhya	814	388	Ac12.25 dec	Govt.
44.	Nilgiri	Baincha-Naranpur-1 sand source	sand	Baincha- Naranpur	266	383, 384	Ac12.35 dec	Govt.
45.	Nilgiri	Balipal sand source	sand	Balipal	156	7, 495	Ac12.30 dec	Govt.
46.	Nilgiri	Ajodhya sand bed	sand	Ajodhya	814	1412	Ac12.25 dec	Govt.
47.	Nilgiri	Baincha Naranpur-3 sand bed	sand	Baincha Naranpur	266	516	Ac8.70 dec	Govt.



Annexure-II

Minor Mineral Sources under Sadar Sub-Division.

Stone Quarries under Soro Tahasil

Sl No	Name of the Teshil	Name of the Source	Type of Quarry	Mouza	Khata No	Plot No	Area	
1.	Soro	Mahumuhan Stone Quarry No-4	Stone	Mahumuhan	744	297	A2.00	Govt.
2.	Soro	Mahumuhan Stone Quarry No-6	Stone	Mahumuhan	746	297	A 0.50	
3.	Soro	Khanjamahal Sone Quarry No- 34	Stone	Khanjamahal	144	161	A 1.50	Govt.
4.	Soro	Khanjamahal Sone Quarry No- 35	Stone	Khanjamahal	144	161	A 1.50	Govt.
5.	Soro	Khanjamahal Sone Quarry No- 36	Stone	Khanjamahal	144	161	Ac 1.00	Govt.
6.	Soro	Khanjamahal Sone Quarry No- 37	Stone	Khanjamahal	144	161	A 2.00	Govt.
7.	Soro	Khanjamahal Sone Quarry No- 38	Stone	Khanjamahal	144	161	Ac 1.00	Govt.
8.	Soro	Khanjamahal Sone Quarry No- 39	Stone	Khanjamahal	144	161	A 2.00	Govt.
9.	Soro	Khanjamahal Sone Quarry No- 41	Stone	Khanjamahal	144	161	A 2.50	Govt.
10.	Soro	Khanjamahal Sone Quarry No-42	Stone	Khanjamahal	144	161	A 2.50	Govt.
11.	Soro	Khanjamahal Sone Quarry No-43	Stone	Khanjamahal	144	160	A 1.00	Govt.
12.	Soro	Khanjamahal Sone Quarry No-44	Stone	Khanjamahal	144	168	A2.00	Govt.
13.	Soro	Khanjamahal Sone Quarry No-45	Stone	Khanjamahal	144	168	A 2.00	Govt.
14.	Soro	Khanjamahal Sone Quarry No-46	Stone	Khanjamahal	144	168	A 2.00	Govt.
15.	Soro	Khanjamahal Sone Quarry No-47	Stone	Khanjamahal	144	168	A0 .50	Govt.
16.	Soro	Khanjamahal Sone Quarry No-48	Stone	Khanjamahal	144	168	A 2.00	Govt.
17.	Soro	Khanjamahal Sone Quarry No-49	Stone	Khanjamahal	144	168	A2.00	Govt.
18.	Soro	Khanjamahal Sone Quarry No- 50	Stone	Khanjamahal	144	168	A 0.50	Govt.
19.	Soro	Khanjamahal Sone Quarry No- 51	Stone	Khanjamahal	144	168	A 2.50	Govt.
20.	Soro	Khanjamahal Sone Quarry No- 55	Stone	Khanjamahal	144	264	A 3.00	Govt.
21.	Soro	Khanjamahal Sone Quarry No- 56	Stone	Khanjamahal	144	264	A 2.00	Govt.
22.	Soro	Khanjamahal Sone Quarry No- 57	Stone	Khanjamahal	144	263	A 3.00	Govt.
23.	Soro	Khanjamahal Sone Quarry No- 59	Stone	Khanjamahal	144	263	A 1.00	Govt.
24.	Soro	Khanjamahal Sone Quarry No- 60	Stone	Khanjamahal	144	263	A 0.50	Govt.
25.	Soro	Khanjamahal Sone Quarry No- 66	Stone	Khanjamahal	144	318	A 2.00	Govt.
26.	Soro	Khanjamahal Sone Quarry No- 67	Stone	Khanjamahal	144	318	A 2.00	Govt.
27.	Soro	Khanjamahal Sone Quarry No- 68	Stone	Khanjamahal	144	318	A 2.00	Govt.
28.	Soro	Khanjamahal Sone Quarry No- 71	Stone	Khanjamahal	144	287 & 266	A 1.50	Govt.



29.	Soro	Khanjamahal Sone Quarry No- 72	Stone	Khanjamahal	144	287 & 266	A 1.50	Govt.
30.	Soro	Khanjamahal Sone Quarry No- 73	Stone	Khanjamahal	144	266	A 1.50	Govt.
31.	Soro	Khanjamahal Sone Quarry No- 74	Stone	Khanjamahal	144	266	A 2.00	Govt.
32.	Soro	Khanjamahal Sone Quarry No- 75	Stone	Khanjamahal	144	266	A 1.50	Govt.
33.	Soro	Khanjamahal Sone Quarry No- 76	Stone	Khanjamahal	144	266	A 2.50	Govt.
34.	Soro	Khanjamahal Sone Quarry No- 79	Stone	Khanjamahal	144	266	A 1.20	Govt.
35.	Soro	Khanjamahal Sone Quarry No- 80	Stone	Khanjamahal	144	266	A 1.00	Govt.
36.	Soro	Khanjamahal Sone Quarry No- 81	Stone	Khanjamahal	144	266	A 2.00	Govt.
37.	Soro	Khanjamahal Sone Quarry No- 82	Stone	Khanjamahal	144	266	A 2.50	Govt.
38.	Soro	Khanjamahal Sone Quarry No- 83	Stone	Khanjamahal	144	265	A 2.50	Govt.
39.	Soro	Khanjamahal Sone Quarry No- 84	Stone	Khanjamahal	144	265	A 2.50	Govt.
40.	Soro	Khanjamahal Sone Quarry No- 85	Stone	Khanjamahal	144	265	A 2.00	Govt.
41.	Soro	Khanjamahal Sone Quarry No- 86	Stone	Khanjamahal	144	265 & 263	A 2.00	Govt.
42.	Soro	Khanjamahal Sone Quarry No- 87	Stone	Khanjamahal	144	263	A 2.50	Govt.
43.	Soro	Khanjamahal Sone Quarry No- 88	Stone	Khanjamahal	144	263	A 2.50	Govt.
44.	Soro	Khanjamahal Sone Quarry No- 89	Stone	Khanjamahal	144	263	A 1.50	Govt.
45.	Soro	Khanjamahal Sone Quarry No- 90	Stone	Khanjamahal	144	263	A 1.50	Govt.
46.	Soro	Khanjamahal Sone Quarry No- 91	Stone	Khanjamahal	144	263	A 2.00	Govt.
47.	Soro	Khanjamahal Sone Quarry No- 96	Stone	Khanjamahal	144	167	A2.50	Govt.
48.	Soro	Khanjamahal Sone Quarry No- 97	Stone	Khanjamahal	144	264	Ac.5.00 dec	Govt.
49.	Soro	Quarry No-1	Stone Quarry	Mahumuhan & Khanjamahala	144	161 165	Ac3.45 dec Ac6.60 dec	Govt.
50.	Soro	Quarry No-2	Stone Quarry	Mahumuhan & Khanjamahala	144	161 165 167 166	Ac2.27 dec Ac5.84 dec Ac0.50 dec Ac1.52 dec	Govt.
51.	Soro	Quarry No-3	Stone Quarry	Mahumuhan & Khanjamahala	144	167 166	Ac2.55 dec Ac7.48 dec	Govt.
52.	Soro	Quarry No-4	Stone Quarry	Mahumuhan & Khanjamahala	144	167 166	Ac2.99 dec Ac6.95 dec	Govt.
53.	Soro	Quarry No-5	Stone Quarry	Mahumuhan & Khanjamahala	144	165 164	Ac3.87 dec Ac6.26 dec	Govt.
54.	Soro	Quarry No-6	Stone Quarry	Mahumuhan & Khanjamahala	144	165 164 166 266	Ac2.07 dec Ac2.07 dec Ac3.88 dec Ac1.90 dec	Govt.
55.	Soro	Quarry No-7	Stone Quarry	Mahumuhan & Khanjamahala	144	166 266	Ac9.53 dec Ac0.47 dec	Govt.



				la				
56.	Soro	Quarry No-8	Stone Quarry	Mahumuhan &Khanjamahala	144	166 265 264	Ac3.84 dec Ac4.17 dec Ac1.71 dec	Govt.
57.	Soro	Quarry No-9	Stone Quarry	Mahumuhan &Khanjamahala	144	265 264	Ac5.67 dec Ac6.39 dec	Govt.
58.	Soro	Quarry No-10	Stone Quarry	Mahumuhan &Khanjamahala	144	264 263	Ac9.37 dec Ac1.82 dec	Govt.
59.	Soro	Quarry No-11	Stone Quarry	Mahumuhan &Khanjamahala	144	164 318 266 287	Ac2.42 dec Ac0.95 dec Ac4.59 dec Ac0.47 dec	Govt.
60.	Soro	Quarry No-12	Stone Quarry	Mahumuhan &Khanjamahala	144	266 287	Ac9.91 dec Ac0.09 dec	Govt.
61.	Soro	Quarry No-13	Stone Quarry	Mahumuhan &Khanjamahala	144	166 266 287	Ac0.97 dec Ac8.87 dec Ac0.17 dec	Govt.
62.	Soro	Quarry No-14	Stone Quarry	Mahumuhan &Khanjamahala	144	166 265 266	Ac0.84 dec Ac2.51 dec Ac6.69 dec	Govt.
63.	Soro	Quarry No-15	Stone Quarry	Mahumuhan & Khanjamahala	144	265 266	Ac5.09 dec Ac5.76 dec	Govt.
64.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 1	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	1	Ac. 0.50	Govt.
65.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 2	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	1	Ac. 1.00	Govt.
66.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 3	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 0.50	Govt.
67.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 4	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
68.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 10	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 2.00	Govt.
69.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 11	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 2.00	Govt.
70.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 12	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 5.00	Govt.
71.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 13	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
72.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 14	Stone Quarry	Sarisua Kapilajhari	245	95	Ac. 2.00	Govt.



				Bandhanata				
73.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 15	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
74.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 16	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
75.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 17	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
76.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 18	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 7.00	Govt.
77.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 19	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 8.00	Govt.
78.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 20	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 9.00	Govt.
79.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 21	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
80.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 22	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
81.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 23	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac.1.00	Govt.
82.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 24	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 0.50	Govt.
83.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 25	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 0.50	Govt.
84.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 26	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95, 112	Ac. 0.50	Govt.
85.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 27	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95, 112	Ac. 5.00	Govt.
86.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 28	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 2.00	Govt.
87.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 29	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
88.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 30	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
89.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 31	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 2.00	Govt.
90.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 32	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 0.50	Govt.



91.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 33	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 2.50	Govt.
92.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No.34	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 0.50	Govt.
93.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No.35	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
94.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No.36	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 0.50	Govt.
95.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 37	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.00	Govt.
96.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 38	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 0.50	Govt.
97.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 39	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 5.00	Govt.
98.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 40	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 3.00	Govt.
99.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No.41	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 1.50	Govt.
100.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 42	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 2.00	Govt.
101.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 43	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 0.50	Govt.
102.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 44	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 0.50	Govt.
103.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 51	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac.1.50	Govt.
104.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No.100	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	95	Ac. 0.50	Govt.
105.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No.101	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	1	Ac. 0.50	Govt.
106.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No 45	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	1	Ac. 0.50	Govt.
107.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 46	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.00	Govt.
108.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 47	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.00	Govt.



109.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 48	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 0.50	Govt.
110.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 49	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.00	Govt.
111.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 50	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.00	Govt.
112.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 52	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 5.00	Govt.
113.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No.53	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.00	Govt.
114.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 54	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 3.00	Govt.
115.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 55	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 4.00	Govt.
116.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 56	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 0.50	Govt.
117.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 57	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.00	Govt.
118.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 58	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.00	Govt.
119.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 59	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.50	Govt.
120.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 60	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.50	Govt.
121.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 61	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 0.50	Govt.
122.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 62	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 2.00	Govt.
123.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 63	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 3.00	Govt.
124.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 64	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 4.00	Govt.
125.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 65	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 5.00	Govt.
126.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 67	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 3.00	Govt.



127.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 68	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 3.00	Govt.
128.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 69	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.50	Govt.
129.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 102	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 0.50	Govt.
130.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 103	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 0.50	Govt.
131.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 70	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 7.00	Govt.
132.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 71	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
133.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 72	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
134.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 73	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 3.00	Govt.
135.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 74	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 0.50	Govt.
136.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 75	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	314	Ac. 1.50	Govt.
137.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 76	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
138.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 77	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
139.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 78	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 0.50	Govt.
140.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 79	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 0.50	Govt.
141.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 80	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
142.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 81	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
143.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 82	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 0.50	Govt.
144.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 83	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.



145.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 84	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 2.00	Govt.
146.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 85	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
147.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 86	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 2.00	Govt.
148.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 87	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 2.00	Govt.
149.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 88	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 2.00	Govt.
150.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 89	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 2.00	Govt.
151.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 90	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
152.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 91	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
153.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 92	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 2.50	Govt.
154.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No.93	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
155.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 94	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.00	Govt.
156.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 95	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 4.00	Govt.
157.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 96	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 1.50	Govt.
158.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 97	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 2.50	Govt.
159.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 98	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 0.50	Govt.
160.	Khaira	Sarisua Kapilajhari Bandhanata Stone Quarry No. 99	Stone Quarry	Sarisua Kapilajhari Bandhanata	245	520	Ac. 2.00	Govt.
161.	Nilgiri	Kathagochhi Stone Quarry	Stone	Kathagochhi	284	135, 136, 137, 138,139, 140, 148,	Ac 26.40 dec	Govt.



					264 572	294 147 295, 296, 306, 736		
162.	Nilgiri	Mirigini Stone Quarry No. 1	Stone	Mirigini	453	572	Ac 6.30 dec	Govt.
163.	Nilgiri	Mahisapatta Stone Quarry	Stone	Mahisapatta	300	644, 640	Ac 0.98 dec	Govt.
164.	Nilgiri	K.P Mahal Stone Quarry	Stone	K.P Mahal	394/105	11/1594/ 1693, 11/1594	Ac 0.74 dec	Pvt.
165.	Nilgiri	K.P Mahal Stone Quarry	Stone	K.P Mahal	273 10	12,11/1593, 9,36/1592	Ac 1.97 dec	Pvt.
166.	Nilgiri	Mahisapatta Stone Quarry	Stone	Mahisapatta	294/185	1593 1594 1596	Ac 0.92 dec	Pvt.
167.	Nilgiri	Jamudiha Stone Quarry	Stone	Jamudiha	1066/ 1391, 1066/ 1160	3937 3939/ 5651	Ac 1.16 dec	Pvt.
168.	Nilgiri	Jamudiha Stone Quarry	Stone	Jamudiha	1066 /1270, 1066/ 1160	3553 3551	Ac 1.49 dec	Pvt.
169.	Nilgiri	Jamudiha Stone Quarry No. 3	Stone	Jamudiha	475	3109	Ac 0.79 dec	Pvt.



Annexure-III

Minor Mineral Sources under Sadar Sub-Division.

Brick Earth of Jaleswar Tahasil								
Sl No	Name of the Teshil	Name of the Source	Type of Quarry	Mouza	Khata No	Plot No	Area	
1.	Jaleswar	M/S Sathi Brick Earth Quarry	Brick Klin	Mahammad Nagarpatna	420/73	295 358/1623	Ac.1.04 d	Pvt.
2.	Jaleswar	M/S Sita Brick Earth Quarry	Brick Klin	Sekh sarai	63	269 & 266	Ac.1.58 dec.	Pvt.
3.	Basta	M/S Santi Brick Earth Quarry	Brick	Tenguria	213/80 213/81 213/135	576, 584/1034 583 578/987	Ac.1.11 dec	Pvt.
4.	Basta	M/S Usha-I Brick Earth Quarry	Brick	Gangadharpur	260/46 & 43	441/778, 442, 443 & 444	Ac.0.85 dec	Pvt.
5.	Basta	M/S Heera Brick Earth Quarry	Brick	Asti	206 302	1901 1880 1895	Ac.0.48 dec Ac.0.25 dec Ac.0.14 dec	Pvt.
6.	Remuna	M/S Mita Bricks Earth Quarry	Brick	Gambharia	428/20	584, 584/1377 584/1378 584/1401	Ac.0.99 dec	Pvt.
7.	Remuna	M/S BLS Bricks Earth Quarry	Brick	Gambharia	428/121	1245	Ac.1.12 dec	Pvt.
8.	Remuna	Gold Bricks Earth Quarry	Brick	Haripur	220/98	222/990, 222, 165, 174	Ac.1.09 dec	Pvt.
9.	Remuna	Hira Bricks Earth Quarry	Brick	Bindha	109/30	79, 97, 113	Ac.1.00 dec	Pvt.
10.	Remuna	Raja Bricks Earth Quarry	Brick	Rudragopalpur Sambil Naharapatna	227/144	567	Ac.1.74 dec	Pvt.
11.	Nilgiri	Brick earth quarry for Shakti Brick Kiln Unit	Brick Earth	Gopalpur	260	1682	Ac 1.27 dec	Pvt.
12.	Nilgiri	Brick earth quarry for J.D Brick Kiln Unit	Brick Earth	Jadibali	201	1729, 1731, 1732,	Ac 2.37 dec	Pvt.



						1745, 1746,1739 , 1740, 1741, 1795, 1794		
13.	Nilgiri	Brick earth quarry for Shakti Brick Kiln Unit	Brick Earth	Jamudiha	195 196	717,926,5 40,711,16 95,1731, 1695/4486 ,1720	Ac 3.83 dec	Pvt.



Annexure-IV

Minor Mineral Sources under Sadar Sub-Division.

Murrom sources under Jaleswar Tahasil

Sl No	Name of the Teshil	Name of the Source	Type of Quarry	Mouza	Khata No	Plot No	Area	
1.	Jaleswar	BaradihaMurrom Quarry	Murrom	Baradiha	266	1608	Ac.1.96 dec.	Pvt.
2.	Jaleswar	BaradihaMurrom Quarry	Murrom	Baradiha	495	1081, 1093 & 1100	Ac.2.47 dec	Pvt.
3.	Jaleswar	BaradihaMurrom Quarry	Murrom	Baradiha	495	1330	Ac.2.27 dec	Pvt.
4.	Jaleswar	BaradihaMurrom Quarry	Murrom	Baradiha	1173/774	3812	Ac.0.56 dec	Pvt.
5.	Jaleswar	BaradihaMurrom Quarry	Murrom	Baradiha	1173/516	3760/7363 3761/7364	Ac.0.34 dec	Pvt.
6.	Nilgiri	Jamudiha Murrom Quarry	Murrom	Jamudiha	1066/627	4108/4903	Ac 1.50 dec	Pvt.
7.	Nilgiri	Bholadanga Murrom Quarry	Murrom	Bholadanga	45/12	1,2,5,6,7, 8,9,10,11, 14,18,19, 20, 21,26,27,3 0,31,32, 33,34, 35,36,37, 41, 42, 43, 44,45	Ac 11.73 dec	Pvt.
8.	Oupada	Garuda Hata Murrom Quarry	Murrom	Garuda Hata	81	2158, 286	-	Pvt.
9.	Oupada	Aghasul Murrom Quarry	Murrom	Aghasul	23	291	-	Pvt.

Signature Not Verified

Digitally signed by D. K. Murugesan, IFS,
Member Secretary

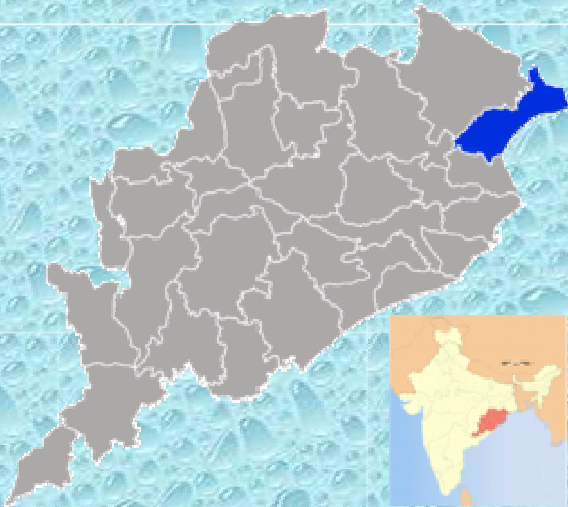
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**DISTRICT SURVEY REPORT (DSR)
OF
BALASORE DISTRICT, ODISHA.
FOR
RIVER SAND
(FOR PLANNING & EXPLOITATION OF MINOR MINERAL RESOURCES)**

ODISHA

BALASORE



**As per Notification No. S.O. 3611(E) New Delhi
dated 25th July 2018 of
Ministry of Environment, Forest & Climate Change
(MoEF & CC) & Guidelines of EMGSM-2020**

COLLECTORATE, BALASORE.

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PREAMBLE

Odisha is one of the Major Mineral rich State in India. Balasore is a unique District in Odisha lies on the Northern most part of the State with rich and varied mineral resource. It is a paradise for Geoscientists of India and abroad. It has preserved many important rock groups from the earliest of crust formation to the geologically recent times. The landmass constituting the Balasore District, explorers to many Entrepreneurs on account of its diverse geological setting and rich and varied mineral resources.

In pursuance of MoEF & CC Notification S.O. 141(E) dated 15th Jan. 2016, District Environment Impact Assessment Authority (DEIAA) & District level Expert Appraisal Committee (DEAC) has been formed for Category –B2 Minor Minerals having area less than or equal to 5 ha. Prior to the formation of Odisha Minor Mineral Concession Rule 2004, (OMMCR -2004) the mining operation for minor mineral were carried out in unscientific manner. Identifying this fact in exercise of power, Conferred by Section 15 by Mines and Minerals (Development and Regulation) Act 1957 as amended in 2015 and all other powers enabling it in that behalf, the industry Mines & Geology Department, Govt. of Odisha framed the aforementioned rule, which has been amended with period of times in the year 2014, 2015 and 2016.

Keeping in view of experience gained in period of decade, the MoEF & CC came out with Environmental Impact Assessment Notification S.O.-1533(E) dated 14th Sept. 2006. It has been made mandatory to obtain environmental clearance for different kinds of development projects as listed in Scheduled -I of notification. Further, pursuance of the order of Hon' ble Supreme Court Petition (C) No. 19628-19629 of 2009, dated 27th Feb. 2012 In the matter of Deepak Kumar etc., Vs State of Haryana and others etc., Prior Environmental Clearance has now become mandatory for mining of Minor Minerals irrespective of the area of Mining Lease. And also in view of the Hon' ble National Green Tribunal, order dated the 13th Jan. 2015 the matter regarding Sand, Brick Earth, & Burrowed Earth cutting for Road Construction has to take prior E.C. for Mining Lease irrespective of the fact that whether the area involved is more or less than 5 hectares. They also suggested to

make a policy on E.C for minor minerals lease in cluster.

MoEF & CC in consultation with State Government has prepared Guidelines on Sustainable Sand Mining & Minor minerals other than sand mining in 2016, detailing the provisions on Environmental Clearance for cluster. Creation of District Environmental Impact Assessment Authority (DEIAA) & proper monitoring of Minor Minerals. Mining, using Information Technology to track the mineral out material from source to destination.

DEAC will scrutinize and recommend the prior environmental clearance of mining of minor mineral to DEIAA on basis of District Survey Report. This will model and guiding document which is a compendium of available mineral resources, geographical setup, Environmental and Ecological set up of the District and replenishment of minerals and is based on data of various departments, published reports, Journal and websites. Subsequently, Hon'ble Supreme Court vide their order dt. 18.01.2022 in connection with Civil Appeal Nos. 3661-3662 of 2020, the State of Bihar and others Vrs- Pawan Kumar and others at Paragraph 14 " We therefore find it appropriate to substitute the directions issued by Tribunal vide judgment and order dated 14th October-2020 with the following directions,

- (i) The exercise of preparation of DSR for the purpose of mining of the State of Bihar in all the Districts shall be under taken afresh. The Draft DSRs shall be prepared by the Sub-Divisional Committees consisting of the Sub-Divisional Magistrate, Officers from Irrigation Department, State Pollution Control Board or Committee, Forest Department, Geological or Mining Officer. The same shall be prepared by undertaking site visits and also using by modern technology. After the Draft DSRs are prepared the District Magistrate of the concerned District shall forward the same for examination and evaluation by the SEAC. The same shall be examined by the SEAC and its report shall be forwarded to SEIAA. The SEIAA will thereafter consider the grant of approval such DSRs.
- (ii) Needless to state that while preparing DSRs and appraisal thereof by SEAC and SEIAA. It should be ensured that a strict adherence

to the procedure and parameters laid down in the policy of January-2020 should be followed.

The District Survey Report will form the basis for application for Environmental Clearance, preparation of reports and appraisal of projects. District Survey Reports are to be reviewed once in every five years as per statute, however this is an interim report, which will be updated at regular intervals.

In lieu of above guideline and orders of Hon'ble Supreme Court and in compliance to the orders of Hon'ble NGT, EZ, Kolkata, in connection with O.A No. 63/2020, the Member Secretary, SEIAA, Bhubaneswar issued a Letter on 27th December, 2022 to Collector & District Magistrate, Balasore with a direction " the DSR is to be signed afresh by the Collector and District Magistrate, along with members of the designated sub-committee consisting of Sub-Divisional Magistrate, and District Level Officers from Irrigation Department, State Pollution Control Board, Forest Department, Geology and /or Mining Department. Keeping in view of the orders of Hon'ble Supreme Court, Hon'ble NGT and directions of SEIAA, Bhubaneswar a fresh DSR has been prepared observing all formalities in the year, 2023

The Main objective of the preparation of District Survey Report is to ensure the following:-

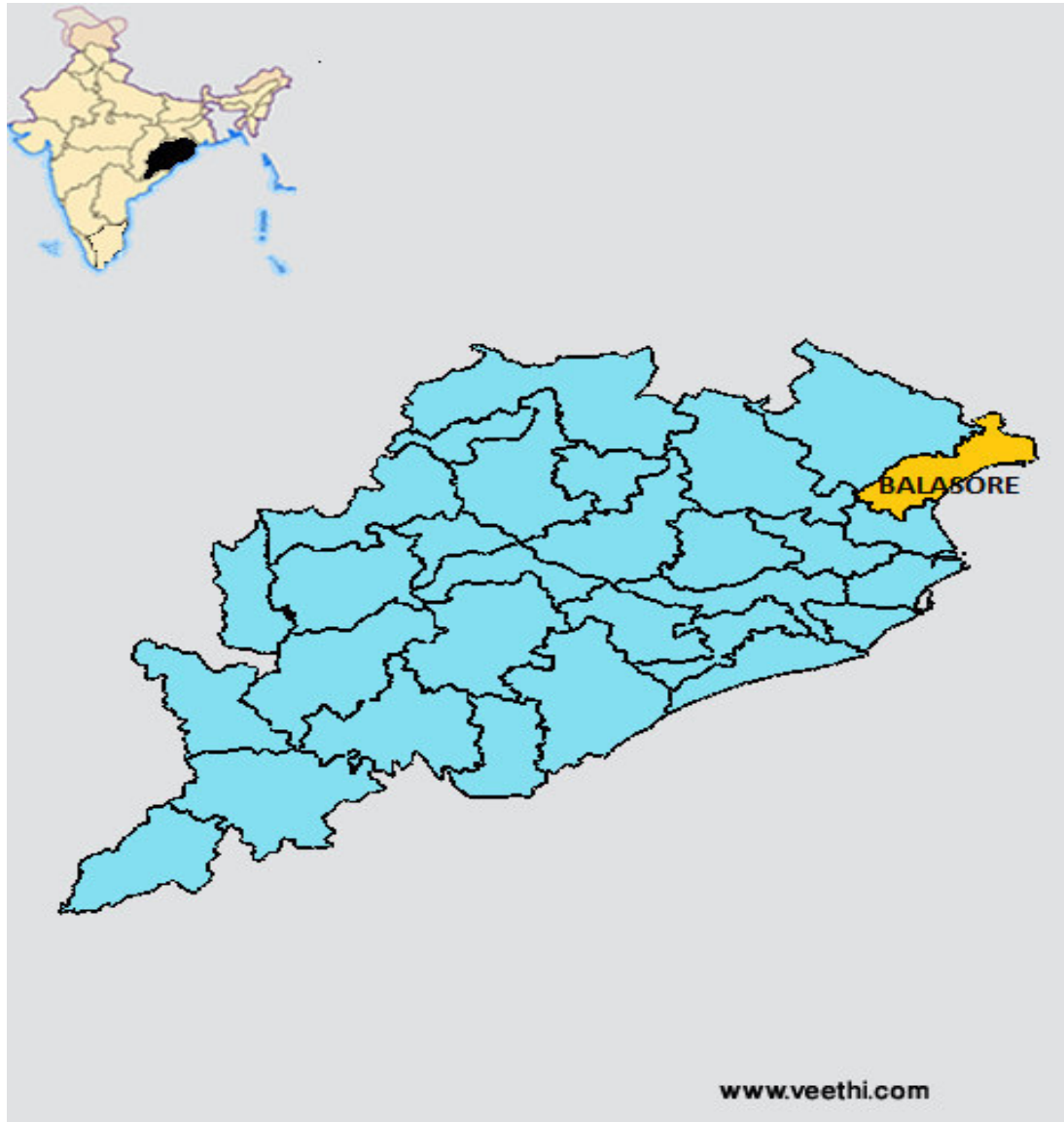
1. Identification of Mineral Resources in the District.
2. Identification of areas of minor minerals having the potentiality where mining can be allowed.
3. Identification of area and proximity to infrastructure and installations where mining should be prohibited.

1. INTRODUCTION

Balasore at a Glance:

1.1 Location and Geographical Area:

Balasore is one of the coastal Districts of Odisha. Balasore is the District Head Quarter, spreading over an area of 3634 sq.km lies between 20° 48' North and 21° 59' North latitudes and 86°16' and 87°29' East longitudes. The District is surrounded by Medinipur District of West Bengal on its Northern side, Bay of Bengal on its East, Bhadrak District on its South and Mayurbhanj & Keonjhar Districts lies on its Western side. It is best known for Chandipur Beach. The Indian Ballistic Missile Defense Program's Integrated Test Range is located at a distance of 18 km towards South of Balasore. It is the largest city of North Odisha. This District consists of two Sub-Divisions namely Balasore and Nilgiri. There are 12 Tahasils for 12 Blocks of this District. Balasore is the main town as well as the Centre of Economic Growth in the district. The primary occupation of people in the District is cultivation. This District is mainly known for cultivation of paddy. Industries, Agriculture, Fishing and Tourism are the four major Revenue sources of Balasore District. Birla Tyres, Balasore Alloys Limited, Emami Paper Mills Limited and Polar Pharma India Limited are some of the Large-Scale Industries functioning in this District. Balasore occupies a unique position being endowed with lush green vegetation, different fauna & flora and rich Cultural Heritage. The District has a rich mineral base of river sand, and Road Metal which are mainly used in construction purpose in the District. The huge deposits of granite stones at Nilgiri, Khaira, Soro region provides tremendous scope for development of few more Industries based on these resources. Except these, no major mineral in large quantity which can be explored for commercial purpose found in the District. The location of the District has been presented in a map below.



1.2 Administrative Units:-

Balasore Town is the Administrative Headquarter of Balasore District. It is located at a distance of 194 km from Bhubaneswar, the State capital of Odisha. It is the 2nd largest district in area among the costal districts of Odisha. It has 3049 villages covering 12 Blocks, 12 Tahasils and 2 Sub-Divisions. The District is divided into 2 Sub-Divisions namely 1) Balasore, 2) Nilagiri and into 12 Blocks & Tahasils, namely i) Bahanaga N ii) Balasore iii) Baliapal iv) Basta v) Bhogarai vi) Jaleswar vii) Khaira viii) Nilgiri, ix) Oupada, x) Remuna xi) Simulia xii) Soro. The population of the

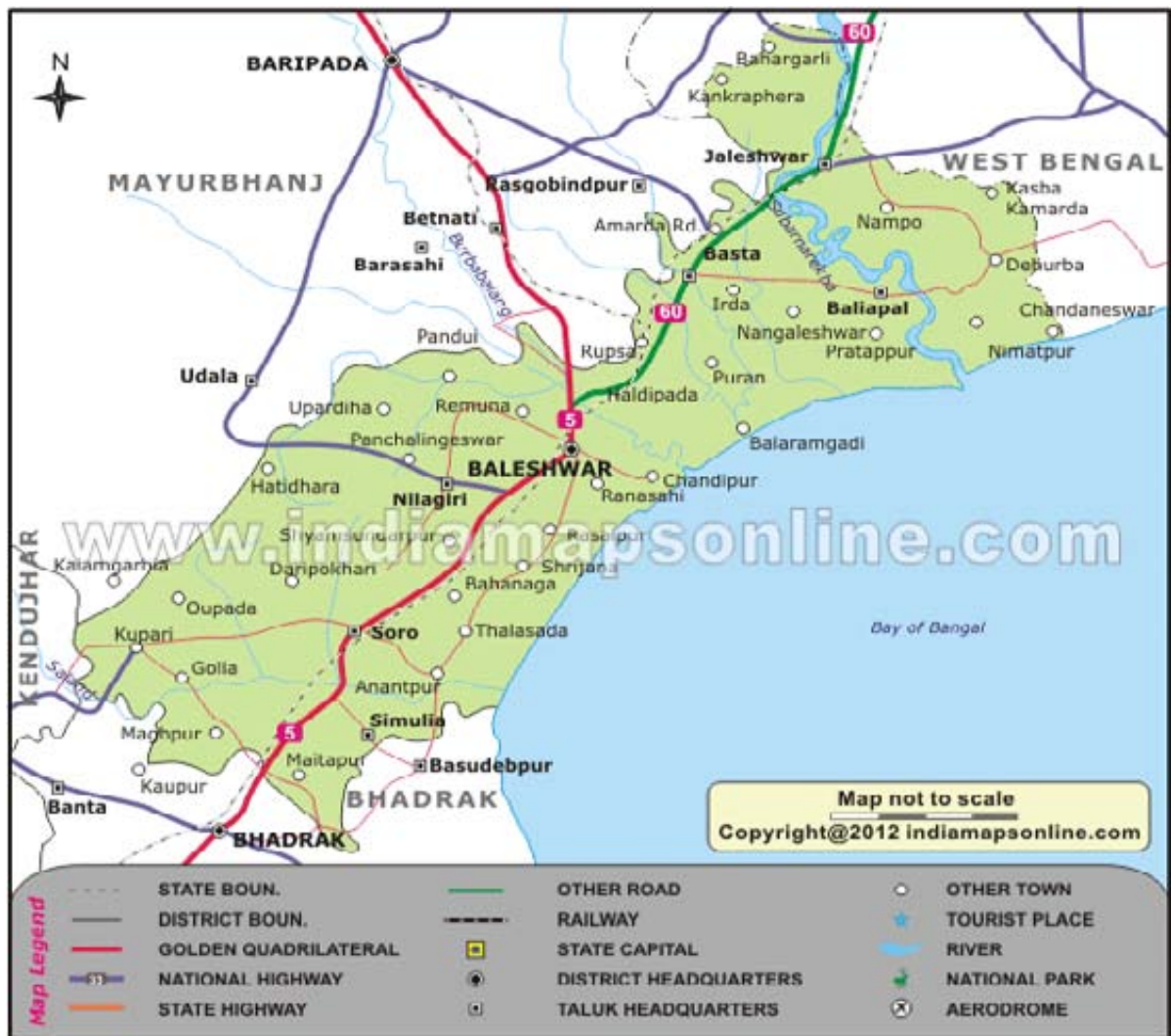
District is 23,17,419 according to the 2011 Census. The District accounts for 5.53% of the State's territory and about 5.50% of State's population. The density of population of the District is 532 per square km as against 610 per square km of the State. As per 2011 Census, the population of Scheduled Caste is 1,84,682 (7.30%), and Scheduled Tribe is 14,79,576 (58.7%). The literacy percentage of the District covers 79.18 against 84.67 of the State.



1.3 Connectivity facilities:-

Road Network

The District is well served by a network of good roads and has been called the motorists paradise. The chief roads NH-16 and NH-60 pass through the District. Balasore Town is about 60 Kms from Baripada, 122 Kms from Kharagpur, 199 Kms from Jamshedpur, 177 Kms from Cuttack, 199 Kms from Bhubaneswar and 361 Kms from Rourkela. It is also connected with other cities such as Sambalpur, Puri, Bolangir, Bhadrak, Jhargram, Angul, Ranchi and Kolkata via road.



Rail Network

Balasore District is well connected by Rail link to different places. Balasore Railway Station is a busy station on the Howrah-Chennai main line of the South Eastern Railway. The distance to Kolkata is approximately 232 km, while the distance to Bhubaneswar is about 206 km; the city of Balasore is well connected to many places in India like Baripada, Bhubaneswar, Kolkata, Jamshedpur and Cuttack.



Air Network

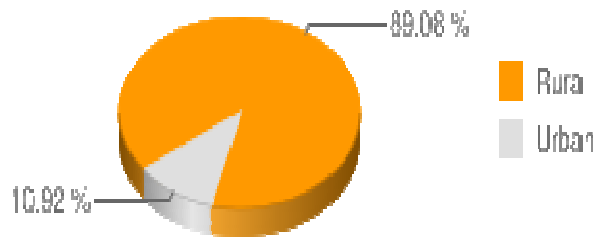
At present, Balasore has no connection by Airway. The site selection for Aerodrome is presently under process. The nearest Airport is Biju Patnaik International Airport, Bhubaneswar which is situated 200 Kms far from Balasore. Netaji Subhas Chandra Bose International Airport in Kolkata is 232 kms far from Balasore.

2.0 GENERAL PROFILE OF THE DISTRICT:

2.1 Demography:

Census - 2011	
Geographical Area	3806 Sq. Km.
Total population	23,17,419
Male Population	11,84,371
Female Population	11,33,048
Male Literacy	9,18,417
Female Literacy	7,29,488
SC Male	NA
SC Female	NA
ST Male	NA
ST Female	NA
OBC	855,480
Illiterate Male	9,18,407
Illiterate Female	7,29,488

Rural Urban Baleshwar



2.2 Climate:

The climate in Balasore is warm and temperate. In winter, there is much less rainfall in Balasore than in summer. The Köppen-Geiger Climate Classification is Cwa i.e Temperate-Dry Winter-Hot Summer. May is the warmest month of the year. The

temperature in May averages 32.3 °C. January has the lowest average temperature of the year which is 16.5 °C. There is a difference of 321 mm of precipitation between the driest and the wettest month. The average annual temperature of Balasore District is 24.4 °C. (Source:-Indian Meteorological Department).

3.0 LAND UTILIZATION PATTERN IN THE DISTRICT

3.1 Forest and non forest land

The forest of Balasore District is full of varieties of medicinal plant. Kendu leaves, Bamboo, Sal, Teak, other timber species and a wide range of carnivorous & herbivorous wild animals live in the forest. The District has one Wildlife Sanctuary known as Kuldiha Wildlife Sanctuary, which even hosts elephants. The area of the sanctuary is 26886 hectares. In the Sanctuary, the principal animals that are found are Elephant, Bear, Nilgai, Sambhar, Peacock, Wild Boar and Deer, together with variety of snakes and birds.

District-wise Forest Cover Area in Odisha (Area in Km²)

2017 Assessment								
District	Geographical Area Km ²	Very Dense Forest	Moderate. Dense Forest	Open Forest	Total	Percent of GA	Change	Scrub
Angul	6375	371	1380	1004	2755	43.22	43	84
Bolangir	6575	70	224	837	1131	17.2	151	142
Balasore	3806	23	127	234	380	9.98	30	48
Bargarh	5837	176	371	484	1031	17.66	88	47
Bouda	3098	263	546	480	1289	41.61	27	57
Bhadrak	2505	0	9	66	75	2.99	2	0
Cuttack	3932	53	226	517	796	20.24	11	68
Deogarh	2940	191	667	614	1472	50.07	-3	14
Dhenkanal	4452	174	418	825	1417	31.83	9	82
Gajapati	4325	84	1490	946	2520	58.27	12	262
Ganjam	8206	164	1075	864	2103	25.63	15	655
Jagatsinghpur	1668	0	5	131	136	8.15	6	0
Jajpur	2899	6	72	225	303	10.45	3	50
Jharsugada	2114	3	140	179	322	15.23	9	36
Kalahandi	7920	362	729	1327	2418	30.53	36	362
Kandhamal	8021	661	2588	2143	5392	67.22	16	380

River Sand Mining

DSR of Balasore District

Kendrapada	2644	84	88	133	305	11.54	14	2
Keonjhar	8303	289	1404	1519	3212	38.68	4	55
Khorda	2813	21	186	250	457	16.25	0	92
Koraput	8807	94	740	1255	2089	23.72	120	944
Malkangiri	5791	158	709	1475	2342	40.44	20	45
Mayurbhanj	10418	1335	1718	1027	4080	39.16	42	34
Nabarangpur	5291	168	428	507	1103	20.85	8	47
Nayagarh	3890	189	965	556	1710	43.96	28	173
Nuapada	3852	86	482	705	1273	33.05	33	109
Puri	3479	0	54	160	214	6.15	8	11
Rayagada	7073	422	853	1851	3126	44.2	7	349
Sambalpur	6624	499	1675	1106	3280	49.52	13	40
Subarnapur	2337	2	187	161	350	14.98	26	29
Sundargarh	9712	1019	1814	1431	4264	43.9	107	89
Grand Total	155707	6967	21730	23008	51345	32.98	885	4306

(Source: India State of forest report 2017-Odisha)

The major portion of the District is covered by forest (9.98 % of TGA) and has scattered settlement pattern. The forest is full of variety of medicinal plants, kendu leaves, bamboo, Sal, teak and other timber species. The District has considerably flat land, which provides suitable site for agricultural use. The hilly areas are mostly under forest with patches of cultivation on scarp areas. Major crops grown in the District are rice and pulses. Only 12.50 percent area of agricultural use are net irrigated and major source of irrigations are wells and tube wells.

Source: Fertilizer and Agriculture Statistics, Eastern Region (2006-2007)

Tahasil	Forest Area	Misc Tree	Permanent Pasture	Cultivated waste	Non Agricultural uses	Barren land	Current Fallow	Other Fallow	Net area sown
Bahanaga	0	714	992	904	2882	0	525	438	24047
Balasore	4	634	3133	2949	6116	1640	531	553	15185
Baliapal	1008	1813	295	2855	4515	0	638	717	16624
Basta	13	198	892	498	4143	0	551	103	12954
Bhogorai	118	3364	1263	5350	4732	59	1025	510	15794
Jaleswar	1716	2045	1396	2455	5422	43	736	334	18713
Khaira	55	630	1544	1210	3508	0	1173	764	18160
Nilagiri	977	289	1444	2343	2312	435	558	188	28280
Oupada	329	374	855	557	1656	0	177	338	19759
Remuna	108	813	1317	2989	5070	10	1073	114	16363
Simulia	5	438	846	576	2677	0	439	889	17646
Soro	1109	441	1121	564	2066	28	295	564	21476
Total	5442	11753	15098	23250	45099	2215	7721	5512	225001

3.2 Agriculture Land:

The primary objective of Agriculture Department is to increase the production as well as productivity of major crops like Paddy, Groundnut, Mustard, Mung, Biri & vegetables which is widely cultivated in this District in both Kharif & Rabi season. Another key objective is to bring all round development among farming community of the District. The Chief District Agriculture officer is the head of office so far as agriculture is concerned. Under him there are 5 District Agriculture Officers & the block under them. As it has already been pointed out that agriculture is the main livelihood of the people in Balasore District, it is therefore designated as the food bowl of Odisha. Rice is the principal crop grown in this District, followed by other cereals, pulses, oilseeds, vegetables, spices and sugarcane. The agricultural statistics for the District is shown in tables below:

Table – 3.6a: Crop Coverage Area of Balasore District, Odisha

Crop	Khariff		Rabi		Annual	TOTAL	
	Area (ha)	(% of Cropped Area)	Area (ha)	% of Cropped Area	Area (ha)	Gross Cropped Area (ha)	% of Gross Cropped Area
Rice	206.14	91.62	33.47	34.38	-	239.61	72.03
Cereals	0.31	0.14	0.79	0.82	-	1.10	0.33
Pulses	0.48	0.21	21.64	22.55	-	22.12	6.65
Oilseeds	0.13	0.06	14.38	20.20	-	19.51	5.87
Vegetables	13.04	5.80	16.14	16.82	-	29.18	8.77
Fibres	2.20	0.98	-	-	-	2.20	0.66
Spices	2.69	1.19	4.08	4.25	-	6.77	2.04
Sugarcane	-	-	0.46	0.48	-	0.46	0.14
Tobacco	-	-	-	-	-	-	-
Fruits	-	-	-	-	11.68	11.68	3.51
TOTAL	224.99	100	95.96	100	11.68	332.63	100

3.3 Horticulture Land:

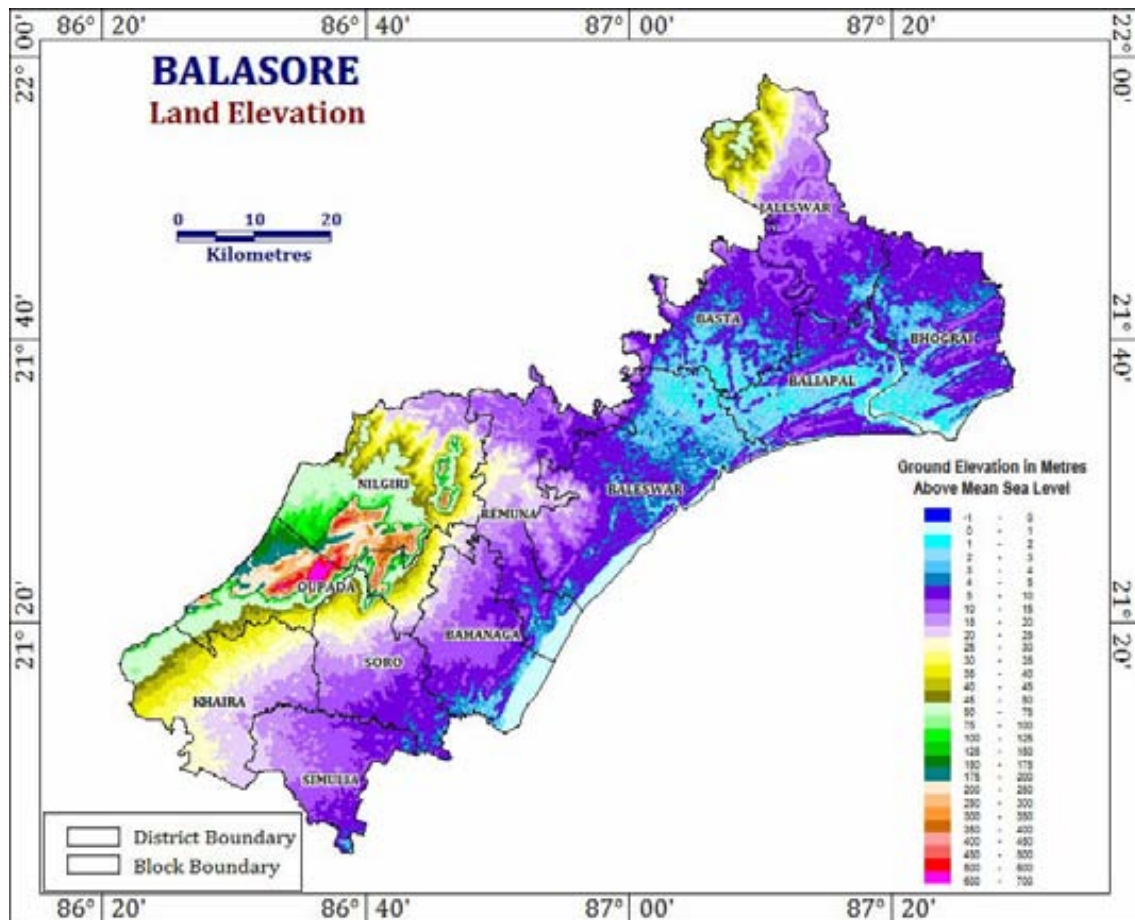
The primary objective of Horticulture Department is to increase of production as well as productivity of major fruits like Mango, Guava, Citrus etc., which is widely covered in the District. Another key objective is the all-round development of the farming community of the District. The horticulture statistics for the District is shown in subsequent tables below:

Horticulture crops	Total Area (hectares)
Mango	4.39
Citrus	0.80
Papaya	0.06
Pineapple	0.04
Guava	0.32
Sapota	0.07

Source: SREP, Balasore. Orissa Agric.

4.0 PHYSIOGRAPHY OF THE DISTRICT:

The District of Balasore is having a unique physiographic set up. It is bounded by the Bay of Bengal in south and on the North Western side it is marked by a set of hillocks and mounds including a North East – South West trending Hilly patch in the Nilgiri, Khaira & Oupada Blocks. The land elevation varies from as low as near mean sea level in the southern part to as high as about 600 m above mean sea level in the North Western part. In between a major part covering more than 75% of the geographical area is having elevation within the range of 2 – 10 meters above mean sea level. In the extreme eastern part of the District, within the alluvial tracts of the River Subarnarekha & Burhabalang, Jalaka, Son etc. the average elevation is within 1 – 2 meters above mean sea level.



5.0 RAINFALL OF THE DISTRICT AND CLIMATE CONDITION

5.1 Month wise rainfall:

The driest month is November, with 31 mm of rain. There is on average 3 mm of precipitation in December. In July, the precipitation reaches its peak, with an average of 313.98 mm.

Year		2020	2021	2022	Average
Sl. No.	Month	(mm)	(mm)	(mm)	(mm)
1	Jan	41.71	0.00	17.67	59.38
2	Feb	16.48	0.00	35.92	52.40
3	Mar	52.00	0.00	0.00	52.00
4	Apr	123.27	34.75	3.36	161.38
5	May	218.76	342.22	80.54	641.52
6	Jun	221.88	175.22	173.33	570.43
7	Jul	149.18	216.21	342.52	707.91
8	Aug	414.26	220.58	462.67	1097.51
9	Sep	109.40	456.06	187.33	752.79
10	Oct	185.24	177.93	179.42	542.59
11	Nov	6.00	0.92	0.00	6.92
12	Dec	0.00	58.47	0.00	58.47
Total		1538.18	1682.36	1482.76	4703.3

The Indian Meteorological Department, Bhubaneswar, vide letter No. BBS/RMC/CS-312, dated 18th January, 2016 has provided the period of Rainy Season viz. Normal dates of Onset and Withdrawal of South West Monsoon over India as State-wise. The duration for the period is 10th June to 15th October.

6.0 GEOLOGY AND MINERAL WEALTH OF THE DISTRICT:

6.1 Regional Geology:

The coastal tract of Orissa is underlain by the Tertiary and Quaternary Formations. Balasore is a unique District in Odisha with varied geology, of these the Tertiaries are the least exposed on the surface, whereas the Quaternaries are extensively developed along the coast and further inland. The Quaternary formations cover almost the entire study area while the Tertiaries are exposed near Baripada town at about 28 km. NNW of the Northern Boundary of the area. The Pre-Cambrian crystalline occur as hills and mounds in the west just outside the present area. Chatterji and Raghava Rao (1960) made studies on the sub-surface Geology and Tectonic Framework of sedimentation in the crescent coastline of Balasore on the basis of the data obtained from the Exploratory Drilling Operations. Exploratory Drilling reveals that in the subsurface the warped Pre-Cambrian basement is overlain by Miocene marine sediments, Mio-Pliocene estuarine sediments, laterites and

alluvium. The Mio-Pliocene sediments and alluvial sections contain the principal ground water reservoirs. The marine sediments are dominantly composed of finer elastics and non-elastics (Bhatnagar *et al*, 1970). Small outcrops of ultramafic rocks are exposed in and around Bhalukasoni (21°29': 86°42') area under Nilgiri Sub-Division of Balasore District. Ultramafic rocks comprising serpentinitised dunite, peridotite and pyroxenite largely under soil and laterite cover occur intermittently spreading over an area of 1.8m × 800m. A 100m long E-W trench has exposed two chromite ore bodies on its either end, the dimensions being 500m × 3.5m × 4.5m and 5.5m × 2m × 3.3m. A reserve of the order of 1550 tones was estimated with massive and spotted type of chromite with Cr₂O₃ content ranging from 25.77 to 54.76%. These chromite occurrences along with the associated ultramafic rocks are considered to be xenolithic bodies lying within a plutonic mass of gabbroic rocks.

6.2 Geomorphology:

Hydrogeomorphological features of Balasore District are mainly attributed to fluvio-marine, erosional, denudational and depositional processes. The coastal plain has been developed due to fluvio-marine processes. The alluvial plains owe their origin due to various fluvial actions of major rivers. The details of the geomorphic unit as identified are as below:

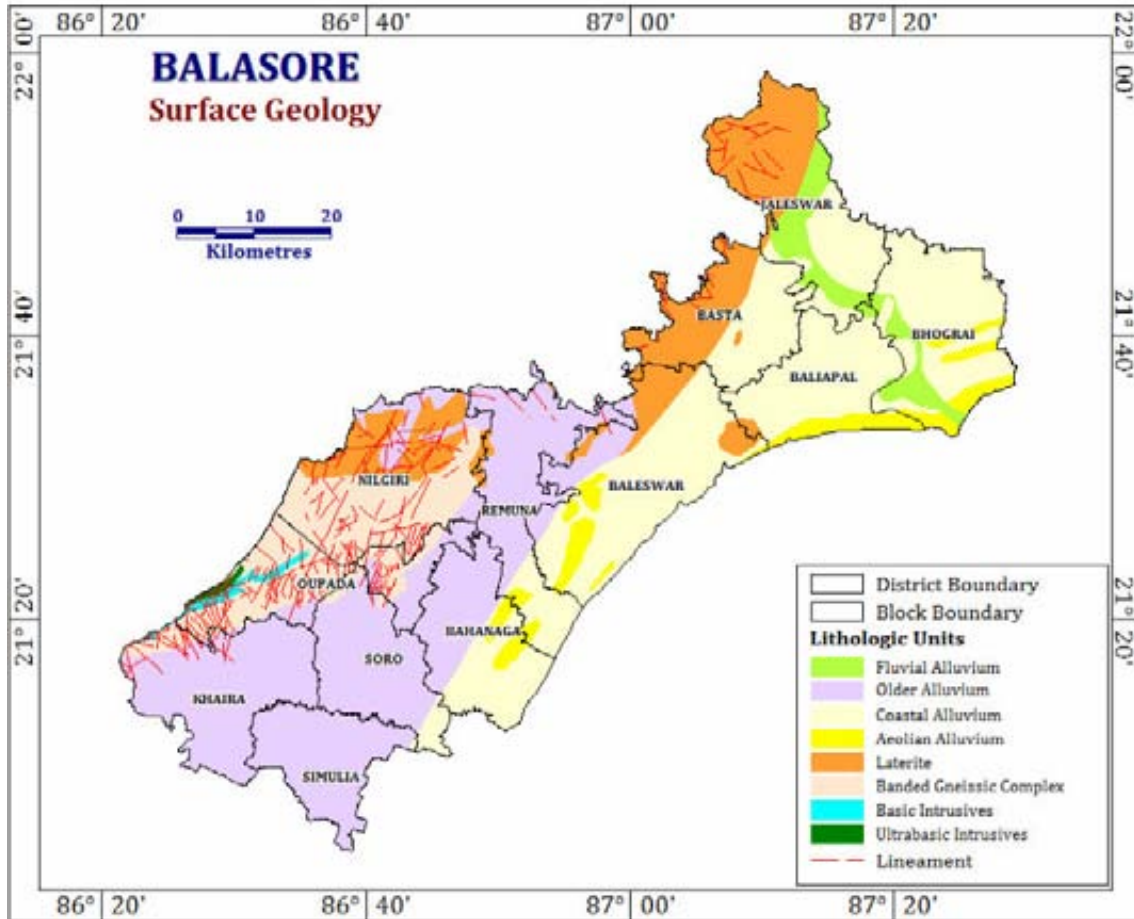
Coastal Plain: Coastal plain predominantly consisting of sand, silt and clay is developed all along the coastline of Balasore District. It is developed all along the coast of Balasore District. It is gently sloping plain occurring parallel to the coast. The saline marshy tract with shrubby vegetation comes under this coastal plain. Tidal streams are very active during high tide time. Ground water prospect is good but salinity is a major problem in this tract.

Beach: Beach is mainly formed by marine action. Beach ridges are very common and these are formed due to sea waves. They are mainly consisting of sand mixed with silt etc. Ground water prospect is good within a depth of 30-40 m, where fresh ground water pockets are available. Deep tube wells in these areas may lead to sea water ingress.

Mud flat: This is a relatively marshy area covered with fine silt and mud along the shore. Mangroves vegetation is very common. Ground water quality is mostly saline.

Paleo mud flat: These are the ancient mud flat consisting of fine sand and mud.

These are mostly converted to agricultural land in due course of time. Due to marine regression ground water quality is saline.



6.3 Stratigraphy:

The study area comprises the following distinct geomorphic units:

- i) Younger alluvial plain
- ii) Older alluvial plain
- iii) Lateritic upland

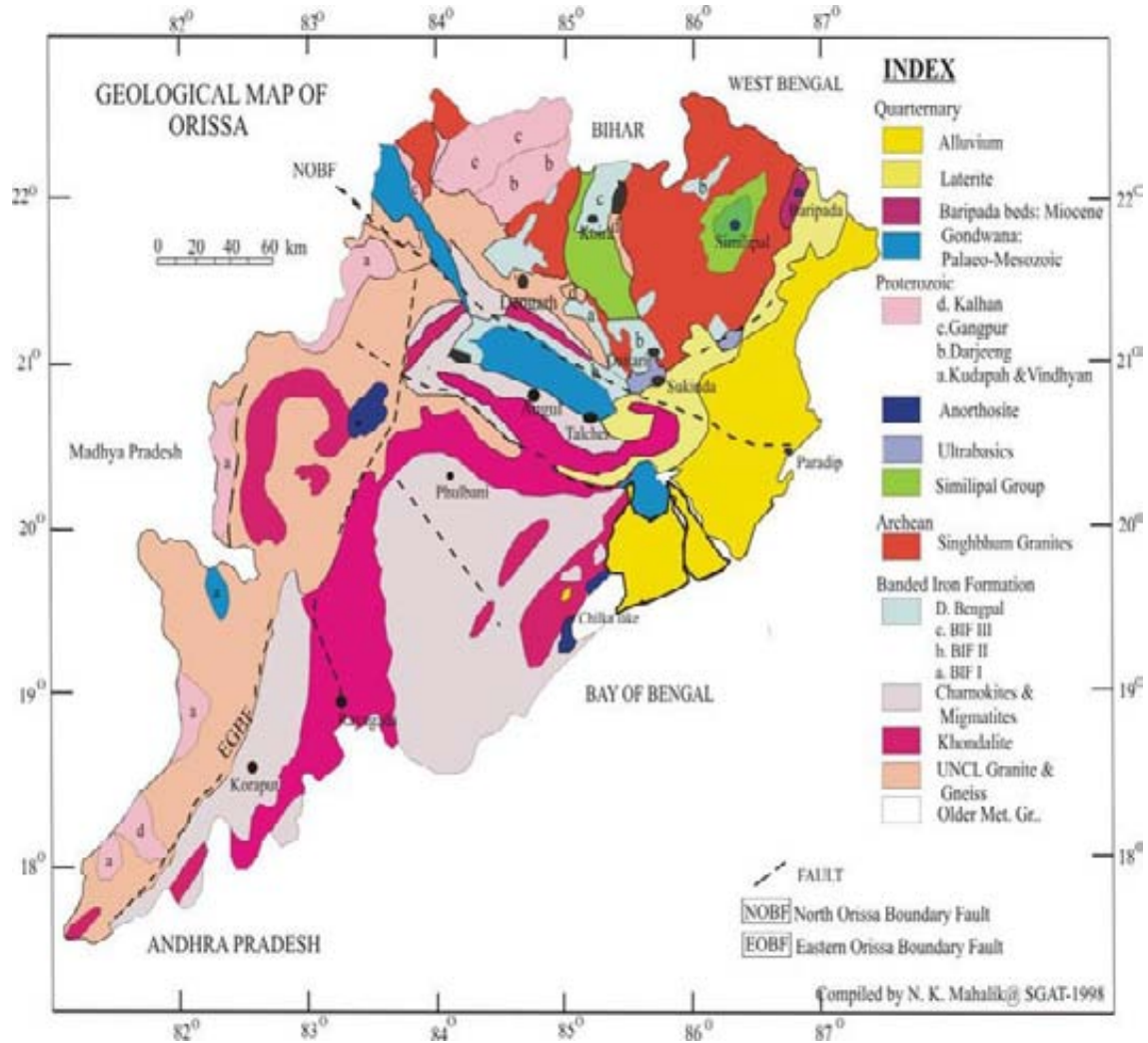
↑	<u>Geological Age</u>	<u>Geological Formation / Group</u>
	Quaternary	: Recent Alluvium, Clays, silt, Sand, Gravel
	Tertiary	: Older Alluvium, Laterite, Baripada Beds.
	Mesozoic/ Palaeozoic	: Volcanics / Epidiorite

Precambrian : Slate/ Phyllite/ Schist / Gneiss

Archean : Granite/ Granite Gneiss

6.4 Mineral Resources:

Minerals like soft stones, limestone, stone chips are available in the District, which are mainly used in industrial units in the District. The huge deposits of granite stones at Nilgiri, Khaira, Soro area which provides tremendous scope for development of few more industries based on this resources. Except these, no minerals in large quantity which can be explored for commercial purpose found in the District.



6.5 Soil:

The District comprises chiefly of lateritic, sandy loam and clayey loam type of soil (Figure 3). Laterite soil is mostly marked in the area occupied by crystalline rocks. The low lying valley fields are covered with clayey loam type of soil.

7. OVERVIEW OF MINING ACTIVITY IN THE DISTRICT:

Balasore District has transitional landform features between coastal plain and hilly region. Most of the mineralized area coming under Eco-Sensitive Zone (Kuldiha Wildlife Sanctuary). Thus mining activities are confined only to the areas outside of Eco-Sensitive Zone. The mining activity in the District is restricted only to Minor Mineral i.e. of sand, road metal, decorative stone and brick clays. These are being given to various user agencies as lease agreement governed and regulated by Revenue Department under the legal provision stated under Odisha Minor Mineral Concession Rules, 2016. There is no lease of Major Mineral in the District. At present Leases of stone, sand and bricks making units are operational in the District. Stone chips, ordinary sand constitute the principal mining activity of Soro, Khaira, Jaleswar, Nilgiri area etc. of Balasore District. Huge granite stone deposits as road metal are available in Khaira, Nilgiri, Soro area and major sand sources having good potential are available in Jaleswar, Remuna and Nilagiri area of the District. These sources have been providing tremendous scope for development of few more Industries based on these Resources.

8.0 LIST OF MINING LEASES WITH LOCTION, AREA, AND PERIOD OF VALIDITY IN THE DISTRICT:**8.1 List of Mines in operation in the District:**

Attached as Annexure-A

8.2 List of Mines not in operation in the District:

Attached as Annexure-A

9.0 DETAIL OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS:

Sl. No.	Name of the Tahasil	2020-21	2021-22	2022-23	Total Amount (Lakh)
1	Bahanaga	Nil	Nil	Nil	Nil
2	Balasore	1258000	1383800	1395344	4037144
3	Baliapal	0	0	0	0
4	Basta	1253010	39430580	0	40683590
5	Bhogarai	Nil	Nil	Nil	0
6	Jaleswar	3645000	313000	313000	4271000
7	Khaira	Nil	Nil	Nil	0
8	Nilgiri	13547000	20908900	12937500	47393400
9	Oupada	Nil	Nil	Nil	0
10	Remuna	975975	0	0	975975
11	Simulia	Nil	Nil	Nil	0
12	Soro	Nil	Nil	Nil	0
Grand Total		20688985	62036280	14645844	97361109

10.0 DETAILS OF PRODUCTION SAND OR BAJRI OR MINOR MINERAL IN LAST THREE YEARS:

Details of Production in Cum:

Sl. No.	Name of the Tahasil	2020-21	2021-22	2022-23	Total in Cum.
1	Bahanaga	Nil	Nil	Nil	0
2	Balasore	34000	37400	37712	109112
3	Baliapal	Nil	Nil	Nil	0
4	Basta	141672	12182	Nil	153854
5	Bhogarai	Nil	Nil	Nil	0
6	Jaleswar	84900	4650	50500	140050
7	Khaira	Nil	Nil	Nil	0
8	Nilgiri	43250	106600	9000	158850
9	Oupada	Nil	Nil	Nil	0
10	Remuna	32890	32690	200	65780
11	Simulia	Nil	Nil	Nil	0
12	Soro	Nil	Nil	Nil	0
Grand Total		336712	193522	97412	627646

11.0 DETAILS OF RIVER OR STREAM AND OTHER SAND SOURCES

11.1 DRAINAGE SYSTEM WITH DESCRIPTION OF MAIN RIVERS:

The District has considerable flat land, which provide suitable site for agricultural use. The hilly areas are mostly under forest with patches of cultivation on scrap areas. Major rivers flowing in the District are Budhabalanga, Subernarekha, Jalaka, sona. Major crops grown in the District are rice, only 12.50 percent area of agricultural use are net irrigated and major source of irrigations are well and tubewells.

Sl. No.	Name of the River	Area drained (Sq.Km.)	% Area drained in the District
1	Budhabalanga	300	8.2 %
2	Subernarekha	1057	29 %
3	Jalaka	330	9 %
4	Sona	255	7 %
5	Kansbans	721	19.8 %

11.2 Salient Features of Important Rivers and Streams:

The Budhabalanga, Subarnarekha, Sona & Jalaka etc. flow through the Districts of Balasore. The Budhabalanga rises from the Similipal hills and plunges through Barehipani Falls, the second-highest waterfall in India, located in Simlipal National Park. Perennial Burhabalang is the main river of the study area; it flows from Northwest to Southeast. This river is an 'extended consequent', since it has maintained its original easterly course in the plains and has reached a mature stage of development. The annual flow of water in river Burhabalang is 637 Mm³. Its total drainage area is 4,847 sq. km. River Subarnrekha is originated from Nagri District of Jharkhand and major portion of Subarnarekha river lie in the District Balasore. Most part of the river Subarnarekha flows in Jaleswar area and then enters in to West Bengal. This river maintains a sluggish flow in the pre-monsoon period, but swells menacingly with the onset of monsoon often flooding large tracts. Budhabalang and its tributaries, viz. Sona Nadi, Amrutia Nadi, Gangahar Nadi drain almost round the year in the present area. Sona Nadi receives the watery effluent load through a nalah (Sankh nalah) from the Balgopalpur Industrial Estate and flows from west to east. Amrutia Nadi flows from NNW to SSE and carries the waste water load of East Coast Fertilizer at Gadadeulia and water laden solid wastes (particularly in rainy season) from the dumping site of Krebs & CIE Ltd. at Kalma. These tributaries join Burhabalang river downstream at Sahupada and Bhimda (outside present area) respectively. There is another local stream, which flows from southwest to northeast, carrying the waste water of Birla Tyres Ltd. at Chhanpur and the industries located at Ganeshwarpur Industrial Estate. This stream too ultimately joins the Burhabalang river near Nuabazar, Balasore town.

1	2	3	4	5
Sl. No.	Name of the River or Stream	Total Length in District (in Km.)	Place of Origin	Altitude at Origin
1	Budhabalanga	51	Similipal Hill	940 mrl.
2	Subarnarekha	90	Nagri, Jharkhanda	610 mrl.
3	Jalaka	35	Chandra R.F.	60 mrl.

River Sand Mining**DSR of Balasore District**

			Mayurbhanj	
4	Sona	30	Jaymal hill, Dugdha Mayurbhanj.	340mrl
5	Kansbans	77	Birapada, Balasore	40 mrl

6	7	8	9	10
Portion of River or Stream Recommended for Mineral Concession	Length of area Recommended for Mineral Concession (in Km.)	Average width of area Recommended for Mineral Concession (in metre)	Area Recommended for Mineral Concession (in Sq. meter.)	Mineable mineral potential (in metric tonne) (60%of total mineral potential)
Details enclosed in Annexure-A				

12.0 Availability of sand or gravel or aggregate resources**12.1 Mineral Potential**

Mineral Potential				
Name of the River or Stream	Boulder (MT)	Bajri (MT)	Sand (MT)	Total Mineable Mineral Potential (MT)
Budhabalanga	Nil	Nil	363664	363664
Subernarekha	Nil	Nil	939473	939473
Jalaka	Nil	Nil	2464	2464
Sona	Nil	Nil	430129	430129
Kansbans	Nil	Nil	Nil	Nil

12.2 Annual Deposition

Annual Deposition				
Name of the River or Stream	Boulder (MT)	Bajri (MT)	Sand (MT)	Total Mineable Mineral Potential (MT)
Budhabalanga	Nil	Nil	363664	363664
Subernarekha	Nil	Nil	939473	939473
Jalaka	Nil	Nil	2464	2464
Sona	Nil	Nil	430129	430129
Kansbans	Nil	Nil	Nil	Nil

13.0 PROCESS OF DEPOSITION OF SAND OR BAJRI OR MINOR MINERAL IN LAST THREE YEARS:

Sl. No.	Name of the River	Financial Year	Process of Deposition of Sediments
1	Subarnarekha	2020-21	moderate
		2021-22	---do---
		2022-23	---do---
Total Volume of Sand in three years			
2	Budhabalanga	2020-21	moderate
		2021-22	---do---
		2022-23	---do---
Total Volume of Sand in three years			
3	Jalaka	2020-21	Slow
		2021-22	---do---
		2022-23	---do---
Total Volume of Sand in three years			
4	Sona	2020-21	Slow
		2021-22	---do---
		2022-23	---do---
5	Kansbans	2020-21	Slow
		2021-22	---do---
		2022-23	---do---
Total Volume of Sand in three years			
Grand Total			



CONCLUSION:

To meet the requirement of minerals in the present scenario, it is proposed to identify such potential areas at certain interval and get the data bank of DSR to be updated. The insitu mining activity in any area is on one hand bring revenue and employment (Direct and indirect) and on other hand if not done properly potential pollution and ecological imbalance increases, the ability of the ecosystem can also be reduced. Particulate matter transported by the wind as a result of excavations, blasting, transportation of materials, heavy equipments used raise these particulate levels; and Gas emissions from the combustion of fuels in stationary and mobile sources, explosions, and mineral processing. All these activities indirectly affected the biodiversity of area. Larger potential and smaller areas have been identified in Balasore district on the basis of geological study carried out during field observation, which can be considered for mining concession after all the parameters for statutory clearances are verified by consulting with concerned authorities.

The District Survey Report for River Sand (Minor Mineral) in respect of Balasore District in accordance with Appendix-X, Para-7 (iii) (a) of S.O. 3611(E) dt. 25.07.2018 of Ministry of Environment, Forest and Climate Change, New Delhi, Enforcement & Monitoring Guideline for Sand Mining-2020 and in compliance with the orders of Hon'ble Supreme Court dt. 10.11.2021 in connection with C.A Nos. 3661-3662 of 2020. Before preparation of this report, a survey has been conducted by District Environment Impact Assessment Authority (DEIAA) with the assistance of Irrigation Department, Forest Department, Public Works Department, Mining Department, Ground Water Boards, Remote Sensing Department, Mining Departments. The DSR is being submitted to SEIAA, Odisha, Bhubaneswar for necessary evaluation and approval.


S.D.O, Irrigation, Division,
Balasore


Regional Officer,
SPCB, Balasore


Mining Officer,
Baripada


S.D.O, Irrigation Division
Nilgiri


Sub-Collector, Nilgiri-cum
Chairman, Sub-Divisional Committee, Nilgiri


Sub-Collector, Balasore-cum
Chairman, Sub-Divisional Committee, Balasore &
Member Convener, DEIAA, Balasore


Divisional Forest Officer, (W.L)
Balasore


Superintending Engineer, Irrigation Division,
Balasore


Bhaskar Behera
Professor, Department
Of Bio-Tech, F.M University
Balasore


Collector & District Magistrate, Balasore-
cum- Chairman, DEIAA, Balasore

List of existing and new Sand Sources in respect of Balasore District

ANNEXURE-A

List of Minor Mineral sources operational & non-operational in Balasore District

Tahasil	Sl No	Name of the river or stream	Portion of the river or stream recommended for Mineral concession with GPS Co-ordinate village, Khata No, Plot No & Kسام	Length of Area recommended for Mineral concession (in KM)	Average width of Area recommended for Mineral concession (in Meter)	Total Area recommended for Mineral concession (in Sq. Meter/Ha.)	Mineable Mineral potential in Metric Tones/CuTones(60% of Total Minerals/potential)	Geological mineral potential in Metric tones/CuMs	Name of the Lessee with address	Period of Lease		Status of working or non working/Temp permit working for deapatch	Production (Sand) (in Cums)					
										From	To		2020-21	2021-22	2022-23	2020-21	2021-22	2022-23
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Remuna Tahasil																		
Remuna	1	500	Hatiaganda Khata No-313 Plot No 223, 1121 Kسام Nadi, Mukundapur Khata No-197 PlotNo-3 Kسام Nadi,Patripal Khata No-69 Plot No-1 Kسام Nadi Latitude 21°32' 57.4" N to 21° 33' 2.7"N, Longitude 86° 51' 38.9"E To 86° 51' 58.8"E	0.506 KM	0.088 KM	5.00 Ha	30559 CuM	37536 CuM	Asim Kumar Das, S/o-Anil Kumar Das Vill-Samalpur	2015-16	2019-20	Not Working	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Remun a	2	Budhabalanga	Gambharia Khata No-430 Plot No-574, 722 Kisam Nadi, Rudragopalpur Samil Naharpatna Khata No 236 Plot No-1 & 510 Kisam Nadi Latitude 21° 32' 14.0" N to 21° 33' 01"N, Longitude 86° 54' 55"E to 86° 55' 16"E	2.46 KM	0.175 Km	260 S.M	6538 CuM	21655 CuM	Satrughna Chanda, S/o- Bharat Chanda, Village- Gobindapur , Ps- Sadar, Dist- Balasore	2015-16	2019-20	Not Working	Nil	Nil	Nil	Nil	Nil	Nil
	3	Budhabalanga	Mz-Sahupada Kh-223 Plot No.237 Ac2.60 plot No. 238 Ac1.06 Plot No. 239 Ac1.06 Plot 240 Ac2.78 Mz-Durmuda Kh-281 Kisam Nadi Plot No. 15 Ac4.85 Mz-Haladia, Kh-458 Plot No.1952 Ac. 5.00 Latitude 21° 33' 51.6" N to 21° 33' 56.2" N, Longitude 86° 54' 51.6" E to 86° 55' 13.2" E	0.653 KM	0.103 KM	5.00 Ha	44177 CuM	51821 CuM	Not auctioned	2015-16	2019-20	Non-working	200	Nil	975975	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
	4	Sno	Name of the sand source-Purukhi Mz. Purukhi, Khata No. 420, Plot No. 1340 Area Ac 12.30 dec Latitude 21° 34' 15.1" N to 21° 34' 20.5"N, Longitude 86° 47' 37.9"E to 86° 48' 2.0"E	0.744 KM	0.074KM	4.977 Ha	38248Cu M	52104 CuM	Auction Notice has been given			Non-working	Nil	Nil	Nil	Nil	Nil	Nil	
	5	Budhabalanga	Name of the sand source-Kathasangadali Mz. Kathasangada, Khata No. 286, Plot No. 123 Area Ac 0.30 dec, Plot No. 145, Area Ac. 1.52 dec & Mz. Haladia, Khata No. 458, Plot No. 1456 area Ac 6.00 dec, Plot No. 1952 area Ac 7.93 Latitude 21° 33' 18.4" N to 21° 33' 34.3"N, Longitude 86° 54' 42.4"E to 86° 54' 49.7"E	0.500 KM	0.074 KM	3.945 Ha	24074 CuM	27875 CuM	Auction Notice has been given			Non-working	Nil	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
6	Budhabalanga	Name of the sand source-Kathasangada- I I Mz. Kathasangada, Khata No. 286, Plot No. 106 Area Ac 2.60 dec Latitude 21° 33' 29" N to 21° 33' 43.8" N, Longitude 86° 54' 35.8" E to 86° 54' 42.3" E	0.475 KM	0.025 KM	1.052 Ha	7840 Cum	21040 Cum	Auction Notice has been given	Non-working	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
7	Suno	Name of the sand source-Boitabanka Mz. Ghungi Khata No. 261, Plot No. 338 Area Ac 5.00 dec , Plot No. 440 Area Ac 7.20 dec Latitude 21° 33' 31.9" N to 21° 33' 48.8" N, Longitude 86° 49' 21.0" E to 86° 49' 43.7" E	0.418 KM	0.149 KM	4.937 Ha	28216 Cum	35496 Cum	Auction Notice has been given	Non-working	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
8	Suno	Name of the sand source-Udambar Mz. Udambar Khata No. 211, Plot No. 1 Area Ac 8.20 dec Latitude 21° 33' 17.1" N to 21° 33' 22.6" N, Longitude 86° 53' 35.5" E to 86° 53' 57.1" E	0.633 KM	0.073 KM	3.318 Ha	27324 Cum	37599 Cum	Auction Notice has been given	Non-working	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	9	Budhabalanga	Name of the sand source-Ambulakuda Mz. Ambulakuda Khata No. 133, Plot No. 531 Area Ac 12.30 dec Latitude 21° 35' 4.1" N to 21° 35' 18.5" N, Longitude 86° 54' 11.2" E to 86° 54' 16.8" E	0.478 KM	0.108 KM	4.977 Ha	36065 Cum	42049 Cum	Auction Notice has been given			Non-working	Nil	Nil	Nil	Nil	Nil	Nil
	10	Budhabalanga	Name of the sand source-Makanda Mz. Makanda Khata No. 337, Plot No. 691 Area Ac 8.40 dec & Plot No. 692 Area Ac 3.82 dec Latitude 21° 34' 47.5" N to 21° 34' 54.9" N, Longitude 86° 54' 32.8" E to 86° 54' 57.9" E	0.79 KM	0.06 KM	4.945 Ha	20885 CuM	28526 Cum	Auction Notice has been given			Non-working	Nil	Nil	Nil	Nil	Nil	Nil
Total													200	0	0	975975	0	0
Jaleswar Tahasil																		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Jaleswar	1	Subarekha	Chalanti Sand Source Mouza-Chalanti, Latitude 21°46'53" N to 21° 47' 2.8"N, Longitude 87° 09' 58"E to 87° 10' 10.2"E Khata No-384 Plot No-738 Kissam Nadi	.06km	120meter	5.665hec	9000 CuM	18130 CuM	Soumendra Pattnaik Partner M/s Omm Sairam suppliers At/Po- Jumbalda, Ps- Jaleswar, Dist- Balasore	2017-18	2019- 20	Not Working	3000	Nil		upto 30.06.20 14,06,250/-	Nil	
Jaleswar	2	Subarekha	Sikharpur Sand Source Latitude 21°47'44.4" N to 21° 47'58.2"N, Longitude 87° 12' 20"E to 87° 12' 38.9"E Mouza- Sikharpur, Khata No- 496 Plot No- 1910, 1900 Kissam- Nadi	.2km	20meter	5.645 Ha	24062 CuM	56450 CuM	Otul Ojha S/o- Nakul Chandra Ojha At- Rajpur, Po/Ps- Jaleswar, Dist- Baleswar.	2016-17	2019- 20	Not Working	9000	Nil	Nil	upto 30.06.20 1,80,000/-	Nil	Nil
Jaleswar	3	Subarekha	River Block Ka sand source Latitude 21°48'32.9" N to 21° 48' 41.8"N, Longitude 87° 13' 3.8"E to 87° 13' 14.8"E Mouza-River Block, Khata No- 175 Plot No- 01, Kissam Nadi	.08km	50meter	5.665Ha	12000 CuM	23525 CuM	Sujay Kumar Karan, S/o- Banamali Karan, At- Bhanupur, Po- Mathuranat h, Ps- Jaleswar, Dist- Balasore	2017-18	2019- 20	Not Working	12300	Nil	Nil	2,10,000/- & 8,40,000/-	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Jaleswar	4	Subarnarekha	River Block Kha Sand Source Latitude 21° 48' 51.5" N to 21° 49' 1.9"N, Longitude 87° 12' 56.5"E to 87° 13' 6.1"E" Mouza- River Block, Khata No- 175 Plot No- 1 Kissam - Nadi	.075km	45meter	5.261 Ha	12000 CuM	23763 CuM	Rajesh Kumar Khatua, M/s Maa Hingul Enterprises , S/o- Tarakanta Khatua, At- Nayabazar, Santia, Ps- Jaleswar, Dist- Balasore	2017-18	2019-20	Not Working	12300	Nil	Nil	upto 30.06.20 3,00,000/-	Nil	Nil
Jaleswar	5	Subarnarekha	Balikbad Sand Source Latitude 21° 42' 39" N to 21° 42' 49"N, Longitude 87° 13' 26.2"E to 87° 13' 40"E" Mouza- Balikbad, Khata No- 399 Plot No- 49 Kissam Nadi	.3km	190 meter	6.01 hec	65208 CuM	114400 CuM	Soumyadeep Chakrabarti V, S/o- Sudhanshu Chakrabarti y Art- Khagadapal , Po- Badasimuli a, Ps- Baliapal, Dist- Balasore	2016-17	2018-19	Not Working	13500	Nil	Nil	4,72,500/- & 2,36,250/-	Nil	Nil

1	Jaleswar	6	Submarekha	<p>Praharajpur Ka Sand Source Latitude 21° 52' 17.5" N to 21° 52' 33.2" N, Longitude 87° 15' 9.7" E to 87° 15' 15.2" E" Mouza- Praharajpur, Khata No-466 Plot No- 1923 Kissam Nadi</p>	.44km	120meter	5.261 hec	29244 CuM	55440 CuM	Himanshu Sekhar Pradhan, S/o- Radhashya m Pradhan, At- Gopa, Po- Badasimuli a, P- Baliapal, Dist- Balasore	2016-17	2019- 20	Not Working	Nil	Nil	Nil	Nil	Nil	
2	Jaleswar	7	Submarekha	<p>Gobarghata Sand Source Latitude 21° 51' 10.5" N to 21° 51' 23.8" N, Longitude 87° 14' 17.7" E to 87° 14' 29.5" E" Mouza- Gobarghata, Khata No-1414 Plot No- 3236 Kissam Nadi</p>	.08km	55meter	7.082 hec	12000 CuM	26648CuM	Rajesh Kumar Khatua, M/s Maa Hingul Enterprises , S/o- Tarakanta Khatua, At- Nayabazar, Santia, P- Jaleswar, Dist- Balasore	2017-18	2019- 20	Not Working	Nil	Nil	Nil	Nil	Nil	Nil

1	Jaleswar	8	Subarnarekha	Makrampur Sand Source Latitude 21°51' 22.21" N to 21° 51' 32.12"N, Longitude 87° 14' 31.16"E to 87° 14' 43.90"E Mouza- Makrampur, Khata No- 01 Plot No- 06 Kissam Nadi	.08km	50 meter	6.070 hec	31646 CuM	60496 CuM	Prasanta Ku. Mohanty, S/o- Himanshu Sekhar Mohanty, At- Azimabad, Po/Ps- Balasore Town, Balasore	2016-17	2019- 20	Not Working	Nil	Nil	Nil	19
	Jaleswar	9	Subarnarekha	Sekhsarai Kha Sand Source Latitude 21° 46' 38.9" N to 21° 46' 56.3"N, Longitude 87° 09' 45"E to 87° 09' 58.3"E Mouza- Sekhsarai, Khata No- 142 Plot No- 2 Kissam Nadi	.014 km	40 meter	6.070 hec	33076 CuM	62892 cm	Laxminaray an Das S/o- Gajendra Das At- Rajpur, Po/ps- Jaleswar, Dist- Baleswar.	2016-17	2019- 20	Not Working	Nil	Nil	Nil	19

1	Jaleswar	10	Subarnarekha	Sekhsarai Ka Sand Source Latitude 21° 45' 26.1" N to 21° 45' 29.5" N, Longitude 87° 10' 17.8" E to 87° 10' 20.9" E Mouza- Sekhsarai, Khata No-142 No-02 Kissam Nadi	.08km	45meter	5.665 hec	22724 CuM	42487 CuM	Soumyadeep Chakrabarty, M/s Chandni Supply Agency S/o- Sudhanshu Chakrabarty AT- Khagadapal, Po- Badasimuli, Ps- Baliapal, Dist- Balasore	2015-16	2019-20	Non-working	Nil	Nil	Nil	Nil	Nil	
2	Jaleswar	11	Subarnarekha	Mankidia Sand Source "Ka" Mouza- Mankidia, Khata No-818 Plot No-01, Longitude 87° 14' 13.8" E to 87° 14' 28.4" E 21° 56' 21" N to 21° 56' 32.2" N,	0.335 KM	0.268 KM	8.096 Hac	102325 CuM	178528 CuM	Sushanta Ku. Sahoo AT/ po- Patharpura, Ps- Jaleswar Dist Balasore		0	Non-working	Nil	Nil	Nil	Nil	Nil	Nil
3	Jaleswar	12	Subarnarekha	Bilaspur Sand Source Mouza- Bilaspur, Khata No- 53 Plot No- 120	No mining plan prepared due to NGT Inter-State Matter				Auction not done due to NGT Matter and Inter State issue				Non-working	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Jaleswar	13	Subarnarekha	Praharajpur Kha Sand Source Mouza- Praharajpur, Khata No- 466 Plot No- 1923	No mining plan prepared due to NGT Inter-State Matter					Aauction not done due to NGT Matter and Inter State issue			Non-working	Nil	Nil	Nil	Nil	Nil	Nil
Jaleswar	14	Subarnarekha	Mankidia Sand Source "Kha" Mouza- Mankidia, Khata No- 618 Plot No- 1677	No mining plan prepared due to NGT Inter-State Matter					Aauction not done due to NGT Matter and Inter State issue			Non-working	Nil	Nil	Nil	Nil	Nil	Nil
Jaleswar	15	Subarnarekha	Mankidia Sand Source "Ga" Mouza-Mankidia, Khata No- 618 Plot No- 1677	No mining plan prepared due to NGT Inter-State Matter					Aauction not done due to NGT Matter and Inter State issue			Non-working	Nil	Nil	Nil	Nil	Nil	Nil
Jaleswar	16	Subarnarekha	Rajnagar Sand Bed, Mouza-Rajnagar, Khata No- 377 Plot No- 1295/1300 Latitude- 21°48' 20.9" N to 21°48' 30.9" N Longitude- 87°12' 43.2" E to 87°12' 52.2" E	0.328k m	0.178	5.48hec.	139563 CuM	164400 CuM	Smt. Laxmipriya Prusti, W/O- Ratikanta Rout, At- Balarampra sad, Po- Patia, Ps- Matang, Dist- Dhenkanal.			Non-working	Nil	Nil	Nil	Nil	Nil	Nil

1	Jaleswar	17	Subarekha	Gobardhanpur Sand Sairat Source Mouza-Gobardhanpur, Khata No-358 Plot No-1094, Area Ac. 12.00 dec out of Ac. 88.25 dec, Latitude- 21°43'2.2" N to 21° 43'14.6" N, Longitude- 87°12'6.5" E to 87°12'17.5"E	0.4km	0.122	4.856 hec	81848 CuM	97120 CuM	Not auctioned								19	
2	Jaleswar	18	Subarekha	Chandibasti Sand Source Mouza-Chormara, Khata No- 692 Plot No- 182, Area Ac. 10.00 dec out of Ac. 47.50 dec Latitude- 21°42'53.5"N to 21°42'59.9"N, Longitude 87°12'25.8"E to 87°12'40.4"E	0.402k m	0.102	4.046 Ha	33190 CuM	40460 Cum	Not auctioned									19
3	Jaleswar	19	Subarekha	Mouza-Baliapal, Khata No-578 Plot No- 2949, Area Ac. 03.00 dec out of Ac. 33.28 dec	0.318	0.515	4.856	41683	36267	Not auctioned								19	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Total																		
Basta tahasil																		
Basta	1	Submarekha	Area 5.188 (Hc), Benapura, Khata-152 Plot-282,284 Latitude- 21°46'11.5"N to 21°46'24.2"N, Longitude 87°09'43.7"E to 87°09'50.5"E	300mt	29.9 mt	8965 sq mt	7500 CuM	8965 cum	Rajesh Kumar Khatua S/O- Tarakanta Khatua, Vill- Nayabazar, Po/PS- Jaleswar, Dist- Balasore	03.05.2 016	02.05.2 020'	Not Working	1654500	1654500	1992107	1116	1002	688
Basta	2	Submarekha	Ara 5.876 (Hc), Benapura, Khata- 152, Plot No.285 Latitude- 21°45'28.2"N to 21°45'41.7"N, Longitude 87°10'03.5"E to 87°10'18.0"E	480 mt	110 mt	10045 sq mt	100706 CuM	117520 cum	Pradipta Kishore Chand, S/O- Satyanaray an Chand, Village- Nandika,Po /PS- Jaleswar, Balasore	27.10.2 016	26.10.2 021	Not Working	Nil	12718908	4960307	Nil	12907	5298
Basta	3	Submarekha	Area 7.40 (Hc) Ambakuduchi, Khata- 304, Plot-1450 Latitude- 21°43'46" N to 21°43'54.7"N Longitude-87°12'5.4" E to 87°12'16.5"E	0.329K. M	0.101 K.M	2.99 Hac	59889 CuM	74,750 Cum	Pankaj Kumar Jena, S/O- Basanta Kumar Jena, At- Sekhbad, PO/PS- Jaleswar, Dist- Balasore	14.12.2 020	13.12.2 025	Not Working	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Basta	4	Subarnarekha	Area 34.45 (Hc), Debhog, Khata- 392, Plot- 1178 Latitude- 21°44' 05.1" N to 21°44' 16.3" N Longitude-87°12' 30" E to 87°12' 42.8"E	0.446 K.M	0.146 K.M	5.00 Ha	128250 CuM	150000Cu M	Niranjan Pradhan, S/o- Ramahari Pradhan At- Datunida Debhog, Ps- Baliapal, Dist- Balasore.	23.11.2 020	22.11.2 025	Not Working	Nil	Nil	Nil	Nil	Nil	Nil
Basta	5	Subarnarekha	Area 12.35 (Hc), Kadarayan, Khata- 257, Plot-01 Latitude- 21°44' 45.0" N to 21°45' 56.1" N Longitude-87°12' 30.8" E to 87°12' 42.1"E	0.344 K.M	0.154 K.M	5.00 Ha	106875 CuM	125000Cu M	Bhabesh Kumar Ghosh, S/O- Purna Chandra Ghosh, VIII- Dharastock, Po/Ps Jaleswar, Dist- Balasore	02.12.2 020	01.12.2 025	Not Working	Nil	Nil	Nil	Nil	Nil	Nil
Basta	6	Subarnarekha	Area 18.95 (Hc), Dhitpura, Khata- 97, Plot-214 Latitude- 21°45' 05.0" N to 21°45' 10.1" N Longitude-87°11' 01.6" E to 87°11' 14.6"E	0.378 K.M	0.142 K.M	5.00 Ha	106875 CuM	125000Cu M	Sawmyadip Chakrabart y, S/o- Sudhansu Sekhar Chakravbar ty, At- Khagadapal , Po- Badasirmuli a, P.S- Baliapal, Dist, Balasore	29.01.2 021	28.01.2 021	Not Working	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Basta	7	Jalaka River	Area Ac.0.72 dec, Khata No. 143 Plot No. 37 Mz.- MathaniKhata No. 227 Plot No. 25 Mz. PunsitaArea Ac 2.36 dec, Latitude- 21°40' 08.2" N to 21°40' 30.8"N Longitude-87°03' 53.2" E to 87°04' 1.9"E	0.771 K.M	0.019 K.M	1.246 Ha	4630 CuM	12460CuM	Not yet finalised			Non Working	Nil	Nil	Nil	Nil	Nil	Nil	
Total													1654500	14373408	6952414	1116	13909	5986	
Baliapal Tahasil																			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Ballipal	1	Subarnarekha	<p>Mouza- Badhapal, i) Khata No. 717, Plot No. 973 area Ac. 4.14 dec, Plot No. 973/2548 area Ac. 0.52 dec, Plot No. 989 area Ac. 1.15 dec, ii) Khata No. 718, Plot No. 955 area Ac. 0.26 dec, Plot No. 956 area Ac. 0.14 dec, Plot No. 969 area Ac. 0.16 dec, Plot No. 990 area Ac. 0.12 dec, Plot No. 1193 area Ac. 0.10 dec, Plot No. 1194 area Ac. 0.14 dec, Plot No. 1198 area Ac. 0.34 dec, Plot No. 1199 area Ac. 0.53 dec, Plot No. 1200 area Ac. 0.07 dec, Plot No. 1201 area Ac. 0.10 dec, Plot No. 1205 area Ac. 0.44 dec, Plot No. 1498 area Ac. 0.15 dec, Latitude 21° 41' 13.7" N to 21° 41' 25.5" N, Longitude 87° 17' 50.5" E to 87° 18' 02.2" E</p>	0.513 KM	0.070 KM	3.383 Heec	35884 CuM	99900 CuM	<p>Project Proponent i.e. T & T UJV has been asked to deposit quarry permit</p>	2021-22	Tempo ry permit issued	Non Working	Nil	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	
Ballapal	2	Subarnarekha	Mouza- Palabegunia, i) Khata No.470, Plot No. 270 area Ac. 1.00 dec, Plot No. 377 area Ac. 1.38 dec, Plot No. 378 area Ac. 2.64 dec, Plot No. 786 area Ac. 0.69 dec, Plot No. 793 area Ac. 0.17 dec, Plot No. 799 area Ac. 3.00 dec, Latitude 21° 41' 10.0" N to 21° 41' 37.6" N, Longitude 87° 14' 25"E to 87° 14' 35.8"E	0.889 KM	0.058 KM	3.60 Ha	39349.8 CuM	108000 Cum	Not fixed	2021-22	2026-27	Non Working	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Balasure Tahasil																			
Balasure	1	Budhabalanga	Area 41.015 (HC), Kasoba dahapada, Khata No. 143, Plot- 837, Khata- 653, Plot- 124, 210, 209, 1429 & 1483 Latitude 21° 31' 55.9" N to 21° 32' 48.2" N, Longitude 86° 55' 23.1" E to 86° 56' 26.2" E	4.339 Kms	0.100 KM	41.01 Ha.	40000 cum	40000 cum	Karunkar Das, S/o- Balabhadra Das, Vill- Gambharia, samil- Kantabania	2017-18	2021-22	Working	34000	37400	37712	1258000	1383800	1395344	
Nilgiri Tahasil																			
Total																			
													0	37400	2816060	0	40000	40000	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	1	Suno	Vill- Bainchanaranpur- I,Khata-266, Plot- 383,384, KISAM- River Latitude 21°34' 57.1" N to 21° 35' 11.5"N, Longitude 86° 42' 51.9"E to 86° 43' 1.5"E	0.549 KM	0.121 KM	4.99 Ha	90805 CuM	166950 CuM	Animesh Ghosh, Sahadev hunta	2015- 16	2019- 20	Not Working	Nil	Nil	8550	Nil	Nil	11430000
Nilgiri																		
	2	Suno	Pratappur Sand source,Khata- 814,Mz - Ajodhya,Plot- 388,KISAM-River Latitude 21°34' 19.9" N to 21° 35' 27.8"N, Longitude 86° 44' 53.4"E to 86° 45' 12.9"E	0.612 KM	0.089 KM	4.95 Ha	37812 CuM	43549 Cum	Kailash Ch. Mohanty, Vi-- Podasul	2015- 16	2019- 20	Not Working	5000	10000	0	1195000	2390000	0
Nilgiri																		
	3	Suno	Balipal sand Source,Mouza- balipal,Khata- 156,Plot-7, Area Ha. 1.82 Plot No. 495, area Ha 3.15, KISAM-River Latitude 21°34' 28.3" N to 21° 34' 38.2"N, Longitude 86° 43' 48.0"E to 86° 44' 34.2"E	0.93 KM	0.048 KM	4.977 Ha	39661 CuM	56216 CuM	Animesh Ghosh,Sa hadevkh unta	2015- 16	2019- 20	Not Working	5000	20000	450	850000	2550000	1507500
Nilgiri																		

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
4	Suno		Pundal Sand Source- 1.Mouza- pundal,khata-556 ,Plot-1347 area- 12.350 dec.Latitude 21° 34' 40.7" N to 21° 34' 50.8' 36"N, Longitude 86° 46' 24.3"E to 86° 46' 34.9"E°	0.302 KM	0.183 KM	4.99 Ha	51468 CuM	56989 CuM	Padma Lochan Jena S/O Ananta Jena, At- Bhaskar ganj. for Pundal-I	2015- 16	2019- 20	Not Working	Nil	15600		Nil	2714400	
5	Suno		Pundal Sand Source- 2.Mouza-pundal,khata- 556 ,Plot-1347area-AC 3.40 dec. Latitude 21° 34' 35.6" N to 21° 34' 41.6"N, Longitude 86° 46' 47.5"E to 86° 46' 52.3"E°	0.302 KM	0.183 KM	4.99 Ha	51468 CuM	56989 CuM	Padma Lochan Jena S/O Ananta Jena, At- Bhaskar ganj. for Pundal-I	2015- 16	2019- 20	Not Working	18000	18000		9864000	11430000	

Niigri

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
	6	Suno	Mz-Dumagandira , Khata 157(AAA) Plot No. 385 Kisam River, Area H.0.849Mz.Laichampur , Khata No. 155 (AAA), Plot-36, Kisam-Nadi, Area-H4.148 Latitude 21°34' 21.7" N to 21° 34' 27.4"N, Longitude 86° 48' 56.7"E to 86° 49' 10.9"E	0.403 KM	0.116 KM	5.00 Ha.	37830 CuM	41931 CuM	Ashok Kumar Nayak, S/O- Nityanand a Nayak, At- Podasol	2015- 16	2019- 20	Not Working	9000	18000	1638000	1507500		
Nilgiri																		
	7	Suno River	Mz-Ajodhya , Khata - 814, Plot No. 1412, Kisam -River, Area- Ac12.35dec. Latitude 21°34' 05.20" N to 21° 34' 20.22"N, Longitude 86° 45' 32.36"E to 86° 45' 39.90"E	0.504 KM	0.110 KM	1- Area- 5.000 Ha.	33581 Ha	37947 Ha	Not auctioned			Non Working	Nil	Nil	317000			
Nilgiri																		
	8	Baincha narannp ur sand source- 3	Mz- Baincha Naranpur, Khata No. 266, Plot No. 516, Kisam Nadi, Area Ac8.70 dec Latitude- 21°35'10.5"N to 21°35'14.1"N, Longitude 86°42'20.2"E to 86°42'35.5"E	0.44	0.16	3.520 Ha.	164.08	66549	Not auctioned			Non Working	Nil	Nil	Nil	Nil		
						Total							37000	81600	9000	13547000	20908900	12937500

Tahasil	SI No	Name of the river or stream	Name of the source	Khata, Plot, area, Mouza	Longitude	Latitude	Width of the river	Distance of the source area from river embankment	Distance from nearest road/railway bridge	Distance from nearest sand mining source	Distance from school, temple etc.	Distance from nearest Eco-Sensitive Zone/ Wildlife sanctuary	Whether there is any cluster situation on the source located	Year-wise deposition of sand in the stretch of river where the source is located	Year-wise depletion of sand in the stretch of river where the source is located	Rate of replenishment of sand in the stretch of river where the source is located	Quantum of sand that can be sustainably extracted year to year	Production of mineral for last five years (Year wise)					Royalty collected for last three years	
																		2020-21	2021-22	2022-23	2020-21	2021-22		2022-23
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25

Remuna Tahasil

Remuna	1	Suno	Purukhi	K-420 P-1340 Ar 12.30 M-Purukhi	86°47'37.9"E to 86°48'2.0"E	21°34'15.1"N to 21°34'20.5"N	130 mtr	50 mtr	Road 2.2 Km. & Railway 14.5Km	2.5 Km	150 Mtr	School 1.5 Km & Temple 300 Mtr	Similipal 34 Km Kuldaha Wildlife Sanctuary 14.4 Km	NO	38000 Cum	Nil	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil
Remuna	2	Suno	Boitabank	K-261 P-338, 440 Ar. 12.20 M-Ghungi	86°49'21.0"E to 86°49'43.7"E	21°33'31.9"N to 21°33'48.8"N	168 mtr	225 mtr	Road 235 m. & Railway 11.5Km	2.5 Km	100 Mtr	School 1.4 Km & Temple 200 Mtr	Similipal 30.5 Km Kuldaha Wildlife Sanctuary 14.4 Km	NO	28000 Cum	Nil	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil
Remuna	3	Suno	Hatigand	K-313, P-223, 1121 Ar. 7.00 M-Hatiagand, K-197 P-3 Ar. 1.35 M-Mukundapur & K-69, P-1 Ar. 4.00 M-Patripal	86°51'38.9"E to 86°51'58.8"E	21°32'57.4"N to 21°33'2.7"N	150 mtr	190 mtr	Road 190 m. & Railway 7 Km	2.6 Km	200 Mtr	School 1 Km & Temple 300 Mtr	Similipal 43.5 Km Kuldaha Wildlife Sanctuary 16.22 Km	NO	28000 Cum	Nil	To be submitted after replenishment study	can be evaluated after replenishment study	200	Nil	975975	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Remuna	4	Budhabalanga	Makanda	K-337 P- 691, 692 Ar. 12.22 M- Makanda	86°54'32.8"E to 86°54'57.9"E	21°34'47.5"N to 21°34'54.9"N	120 mtr	300 mtr	Road 1.1 Km. & Railway 6.7Km	2.5 Km	250 Mtr	School 500 Mtr & Temple 300 Mtr	Similipal 47.39 KmKuidiha Wild life Sanctuary 21.9 Km	NO	20500 Cum	Nil	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil
Remuna	5	Budhabalanga	Ambulakuda	K-133 P-531 Ar 12.30 M- Ambulakuda	86°54'11.2"E to 86°54'16.8"E	21°35'4.1"N to 21°35'18.5"N	130 mtr	150 mtr	Road 2.2 Km. & Railway 7.5 Km	2.5 Km	150 Mtr	School 500 Mtr & Temple 200 Mtr	Similipal 46.33 Km Kuidiha Wild life Sanctuary 22.5 Km	NO	36000 Cum	Nil	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil
Remuna	6	Budhabalanga	Sahupada & Dumuda	K-223 P- 237,238,239,240 Ar. 7.50 M- Sahupada & K 281 P-15 Ar - 4.85 M- Dumuda	86°54'51.6"E to 86°55'13.2"E	21°33'51.6"N to 21°33'56.2"N	82 mtr	150 mtr	Road 1.8 Km. & Railway 4.5 Km	750 Mtr	100 Mtr	School 500 Mtr & Temple 500 Mtr	Similipal48.42 Km Kuidiha Wild life Sanctuary 21.6 Km	NO	40000 Cum	Nil	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil
Remuna	7	Suno	Udambar	K-211 P-1 Ar 8.20 M- Udambar	86°53'35.5"E to 86°53'57.1"E	21°33'17.1"N to 21°33'22.6"N	140 Mtr	850 mtr	Road 2.0 Km. & Railway 5.0 Km	2.6 Km	200 Mtr	School 1.2 Km & Temple 1.0 Km	Similipal 46.67 Km Kuidiha Wild life Sanctuary 19.24 Km	NO	27000 Cum	Nil	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil
Remuna	8	Budhabalanga	Kathasangada-I	K-458, P-1952 Ar 7.93 M- Haladia & K- 286 P-123 , 145 Ar 1.82 M- Kathasangada	86°54'42.4"E to 86°54'49.7"E	21°33'18.4"N to 21°33'34.3"N	220 Mtr	300 Mtr	Road 1.4 Km. & Railway 4.5 Km	550 Km	700 Mtr	School 1.5 Km & Temple 1.2 Km	Similipal 47.7 KmKuidiha Wild life Sanctuary 15 Km	NO	24000 Cum	Nil	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil
Remuna	9	Budhabalanga	Kathasangada-II	K-286 P-106 Ar 2.60 M- Kathasangada	86°54'35.8"E to 86°54'42.3"E	21°33'29.0"N to 21°33'43.8"N	250 Mtr	120 Mtr	Road 1.4 Km. & Railway 4.5 Km	550 Km	700 Mtr	School 1.5 Km & Temple 1.2 Km	Similipal47.51 KmKuidiha Wild life Sanctuary 15 Km	NO	7500 Cum	Nil	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Remuna	10	Budhabalanga	Gambharia Rudragopalur samil Naharpatana	K-430 P-574, 722 Ar. 35.93 M- Gambharia & K- 236 P- 1, 510 Ar. 50.06 M - Rudragopalur samil Naharpatana	86°54'55" E to 86°55'16" E	21°32'14" N to 21°33'01" N	300 Mtr	100 Mtr	Road 0 Km. & Railway 2.0 Km	850 Mtr	200 Mtr	School 1.0 Km & Temple 0.8 Km	Similipal 48.6 Km Kuidiha Wild life Sanctuary 20.40 Km	NO	Nil	Nil	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil
																			200	0	0	975975	0	0

Jaleswar Tahasil

Jaleswar	1	Subarnarekha	Chalanti Sand Source	Mouza-Chalanti, Khata No-384 Plot No-738 Ac:14.00	87° 09' 58"E to 87° 10' 10.2"E	21° 46' 53" N to 21° 47' 2.8"N	800M	1KM	Road 1.0 Km. & Railway 1.5 Km	1KM	800M	School 900 Mtr & Temple 1.0 Km.	Similipal 58 Km, Kuidiha Wild life Sanctuary 55.8. Km	No	30,000	5,000 (P/a)	To be submitted after replenishment study	can be evaluated after replenishment study	3000	Nil		upto 30.06.20 14,06,250/-	Nil	Nil
Jaleswar	2	Subarnarekha	Sikharpur Sand source	Mouza-Sikharpur, Khata No- 496 Plot No- 1910, Ac.9.00, Ac.3.00	87° 12' 20"E to 87° 12' 38.9"E	21° 47' 44.4" N to 21° 47' 58.2"N	550m	600m	Road 5.1 Km. & Railway 5.6 Km	600M	300M	School 1.6 Km. & Temple 0.7 Km.	Similipal 64 Km, Kuidiha Wild life Sanctuary 62 Km	No	40,104	1st year- 5200, 2nd- 8700, 3rd- 10,300, 4th- 10,900, 5th- 12,031	To be submitted after replenishment study	can be evaluated after replenishment study	9000	Nil		upto 30.06.20 1,80,000/-	Nil	Nil
Jaleswar	3	Subarnarekha	River Block Sand Source (Ka)	Mouza-River Block, Khata No- 175 Plot No- 01, Ac:14.00	87° , 13' 3.8"E to 87°-13' 14.8"E	21° 48' 32.9" N to 21° 48' 41.8"N	850M	600M	Road 7.5 Km. & Railway 7.0 Km	550m	400m	School 0.6 Km. & Temple 0.5 Km.	Similipal 61 Km, Kuidiha Wild life Sanctuary 64 Km	No	20,000 (P/a)	20,000 (P/a)	Under Progress to be submitted in December 2022	can be evaluated after replenishment study	12300	Nil		2,10,000/- & 8,40,000/-	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
Jaleswar	4	Subarnarekha	River Block Sand Source (Kha)	Mouza-River Block, Khata No- 175 Plot No-1 Ac.13.00	87° , 12' 56.5"E to 87°13' 6.1"E	21° 48' 51.5"N to 21° 49' 1.9"N	700M	600M	Road 7.5 Km. & Railway 7.5 Km	550M	350m	School 0.6 Km. & Temple 0.5 Km.	Simlipal 61 Km, Kuldihana Wildlife Sanctuary 64 Km	No	20,000 (P/a)	0,000 (P/a)	Under Progress to be submitted in December 2022	can be evaluated after replenishment study	12300	Nil	Nil	upto 30.06.20 3,00,000/-	Nil	Nil	Nil	
Jaleswar	5	Subarnarekha	Bailekbad Sand Source	Mouza-Bailekbad, Khata No- 399 Plot No- 49 Ac.14.85	87° , 13' 26.2"E to 87°13' 40"E	21° 42' 39"N to 21° 42' 49"N	500m	300m	Road 8.3 Km. & Railway 8.7 Km	1km	500m	School 0.7 Km. & Temple 0.85 Km.	Simlipal 67 Km, Kuldihana Wildlife Sanctuary 60 Km	No	1,08,680	1st year- 7560, 2nd year- 12,420, 3rd year- 16,500, 4th year- 18,150, 5th year- 14,400	To be submitted after replenishment study	can be evaluated after replenishment study	13500	Nil	Nil	4,72,500/-, & 2,36,250/-	Nil	Nil	Nil	
Jaleswar	6	Subarnarekha	Praharajpur Sand Source (Ka)	Mouza-Praharajpur, Khata No- 466 Plot No- 1923, Ac.13.00	87° , 15' 9.7"E to 87°15' 15.2"E	21° 52' 17.5"N to 21° 52' 33.2"N	580M	1km	Road 5.2 Km. & Railway 14.5 Km	800M	700M	School 0.7 Km. & Temple 0.6 Km.	Simlipal 64 Km, Kuldihana Wildlife Sanctuary 70 Km	No	48,740	1st year- 2982, 2nd year- 33,25, 3rd year- 3510, 4th year- 4600, 5th year- 4250	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Jaleswar	7	Subarnarekha	Gobarghata Sand Source nearest to Dakhinapraharajpur	Mouza-Gobarghata, Khata No. 1414, Plot No. 3236, Area Ac.17.50, Kisam- Nadi	87° , 14' 14.7"E to 87°14' 29.5"E	21°51' 10.5"N to 21°51' 23.8" N	470M	200M	Road 3.3 Km. & Railway 12.5 Km	600M	250M	School 0.5 Km. & Temple 0.6 Km.	Simlipal 63 Km, Kuldihana Wildlife Sanctuary 66 Km	No	20,000	20,000	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
Jaleswar	8	Subarnar ekha	Makrampur sand source	Mouza- Makrampur, Khata No. 01, Plot No. 06, Area Ac15.00, Kisam- Nadi	87° , 14' 31.16"E to 87°14' 43.90"E	21°51' 22.21"N to 21°51' 32.12" N	500m	500m	Road 5.0 Km. & Railway 13.0 Km	550m	450M	School 1.0 Km. & Temple 1.1 Km.	Similipal 64 Km, Kuldiha Wild life Sanctuary 68 Km	No	1st year- 53,419, rest 4 years 52,743 (p/a)	1st year- 33,100 2nd year- 41,650, 3rd year- 46,000, 4th year- 50,200, 5th year- 55,126	To be submitted after replenishm ent study	can be evaluated after replenishm ent study	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Jaleswar	9	Subarnar ekha	Sekh Sarai Sand Source(K ha)	Mouza- Sekhsarai, Khata No-142 Plot No-2, Ac:15.00	87° , 09' 45"E to 87°09' 58.3"E	21°46' 38.9"N to 21°46' 56.3" N	500M	2.5km	Road 0.5 Km. & Railway 1.1 Km	600m	550m	School 0.65 Km. & Temple 0.5 Km.	Similipal 64.75 Km, Kuldiha Wild life Sanctuary 57 Km	No	2,06,250		To be submitted after replenishm ent study	can be evaluated after replenishm ent study	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Jaleswar	10	Subarnar ekha	Sekh Sarai Sand Source(K a)	Mouza- Sekhsarai, Khata No-142 Plot No-02 Ac:14.00	87° , 10' 17.8"E to 87°10' 20.9"E	21°45' 26.1"N to 21°45' 29.5" N	550M	2.5km	Road 1.0 Km. & Railway 1.5 Km	600M	1.1KM	School 1.0 Km. & Temple 0.6 Km.	Similipal 64.75 Km, Kuldiha Wild life Sanctuary 57 Km	No	37874 (p/a)	37874 (p/a)	Under Progress to be submitted in December 2022	can be evaluated after replenishm ent study	Nil	Nil	Nil	Nil	Nil	Nil	Nil	
Jaleswar	11	Subarnar ekha	Mankidia Sand Source(K a)	Mouza- Mankidia, Khata No. 818, Plot No. 01, Area Ac20.00, Kisam- Nadi	87° , 14' 13.8"E to 87°14' 28.4"E	21°56' 21"N to 21°56' 32.2" N	920M	600m	Road 20.5 Km. & Railway 20.0 Km	640M	500M	School 1.0 Km. & Temple 0.6 Km.	Similipal 65 Km, Kuldiha Wild life Sanctuary 77 Km	No	1,78,528	per year 60,000	Under Progress to be submitted in December 2022	can be evaluated after replenishm ent study	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Jaleswar	12	Subarnarekha	Bilaspur Sand Source	Mouza-Bilaspur, Khata No- 53 Plot No- 120, Ac.80.20	87° 24' 14.63"	21°96' 40.35"	800M	1KM	16KM	1KM	600M	700M	Similipal 86 Km, Kuldihana Wildlife Sanctuary 78 Km	No	Nil	Nil	Nil	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	
Jaleswar	13	Subarnarekha	Praharajpur(Kha) Sand Source	Mouza-Praharajpur, Khata No- 466 Plot No- 1923, Ac.15.00	87° 24' 97.36"	21°87' 18.36"	400M	700m	15km	600M	500M	800M	Similipal 77 Km, Kuldihana Wildlife Sanctuary 70 Km	No	Nil	Nil	Nil	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	
Jaleswar	14	Subarnarekha	Mankidia Sand Source(Kha)	Mouza-Mankidia, Khata No. 818, Plot No. 1677, Area Ac40.00, Kisam- Nadi			920M	800m	Road 21.0 Km. & Railway 20.8 Km	640M	500M	School 1.1 Km. & Temple 0.65 Km.	No	Nil	Nil	Nil	Nil	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	
Jaleswar	15	Subarnarekha	Mankidia Sand Source(Ga)	Mouza-Mankidia, Khata No. 818, Plot No. 1677, Area Ac35.00, Kisam- Nadi			915M	600M	Road 21.0 Km. & Railway 15.0 Km	540M	500M	School 1.1 Km. & Temple 0.7 Km.	No	Nil	Nil	Nil	Nil	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	
Jaleswar	16	Subarnarekha	Rajnagar Sand Source	Mouza-Rajnagar, Khata No- 377 Plot No- 1295/1300 Ac.13.55	87° 12'43.2" E to 87°12' 52.2"E	21°48' 20.9"N to 21°48' 30.9" N	780M	1.8 km	Road 6.5 Km. & Railway 6.0 Km	600M	500M	School 0.28 Km. & Temple 0.3 Km.	No	Per year 1,39,563 m ³	per year 40,002	per year 40,002	Nil	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Jaleswar	17	Subarnarekha	Gobardhanpur Sand Source	Mouza-Gobardhanpur, Khata No. 358, Plot No. 1094, Area Ac12.00, Kisam- Nadi	87°12'6.5" E to 87°12' 17.5"E	21°43' 2.2"N to 21°43' 14.6" N	700m	550m	Road 7.69 Km. & Railway 8.08 Km	600m	500M	School 0.6 Km. & Temple 0.45 Km.	No	1st year 81,500, 2nd to 4 years 2,61,912 (p/a)	1st year 81,500, 2nd to 5th - 65,000 (p/a)	1st year 81,500, 2nd to 5th - 65,000 (p/a)	Nil	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Jaleswar	18	Subarnarekha	Chandibasti Sand Source	Mouza-Chormara, Khata No. 692, Plot No. 182, Area Ac10.00, Kisam- Nadi	87°12'25.8"E to 87°12'40.4"E	21°42'53.5"N to 21°42'59.9"N	450m	650m	Road 7.0 Km. & Railway 7.48 Km	560	0.5KM	School 0.65 Km. & Temple 0.75 Km.	Similipal 67.80 Km, Kuldaha Wild life Sanctuary 56.42 Km	No	66,000	66,380	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Jaleswar	19	Subarnarekha	Baliapal Sand Source	Mouza-Baliapal, Khata No. 578, Plot No. 2949, Area Ac12.00, Kisam- Nadi	87°13'32.5"E to 87°13'46.1"E	21°42'33"N to 21°42'41.0"N	600m	800m	Road 9.5 Km. & Railway 10.0 Km	1km	300m	School 0.6 Km. & Temple 1.0 Km.	Kuldaha Wild life Sanctuary 57km	No	NA	NA	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	Nil
																			50100	0	0	3645000	0	0	

Basta Tahasil

Basta	1	Subarnarekha	Benapura-II	Kh.No.152 Pl. No. 285 Ac.14.52 or 5.87 Hec. Mz:- Benapura	87°10'03.5"E to 87°10'18.0"E	21°45'28.2"N to 21°45'41.7"N	534 mtr	550 mtr	Road 0.55 Km. & Railway 1.0 Km	1.2 km	100 mtr	School 0.3 Km. & Temple 0.4 Km.	Similipal 58 Km, Kuldaha Wild life Sanctuary 57.2. Km	No	1 st yr-20090 Nil 2nd yr-7750 3rd yr 20140 4th yr-20170 5th yr-12184	1 st yr- Nil 2nd yr-12340 3rd yr Nil 4th yr- Nil 5th yr-7854	To be submitted after replenishment study	can be evaluated after replenishment study	20140	20170	12182	10875600	10891800	6578280
Basta	2	Subarnarekha	Dhitpura	Kh.No.97 Pl. No. 214 Ac.12.35 or 5 Hec. Mz:- Dhitpura	87°11'01.6"E to 87°11'14.6"E	21°45'05.0"N to 21°45'10.1"N	730 mtr.	2 Km.	Road 2.48 Km. & Railway 2.85 Km	1 km	250 mtr	School 1.5 Km. & Temple 0.39 Km.	Similipal 58 Km, Kuldaha Wild life Sanctuary 56.0. Km	No	1st yr-30,000 2nd yr-30,000 3rd yr-30,000 4th yr-30,000 5th yr-30,000	3,000 cum	Under Progress to be submitted in December 2022	can be evaluated after replenishment study	Nil	30,000	Nil	Nil	11313000	Nil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Basta	3	Subarnarekha	Kadarayan	Kh. No. 257 Plot No. 1 Ac.12.35 or 5 Hec Mz: Kadrayan	87°12'30. 8"E to 87°12'42. 1"E 1"N	21°44'45. 0"N to 21°44'56. 1"N	750 mtr	200 mtr	Road 5.0 Km. & Railway 5.2 Km	820 mtr	100 mtr	School 0.18 Km. & Temple 0.3 Km.	Similipal 58 Km, Kuldaha Wild life Sanctuary 60. Km	No	1st yr- 30,000 2nd yr.30,00 0, 3rd yr.30,00 0 4th yr. 30,000 5th yr- 30,000	4500 cum	Under Progress to be submitted in December 2022	can be evaluated after replenishm ent study	Nil	30,000	Nil	Nil	6505000	Nil
Basta	4	Subarnarekha	Devog	Kh. No. 392 Plot No. 1178 Ac.12.35 or 5 Hec Mz: Devog	87°12'30. 0"E to 87°12'42. 8"E 3"N	21°44'05. 1"N to 21°44'16. 3"N	500mtr	600 mtr	Road 5.6 Km. & Railway 6.0 Km	605 mtr	350 mtr	School 0.59 Km. & Temple 1.3 Km.	Similipal 58 Km, Kuldaha Wild life Sanctuary 57.4. Km	No	1st yr- 40,002 2nd yr.40,00 2, 3rd yr.40,00 2 4th yr. 40,002 5th yr- 40,002	6000.3	Under Progress to be submitted in December 2022	can be evaluated after replenishm ent study	Nil	40002	Nil	Nil	5596280	Nil
Basta	5	Subarnarekha	Ambakuruchi	Kh. No. 304 Plot No. 1450 Ac.7.40 or 2.99 Hec Mz: Ambakuruchi	87°12'05. 4"E to 87°12'16. 5"E 7"N	21°43'46. 6"N to 21°43'54. 7"N	400 mtr	1.3 km	Road 5.5 Km. & Railway 5.9 Km	605 mtr	300 mtr	School 0.51 Km. & Temple 1.5 Km.	Similipal 58 Km, Kuldaha Wild life Sanctuary 56.3. Km	No	1st yr- 20,000 2nd yr.20,00 0, 3rd yr.20,00 0 4th yr. 20,000 5th yr- 20,000	4000 cum	Under Progress to be submitted in December 2022	can be evaluated after replenishm ent study	Nil	20000	Nil	Nil	3470000	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Basta	6	Subarnarekha	Benapura	Kh. No. 152 Plot No. 282 Ac. 3.72, 284 Ac. 9.10 or 5.188 Hec Mz: Benapura	87°09'43. 7"E to 87°09'50. 5"E	21°46'11. 5"N to 21°46'24. 2"N	390 mtr	300 mtr	Road 0.7 Km. & Railway 0.3 Km	1.2 Km.	200 mtr	School 1.5 Km. & Temple 0.5 Km.	Similipal 58 Km, Kuldih Wild life Sanctuary 57.2. Km	NA	2016-17- 1500 2017-18- 1500, 2018-19- 1500 2019-20- 1500 2020-21- 1500	Nil	NA	NA	1500	1500	1654500	1654500	1654500	Nil
Basta	7	Jalaka River	Mathani Punsita	Mouza- Mathani, Kh. No. 143 Plot No. 37 Ac. 0.72, Mouza- Punsita, Khata No. 227, Plot No. 25, Ac. 2.36, or 1.246 Hec	87°03'53. 2"E to 87°04'1.9 "E	21°40'08. 2"N to 21°40'30. 8"N	20 mtr	1.8 km	Road 0.55 Km. & Railway 2.2 Km	15 km	10 mtr	School 0.28 Km. & Temple 0.22 Km.	Similipal 58 Km, Kuldih Wild life Sanctuary 40.7. Km	No	1st yr- 4.630 2nd yr.4.630, 3rd yr.4.630 4th yr. 4.630 5th yr- 4.630	Nil	To be submitted after replenishm ent study	can be evaluated after replenishm ent study	Nil	Nil	Nil	Nil	Nil	Nil
																			21640	141672	12182	12530100	39430580	6578280

Baliapal Tahasil

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Baliapal	1	Subarnarekha	Badhapal	Khata No. 717, Plot No. 973, 973/2548, 989, Khata No.718 Plot No. 955, 956, 969, 990, 1193, 1194, 1200, 1201, 1205, 1498, Area Ac.8.36, Mouza: Bedhapal	87 17°50.5" E to 87 18°02.2E	21 41°13.7"N to 21 41°25.5"N	790 mtr	650 mtr	Road 1.1 Km. & Railway 16.5 Km	5 Km	0.5 Km	School 0.55 Km. & Temple 0.2 Km.	Kuldiha Wild life Sanctuary 62.8 Km	No	59,808	Replenishment study not mandated for the year 2022-23	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Baliapal	2	Subarnarekha	Palbegunia	Khata No. 470, plot No. 270, 377, 378, 786, 793 & 799, Area Ac. 8.88, Mz. Palabegunia	87 14°25.0" E to 87 14°35.8" E	21 41°10.0" N to 21 41°37.6" N	790 mtr	100 mtr	Road 5.0 Km. & Railway 11.0 Km	5 Km	1.0 Km	School 0.45 Km. & Temple 0.55 Km.	Kuldiha Wild life Sanctuary 58 Km	No	65,658 Cu.M	Replenishment study not mandated for the year 2021-22	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	Nil

Balasore Tahasil

Balasore	1	Budhabalinga	Kasaba Dahapada	Khata No-653,Plot No. 209-Ac 15.44,210-Ac 22.00 1429-Ac 12.17 Mouza-Kasba 1483-Ac 18.94 124-Ac 18.55Khata No.143, Plot No. 837—Ac 14.25 Mouza-Dahapada	86°55' 23.1"E to 86°56.26. 2"E	21°31'55. 9"N to 21°32'48. 2"N	1 M or up to water table whichever is less	50 mtr	Road 0 Km. & Railway 1.5 Km	2km	550 mtr	School 0.23 Km. & Temple 0.55 Km.	Kuldiha Wild life Sanctuary 21 Km	No	10400cum	Replenishment study not mandated for the year 2021-22	To be submitted after replenishment study	can be evaluated after replenishment study	34000	37400	37712	1258000	1383800	1395344
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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
Nilgiri Tahasil																									
Nilgiri	1	Suno	Pundal-1 Sand bed	Khata-556, Plot 1347, Area-A 12.35, Mouza-Pundal	86 deg 46' 24.3" E to 86 deg 46' 34.9" E	21 deg 34' 40.7" N to 21 deg 34' 50.8" N	368 m	100 m	Road 0.65 Km. & Railway 17.0 Km	520 mtr	600 mtr	School 1.0 Km. & Temple 0.65 Km.	Kuldiha Wild life Sanctuary 12.61 km	No	25000	Replenishment study not mande for the year 2021-22	Under Progress to be submitted in December 2022	can be evaluated after replenishment study	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Nilgiri	2	Suno	Pundal-2 Sand bed	Khata-556, Plot 1347, Area-A 3.40, Mouza-Pundal	86 deg 46' 47.5" E to 86 deg 46' 52.3" E	21 deg 34' 35.6" N to 21 deg 34' 41.6" N	122 m	220 m	Road 1.0 Km. & Railway 16.8 Km	520 mtr	150 mtr	School 1.0 Km. & Temple 0.45 Km.	Kuldiha Wild life Sanctuary 12.9 km	No	10000	Replenishment study not mande for the year 2021-22	Under Progress to be submitted in December 2022	can be evaluated after replenishment study	5000	10000	1195000	23900000			
Nilgiri	3	Suno	Dumagan dira Sand bed	Khata-157, Plot-385, Mz-Dumagan dira & Khata-155, plot-36, Mz-Laichhanpur Area-A 12.35,	86 deg 48' 56.7" E to 86 deg 49' 10.9" E	21 deg 34' 21.7" N to 21 deg 34' 27.4" N	142 m	235 m	Road 0.23 Km. & Railway 13.0 Km	1.6 km	150 mtr	School 0.3 Km. & Temple 0.3 Km.	Kuldiha Wild life Sanctuary 15.10 km	No	20000	Replenishment study not mande for the year 2021-22	Under Progress to be submitted in December 2022	can be evaluated after replenishment study	5000	20000	850000	25500000			
Nilgiri	4	Suno	Pratappur Sand bed	Khata-814, Plot 388, Area-A 12.25, Mouza-Ajodhya	86 deg 44' 53.4" E to 86 deg 45' 12.9" E	21 deg 34' 19.9" N to 21 deg 35' 27.8" N	305 m	750 m	Road 1.3 Km. & Railway 19.46 Km	720 m	350 mtr	School 0.7 Km. & Temple 0.5 Km.	Kuldiha Wild life Sanctuary 11.03 km	No	15600	Replenishment study not mande for the year 2021-22	Under Progress to be submitted in December 2022	can be evaluated after replenishment study	Nil	15600	Nil	2714400			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Nilgiri	5	Suno	Bainchanaranpur-1 Sand bed	Khata-266 Plot-383,384 Area-A 12.35, Mouzarapur Bainchanaranpur	86 deg 42' 51.9" E to 86 deg 43' 01.5" E 21 deg 34' 57.1" N to 21 deg 35' 11.5" N	234 m	1.2 km	Road 2.0 Km. & Railway 23.3 Km	609 m	150 mtr	School 1.2 Km. & Temple 0.65 Km.	Kuldiha Wild life Sanctuary 11.15 km	No	18000	Replenishment study not mandated for the year 2021-22	Under Progress to be submitted in December 2022	can be evaluated after replenishment study	18000	18000	18000		9864000	11430000	
Nilgiri	6	Suno	Balipal Sand	Khata-156 Plot-7, 495 Area-A 12.30, Mouzarapur Balipal	86 deg 43' 48.0" E to 86 deg 44' 34.2" E 21 deg 34' 28.3" N to 21 deg 34' 38.2" N	230 m	200 m	Road 0.2 Km. & Railway 21.0 Km	580 m	200 m	School 1.2 Km. & Temple 0.2 Km.	Kuldiha Wild life Sanctuary 10.6 km	No	18000	Replenishment study not mandated for the year 2021-22	Under Progress to be submitted in December 2022	can be evaluated after replenishment study	9000	18000			1638000	1507500	
Nilgiri	7	Suno	Ajodhya Sand bed	Khata-814, Plot-1412, Area-A 12.25, Mouzarapur Ajodhya	86 deg 32.36" E to 86 deg 45' 39.90" E 21 deg 34' 05.20" N to 21 deg 34' 20.22" N	300 m	250 m	Road 1.7 Km. & Railway 18.3 Km	700 m	100 m	School 0.5 Km. & Temple 0.3 Km.	Kuldiha Wild life Sanctuary 11 km	No	33581	Replenishment study not mandated for the year 2021-22	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil		Nil	317000	
Nilgiri	8	Suno	Bainchanaranpur-3 Sand bed	Khata-266 Plot-516 Area-A 08.70, Mouzarapur Bainchanaranpur	86 deg 42' 20.2" E to 86 deg 42' 35.5" E 21 deg 35' 10.5" N to 21 deg 35' 14.1" N	180 m	735 m	Road 2.0 Km. & Railway 24.0 Km	540 m	100 m	School 1.5 Km. & Temple 0.3 Km.	Kuldiha Wild life Sanctuary 11.30 km	No	12676	Replenishment study not mandated for the year 2021-22	To be submitted after replenishment study	can be evaluated after replenishment study	Nil	Nil	Nil		Nil	Nil	
																			37000	81600	0	13547000	20908900	0

Details of Sand/ M-sand Sources

a) Rivers:

River Name/M-sand Plant	Total Storch of River (in K.M)	Type of River (Perennial/Non-perennial)
Budhabalanga	300 K.M	Perennial
Subarnarekha	1075K.M	Perennial
Jalaka	330 K.M	Perennial
Sona	255 K.M	Perennial
Kansabansa	721 K.M	Perennial

b) De-siltation Location (lakes/Ponds/Dams etc.)

name of Reservoir/ Dams	Maitain/ Controlled by State Govt./PSU etc.	Location	District	Tahasil	Village	Size (Ha.)
Not applicable for Balasore District						

c) Patta / Khatedari Land:

Owner	Sy. No.	Area (Ha.)	District	Tahasil	Village	Agricultural Land (Yes/No.)
Not applicable for Balasore District						

d) M-sand Plants:

Plant name	Owner	District	Tahasil	Village	Geo-location	Quantity Tonnes/Annum
Not applicable for Balasore District						

Annexure-II

List of Potential Mining Lease (existing & Proposed) Rivers

Tahasil	Sl No	River detail	Lease detail	Area (in Ha)	Distance (in K.M) from PA/BR/WC	Distance from forest area (in K.M)	Mining lease within 500 metres (if yes cluster area	Total excavation in Tonnes/ Annum considering digging depth max as 3 metres	Mineral to be mined (sand/Bajri/R BM etc.	Existing/ proposed
1	2	3	4	5	6	7	8	9	10	11
Remuna Tahasil										
Remuna	1	Suno	Purukhi	4.97	PA, WC-14.4K.M BR-2.2KM	Kuldiha Wild life Sanctuary 14.4 Km	No	38,000	1,60,000	Existing
Remuna	2	Suno	Boitabank	4.93	PA, WC-14.4K.M BR-0.5KM	Kuldiha Wild life Sanctuary 14.4 Km	No	28,000	1,18,000	Existing
Remuna	3	Suno	Hatigand	5	PA, WC-16.22K.M BR-0.5KM	Kuldiha Wild life Sanctuary 16.22 Km	No	28,000	1,12,000	Existing
Remuna	4	Budhabalanga	Makanda	4.94	PA, WC-21.9K.M BR-1.1KM	Kuldiha Wild life Sanctuary 21.9 Km	No	20,500	86,500	Existing
Remuna	5	Budhabalanga	Ambulakuda	4.98	PA, WC-22.5K.M BR-2.2KM	Kuldiha Wild life Sanctuary 22.5 Km	No	36,000	1,50,000	Existing
Remuna	6	Budhabalanga	Sahupada & Dumuda	5	PA, WC-21.6K.M BR-1.8KM	Kuldiha Wild life Sanctuary 21.6 Km	No	40,000	2,00,000	Existing
Remuna	7	Suno	Udambar	3.32	PA, WC-19.24K.M BR-2.0KM	Kuldiha Wild life Sanctuary 19.24 Kmr	No	27,000	1,13,000	Existing
Remuna	8	Budhabalanga	Kathasangada-I	3.95	PA, WC-15K.M BR-1.4KM	Kuldiha Wild life Sanctuary 15 Kmr	No	24,000	1,00,000	Existing

1	2	3	4	5	6	7	8	9	10	11
Remuna	9	Budhabalanga	Kathasangada-II	1.05	PA, WC-15K.M 1.4KM	Kuldaha Wild life Sanctuary 15 Km.	No	7500	31,500	Existing
Remuna	10	Budhabalanga	Gambharia Rudragopalpur samil Naharpatana	34.8	PA, WC-20.40K.M BR-0.6KM	Kuldaha Wild life Sanctuary 20.40 Km	No	6538	32,690	Existing
Jaleswar Tahasil										
Jaleswar	1	Subarnarekha	Chalanti Sand Source	5.66	PA, WC-58 & 55.8K.M BR-1.0KM	Similipal 58 Km, Kuldaha 55.8 Km	No	15,000	75,000	Existing
Jaleswar	2	Subarnarekha	Sikharpur Sand source	4.85	PA, WC-64 & 62K.M BR-5.1KM	Similipal 64 Km, Kuldaha 62 Km	No	35,000	1,49,000	Existing
Jaleswar	3	Subarnarekha	River Block Sand Source (Ka)	5.66	PA, WC-61 & 64K.M BR-7.5KM	Similipal 61 Km, Kuldaha 64 Km	No	20,000	1,00,000	Existing
Jaleswar	4	Subarnarekha	River Block Sand Source(Kha)	5.26	PA, WC-61 & 64K.M BR-7.5KM	Similipal 61 Km, Kuldaha 64 Km	No	20,000	1,00,000	Existing
Jaleswar	5	Subarnarekha	Balikbad Sand Source	6.01	PA, WC-67 & 60K.M BR-8.3KM	Similipal 67 Km, Kuldaha 60 Km	No	18150	69,030	Existing
Jaleswar	6	Subarnarekha	Praharajpur Sand Source (Ka)	5.26	PA, WC-64 & 70K.M BR-5.2KM	Similipal 64 Km, Kuldaha 70 Km	No	4250	18,667	Existing
Jaleswar	7	Subarnarekha	Gobarghata Sand Source nearest to Dakhinapraharajpur	7.08	PA, WC-63 & 66K.M BR-3.3KM	Similipal 63 Km, Kuldaha 66 Km	No	20,000	1,00,000	Existing
Jaleswar	8	Subarnarekha	Makrampur sand source	6.07	PA, WC-64 & 68K.M BR-5KM	Similipal 64 Km, Kuldaha 68 Km	No	10,200	36,930	Existing
Jaleswar	9	Subarnarekha	Sekh Sarai Sand Source(Kha)	6.07	PA, WC-64.75 & 57K.M BR-0.5KM	Similipal 64.75 Km, Kuldaha 57 Km	No	48,800	2,03,250	Existing
Jaleswar	10	Subarnarekha	Sekh Sarai Sand Source(Ka)	5.66	PA, WC-64.75 & 57K.M BR-1KM	Similipal 64.75 Km, Kuldaha 57 Km	No	37,874	1,89,370	Existing

1	2	3	4	5	6	7	8	9	10	11
Jaleswar	11	Subarnarekha	Mankidia Sand Source(Ka)	8.09	PA, WC-65 & 77K.M BR-20.5KM	Similipal 65 Km, Kuldaha 77 Km	No	60,000	3,00,000	Existing
Jaleswar	12	Subarnarekha	Bilaspur Sand Source	32.45	PA, WC-68 & 78K.M BR-22.5KM	Similipal 86 Km, Kuldaha 78 Km	No	Not assessed	Not assessed	Existing
Jaleswar	13	Subarnarekha	Praharajpur(Kha) Sand Source	6.07	PA, WC-77 & 70K.M BR-15KM	Similipal 77 Km, Kuldaha 70 Km	No	Not assessed	Not assessed	Existing
Jaleswar	14	Subarnarekha	Mankidia Sand Source(Kha)	16.18	PA, WC-65 & 77K.M BR-21KM	Similipal 65 Km, Kuldaha 77 Km	No	Not assessed	Not assessed	Existing
Jaleswar	15	Subarnarekha	Mankidia Sand Source(Ga)	14.16	PA, WC-65 & 77K.M BR-21KM	Similipal 65 Km, Kuldaha 77 Km	No	Not assessed	Not assessed	Existing
Jaleswar	16	Subarnarekha	Rajnagar Sand Source	5.48	PA, WC-60 & 62K.M BR-6.5KM	Similipal 60 Km, Kuldaha 62 Km	No	40,002	2,00,010	Existing
Jaleswar	17	Subarnarekha	Gobardhanpur Sand Source	4.85	PA, WC-67.80 & 56.42K.M BR-7.69KM	Similipal 67.80 Km, Kuldaha 56.42 Km	No	81,500	3,41,500	Existing
Jaleswar	18	Subarnarekha	Chandibasti Sand Source	4.04	PA, WC-67.80 & 56.42K.M BR-7.0KM	Similipal 67.80 Km, Kuldaha 56.42 Km	No	66,000	2,78,000	Existing
Jaleswar	19	Subarnarekha	Baliapal Sand Source	4.85	PA, WC-57K.M BR- 9.5KM	Kuldaha Wild life Sanctuary 57 Km	No	36,000	1,52,000	Existing
Basta Tahasil										
Basta	1	Subarnarekha	Benapura-II	4.99	PA, WC-58 & 57.2K.M BR-0.55KM	Similipal 58.00 Km, Kuldaha 57.2 Km	No	20,000	1,00,000	Existing
Basta	2	Subarnarekha	Dhitpura	4.99	PA, WC-58 & 56K.M BR-2.48KM	Similipal 58.00 Km, Kuldaha 56.00 Km	No	30,000	1,50,000	Existing

1	2	3	4	5	6	7	8	9	10	11
Basta	3	Subarnarekha	Kadarayan	4.99	PA, WC-58 & 60K.M BR-5KM	Similipal 58.00 Km, Kuidiha 60.00 Km	No	30,000	1,50,000	Existing
Basta	4	Subarnarekha	Devog	4.99	PA, WC-58 & 57.50K.M BR-5.6KM	Similipal 58.00 Km, Kuidiha 57.50 Km	No	40,002	2,10,000	Existing
Basta	5	Subarnarekha	Ambakuruchi	2.99	PA, WC-58 & 56.30K.M BR-5.5KM	Similipal 58.00 Km, Kuidiha 56.30 Km	No	20,000	1,00,000	Existing
Basta	6	Subarnarekha	Benapura-I	5.188	PA, WC-58 & 57.20K.M BR-0.7KM	Similipal 58.00 Km, Kuidiha 57.20 Km	No	1500	7500	Existing
Basta	7	Jalaka	Mathani Punsita	0.29	PA, WC-58 & 40.7K.M BR-0.55KM	Similipal 58.00 Km, Kuidiha 40.70 Km	No	4630	23,150	Existing
Baliapal Tahasil										
Baliapal	1	Subarnarekha	Badhapal	3.38	PA, WC-62.80K.M BR-1.1KM	Kuidiha Wild life Sanctuary 62.80 Km	No	59,808	2,99,040	Existing
Baliapal	2	Subarnarekha	Palbegunia	5	PA, WC-58K.M BR- 5KM	Kuidiha Wild life Sanctuary 58 Km	No	65,658	3,28,290	Existing
Balasure Tahasil										
Balasure	1	Budhabalanga	Kasaba Dahapada	41.01	PA, WC-21K.M BR- 0.7KM	Kuidiha Wild life Sanctuary 21 K.M	No	37,400	1,77,112	Existing
Nilgiri Tahasil										
Nilgiri	1	Suno	Punda-1 Sand bed	5	PA, WC-12.61K.M BR-0.65KM	Kuidiha Wild life Sanctuary 12.61 km	No	25,000	1,25,000	Existing

1	2	3	4	5	6	7	8	9	10	11
Nilgiri	2	Suno	Pundal-2 Sand bed	1.38	PA, WC-12.9K.M BR-1KM	Kuldiha Wild life Sanctuary 12.9 km	No	10,000	50,000	Existing
Nilgiri	3	Suno	Dumagandira Sand bed	5	PA, WC-15.10K.M BR-0.23KM	Kuldiha Wild life Sanctuary 15.10km	No	20,000	1,00,000	Existing
Nilgiri	4	Suno	Pratappur Sand bed	4.95	PA, WC-11.03K.M BR-1.3KM	Kuldiha Wild life Sanctuary 11.03 km	No	15,600	78,000	Existing
Nilgiri	5	Suno	Bainchanaranpur-1 Sand bed	5	PA, WC-11.15K.M BR-2KM	Kuldiha Wild life Sanctuary 11.15 km	No	18,000	90,000	Existing
Nilgiri	6	Suno	Balipal Sand	4.98	PA, WC-10.6K.M BR-0.2KM	Kuldiha Wild life Sanctuary 10.6 km	No	18,000	90,000	Existing
Nilgiri	7	Suno	Ajodhya Sand bed	4.96	PA, WC-11K.M BR- 1.7KM	Kuldiha Wild life Sanctuary 11 km	No	33,581	1,41,041	Existing
Nilgiri	8	Suno	Bainchanaranpur-3 Sand bed	3.52	PA, WC-11.30K.M BR-2KM	Kuldiha Wild life Sanctuary 11.30 km	No	12,676	63,380	Existing

Patta Lands/ Khatedairi Land (Existing Proposed)

Owner	Sy No.	Area	District	Tahasil	Village	Total Reserve (MT)	Total Mineral to be mined(MT)
Not applicable for Balasore District							

De-Siltation Location (lakes/ Ponds/dams etc. (Existing & Proposed)

1	2	3	4	5	6	7	8	9	10	11
Name of reservoir /Dams		Maintain/ Collected by State Government/ PSU		Location	District	Tahasil	Village	Size (Ha)	Quantity (MT / year)	
Not applicable for Balasore District										

d) M-sand Plants:							
Plant name	Owner	District	Tahasil	Village	Geo-location	Quantity Tonnes/Annually	Existing /Proposed
Not applicable for Balasore District							

Cluster & Contiguous Cluster details

Cluster:

River Name	Cluster No.	Lease No.	Location (River Bed/Patta Land)	Village	Area (in Ha.)	Total excavation (Ton)	Total Mineral excavation
No sand mining quarry in cluster situation in this district							

Contiguous Cluster Details

River Name	Contiguous Cluster No.	Cluster No.	Number of leases in the cluster	Location (River Bed/Patta Land)	Distance between clusters	Village	Area of cluster (in Ha.)	Total excavation (Ton)
No contiguous Cluster Situation available in respect of Balsore District								

Transportation Routes for individual leases and leases in Cluster.

Name of the Tahasil	Name of the sand source	Lease No.	Transportation Route number	Whether runs on Govt. or Private Land	Details of village/Forest area/Agricultural land through which the approach road runs if any	Number of tippers / day of lease	Number of tippers / day of all the lease on route	Length of Route in K.M	Type of Road (Black Topped/Unpaved)	Recommendation for road (Black Topped/Unpaved)	The road will be constructed by Government/Lease Owner	Route map and location
1	2	3	4	5	6	7	8	9	10	11	12	13
Basta Tahasil												
Basta	Benapura-I	18/15-16	Village Road	Govt.	Benapura	2	27	1 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Benapura-II	19/16-17	Village Road	Govt.	Benapura	14	40	1 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Deog	15/19-20	Village Road	Govt.	Devog	63	35	1 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Ambakudachi	13/19-20	Village Road	Govt.	Ambakudachi	32	55	1.5 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Dhitpura	14/19-20	Village Road	Govt.	Dhitpura	47	29	1.5 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Kadarayan	16/19-20	Village Road	Govt.	Kadarayan	47	39	0.5 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Mathani & Punsita	12/20-21	Village Road	Govt.	Mathani & Punsita	7	44	0.5 K.M	Unpaved	Unpaved	Lease Owner	
Baliapal Tahasil												
Baliapal	Badhapal Sand Bed	1/2021-22	Village Road	Govt. & Pvt.	Badhapal	28 tipper	28 tipper	1.5 K.Ms	Unpaved	Unpaved	Lease Owner	
Baliapal	Palbegunia Sand Bed	2/2021-22	Village Road	Govt. Land	Palbegunia (Nadi Bandha)	30 Tipper	30 Tipper	0.75 K.Ms	Unpaved	Unpaved	Lease Owner	
Balasure Tahasil												

Balasure	Kasaba Dahapada sand source	1/2015-16	Village Road	Govt.	Kasaba	20	20	1 K.M.	Unpaved	Unpaved	Lease Owner
Remuna Tahasil											
Remuna	Purukhi	1/2021-22	Village Road	Govt Land	Purukhi	10	10	1 K.M.	Unpaved	Unpaved	Lease Owner
Remuna	Boitabanka	5/2021-22	Village Road	do	Ghungi	10	10	1.2K.M.	Unpaved	Unpaved	Lease Owner
Remuna	Kathasangada-I	6/2021-22	Village Road	do	Kathasangada	20	20	1 K.M.	Unpaved	unpaved	Lease owner
Remuna	Kathasangada-II	7/2021-22	Village Road	do	village road	20	20	2 K.M.	Unpaved	Unpaved	Lease owner
Remuna	Ambulakuda	4/2021-22	Village Road	do	do	20	20	1.5.k.m.	Unpaved	Unpaved	Lease owner
Remuna	Sahpada Dumuda	1/2020-21	Village Road	do	do	30	30	1.K.M.	Unpaved	Unpaved	Lease owner
Remuna	Makanda sand source	3/2020-21	Village Road	do	do	20	20	10.K.M.	Unpaved	Unpaved	Lease owner
Remuna	Udambar sand source	2/2020-21	Village Road	do	do	20	20	6.K.M.	Unpaved	Unpaved	Lease owner
Remuna	Hatigand Mukundapur Patripal	8/2020-21	Village Road	do	do	30	30	5.K.M.	Unpaved	Unpaved	Lease owner
Remuna	GambhariaRudragopalpur samil Naharapatna	9/2020-21	Village Road	do	do	30	30	5.K.M.	Unpaved	Unpaved	Lease owner
Jaleswar Tahasil											
Jaleswar	Chalanti Sand Source	29/2022-23	Village Road	Govt. land	Chalanti	7	7	1KM	Unpaved	Unpaved	Lease owner
Jaleswar	Sikharpur Sand source	22/2022-23	Village Road	Govt. land	Sikharpur	16	16	600M	Unpaved	Unpaved	Lease owner

Jaleswar	River Block Sand Source (Ka)	20/2022-23	Village Road	Govt. land	River Block	10	10	10	300m	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	River Block Sand Source(Kha)	21/2022-23	Village Road	Govt. land	River Block	10	10	10	300m	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Balikbad Sand Source	31/2022-23	Village Road	Govt. land	Balikbad	4	4	4	500m	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Praharajpur Sand Source (Ka)	15/2022-23	Village Road	Govt. land	Praharajpur	2	2	2	500M	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Gobarghata Sand Source nearest to Dakhinapraharapur	19/2022-23	Village Road	Govt. land	Gobarghata	10	10	10	1KM	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Makrampur sand source	18/2022-23	Village Road	Govt. land	Makrampur	4	4	4	1km	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Sekh Sarai Sand Source(Kha)	28/2022-23	Village Road	Govt. land	Sekhsarai	21	21	21	1km	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Sekh Sarai Sand Source(Ka)	27/2022-23	Village Road	Govt. land	Sekhsarai	20	20	20	1KM	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Mankidia Sand Source(Ka)	12/2022-23	Village Road	Govt. land	Mankidia	27	27	27	500M	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Bilaspur Sand Source	11/2022-23	Village Road	Govt. land	Bilaspur	NA	NA	NA	600M	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Praharajpur(Kha) Sand Source	16/2022-23	Village Road	Govt. land	Praharajpur	NA	NA	NA	500M	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Mankidia Sand Source(Kha)	13/2022-23	Village Road	Govt. land	Mankidia	NA	NA	NA	500M	Unpaved	Unpaved	Unpaved	Lease owner
Jaleswar	Mankidia Sand Source(Ga)	14/2022-23	Village Road	Govt. land	Mankidia	NA	NA	NA	500M	Unpaved	Unpaved	Unpaved	Lease owner

Jaleswar	Rajnagar Sand Source	32/2022-23	Village Road	Govt. land	Rajnagar	22	22	500M	Unpaved	Unpaved	Lease owner
Jaleswar	Gobardhanpur Sand Source	34/2022-23	Village Road	Govt. land	Gobardhanpur	38	38	0.5KM	Unpaved	Unpaved	Lease owner
Jaleswar	Chormara Chandibasti Sand Source	35/2022-23	Village Road	Govt. land	Chormara	30	30	0.5KM	Unpaved	Unpaved	Lease owner
Jaleswar	Baliapal Sand Source	36/2022-23	Village Road	Govt. land	Baliapal			200m	Unpaved	Unpaved	Lease owner
Nilgiri Tahasil											
Nilgiri	Pundal-1	01/2020-21	Mitrapur-Udala	Govt.	Govt. road	20	20	2KM	Unpaved	Unpaved	Lease owner
Nilgiri	Pundal-2	02/2020-21	Mitrapur-Udala	Govt.	Govt. road	7	7	2KM	Unpaved	Unpaved	Lease owner
Nilgiri	Dumagandira-Laichhanpur	03/2020-21	Mitrapur-Udala	Govt.	Govt. road	18	18	1.2 KM	Unpaved	Unpaved	Lease owner
Nilgiri	Bainchanaran pur-1	04/2020-21	Mitrapur-Udala	Govt.	Govt. road	8	8	500mt	Unpaved	Unpaved	Lease owner
Nilgiri	Baliapal	05/2020-21	Mitrapur-Udala	Govt.	Govt. road	8	8	1KM	Unpaved	Unpaved	Lease owner
Nilgiri	Pratappur	06/2020-21	Mitrapur-Udala	Govt.	Govt. road	16	16	1KM	Unpaved	Unpaved	Lease owner
Nilgiri	Bainchanaran pur-3		Mitrapur-Udala	Govt.	Govt. road	7	7	500mt	Unpaved	Unpaved	Lease owner
Nilgiri	Ajodhya		Mitrapur-Udala	Govt.	Govt. road	18	18	500mt	Unpaved	Unpaved	Lease owner

Cluster No.	Transportation Route number	Number of tippers / day of cluster	Number of tippers / day of all the clusters on route	Length of Route in K.M	Type of Road (Black Topped/unpaved)	Recommendation for road (Black Topped/unpaved)	The road will be constructed by Government /Lease Owner	Route map and location
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No cluster approach of sand sources in Balasore District.

Final List of Potential Mining Lease (Existing & Proposed)

Tahasil	Sl No	River detail	Lease detail	Area (in Ha)	Distance (in K.M) from PA/BR/WC	Distance from forest area (in K.M)	Mining lease within 500 metres (if yes cluster area)	Total excavation in Tonnes/ Annum considering digging depth max as 3 metres	Mineral to be mined (sand/Bajir i/RBM etc.	Existing/ proposed
1	2	3	4	5	6	7	8	9	10	11
Remuna	1	Suno	Purukhi	4.97	PA, WC-14.4K.M BR-2.2KM	Kuldiha Wild life Sanctuary 14.4 Km	No	38,000	1,60,000	Existing
Remuna	2	Suno	Boitabank	4.93	PA, WC-14.4K.M BR-0.5KM	Kuldiha Wild life Sanctuary 14.4 Km	No	28,000	1,18,000	Existing
Remuna	3	Suno	Hatigand	5	PA, WC-16.22K.M BR-0.5KM	Kuldiha Wild life Sanctuary 16.22 Km	No	28,000	1,12,000	Existing
Remuna	4	Budhabalanga	Makanda	4.94	PA, WC-21.9K.M BR-1.1KM	Kuldiha Wild life Sanctuary 21.9 Km	No	20,500	86,500	Existing
Remuna	5	Budhabalanga	Ambulakuda	4.98	PA, WC-22.5K.M BR-2.2KM	Kuldiha Wild life Sanctuary 22.5 Km	No	36,000	1,50,000	Existing
Remuna	6	Budhabalanga	Sahupada & Dumuda	5	PA, WC-21.6K.M BR-1.8KM	Kuldiha Wild life Sanctuary 21.6 Km	No	40,000	2,00,000	Existing
Remuna	7	Suno	Udambar	3.32	PA, WC-19.24K.M BR-2.0KM	Kuldiha Wild life Sanctuary 19.24 Kmr	No	27,000	1,13,000	Existing
Remuna	8	Budhabalanga	Kathasangada-I	3.95	PA, WC-15K.M BR-1.4KM	Kuldiha Wild life Sanctuary 15 Kmr	No	24,000	1,00,000	Existing
Remuna	9	Budhabalanga	Kathasangada-II	1.05	PA, WC-15K.M BR-1.4KM	Kuldiha Wild life Sanctuary 15 Kmr	No	7500	31,500	Existing
Remuna	10	Budhabalanga	Gambharia Rudragopalpur samil Naharpatana	34.8	PA, WC-20.40K.M BR-10KM	Kuldiha Wild life Sanctuary 20.40 Kmr	No	6538	32,690	Existing
Jaleswar	1	Subarnarekha	Chalanti Sand Source	5.66	PA, WC-58 & 55.8K.M BR-1.0KM	Similipal 58 Km, Kuldiha 55.8. Km	No	15,000	75,000	Existing
Jaleswar	2	Subarnarekha	Sikharpur Sand	4.85	PA, WC-64 & 62K.M	Similipal 64 Km,	No	35,000	1,49,000	Existing
Jaleswar	3	Subarnarekha	River Block Sand Source (Ka)	5.66	PA, WC-61 & 64K.M BR-7.5KM	Similipal 61 Km, Kuldiha 64 Km	No	20,000	1,00,000	Existing

1	2	3	4	5	6	7	8	9	10	11
Jaleswar	4	Subarnarekha	River Block Sand Source(Kha)	5.26	PA, WC-61 & 64K.M BR-7.5KM	Similipal 61 Km, Kuldiha 64 Km	No	20,000	1,00,000	Existing
Jaleswar	5	Subarnarekha	Balikbad Sand Source	6.01	PA, WC-67 & 60K.M BR-8.3KM	Similipal 67 Km, Kuldiha 60 Km	No	18150	69,030	Existing
Jaleswar	6	Subarnarekha	Praharajpur Sand Source (Ka)	5.26	PA, WC-64 & 70K.M BR-5.2KM	Similipal 64 Km, Kuldiha 70 Km	No	4250	18,667	Existing
Jaleswar	7	Subarnarekha	Gobarghata Sand Source nearest to Dakhinapraharajpur	7.08	PA, WC-63 & 66K.M BR-3.3KM	Similipal 63 Km, Kuldiha 66 Km	No	20,000	1,00,000	Existing
Jaleswar	8	Subarnarekha	Makrampur sand source	6.07	PA, WC-64 & 68K.M BR-5KM	Similipal 64 Km, Kuldiha 68 Km	No	10,200	36,930	Existing
Jaleswar	9	Subarnarekha	Sekh Sarai Sand Source(Kha)	6.07	PA, WC-64.75 & 57K.M BR-0.5KM	Similipal 64.75 Km, Kuldiha 57 Km	No	48,800	2,03,250	Existing
Jaleswar	10	Subarnarekha	Sekh Sarai Sand Source(Ka)	5.66	PA, WC-64.75 & 57K.M BR-1KM	Similipal 64.75 Km, Kuldiha 57 Km	No	37,874	1,89,370	Existing
Jaleswar	11	Subarnarekha	Mankidia Sand Source(Ka)	8.09	PA, WC-65 & 77K.M BR-20.5KM	Similipal 65 Km, Kuldiha 77 Km	No	60,000	3,00,000	Existing
Jaleswar	12	Subarnarekha	Bilaspur Sand Source	32.45	PA, WC-68 & 78K.M BR-22.5KM	Similipal 86 Km, Kuldiha 78 Km	No	Not assessed		Existing
Jaleswar	13	Subarnarekha	Praharajpur(Kha) Sand Source	6.07	PA, WC-77 & 70K.M BR-15KM	Similipal 77 Km, Kuldiha 70 Km	No	Not assessed		Existing
Jaleswar	14	Subarnarekha	Mankidia Sand Source(Kha)	16.18	PA, WC-65 & 77K.M BR-21KM	Similipal 65 Km, Kuldiha 77 Km	No	Not assessed		Existing
Jaleswar	15	Subarnarekha	Mankidia Sand Source(Ga)	14.16	PA, WC-65 & 77K.M BR-21KM	Similipal 65 Km, Kuldiha 77 Km	No	Not assessed		Existing
Jaleswar	16	Subarnarekha	Rajnagar Sand Source	5.48	PA, WC-60 & 62K.M BR-6.5KM	Similipal 60 Km, Kuldiha 62 Km	No	40,002	2,00,010	Existing
Jaleswar	17	Subarnarekha	Gobardhanpur Sand Source	4.85	PA, WC-67.80 & 56.42K.M BR-7.69KM	Similipal 67.80 Km, Kuldiha 56.42 Km	No	81,500	3,41,500	Existing
Jaleswar	18	Subarnarekha	Chandibasti Sand Source	4.04	PA, WC-67.80 & 56.42K.M BR-7.0KM	Similipal 67.80 Km, Kuldiha 56.42 Km	No	66,000	2,78,000	Existing
Jaleswar	19	Subarnarekha	Baliapal Sand Source	4.85	PA, WC-57K.M BR-9.5KM	Kuldiha Wild life Sanctuary 57 Km	No	36,000	1,52,000	Existing

1	2	3	4	5	6	7	8	9	10	11
Basta	1	Subarnarekha	Benapura-II	4.99	PA, WC-58 & 57.2K.M BR-0.55KM	Similipal 58.00 Km, Kuldiha 57.2 Km	No	20,000	1,00,000	Existing
Basta	2	Subarnarekha	Dhitpura	4.99	PA, WC-58 & 56K.M BR-2.48KM	Similipal 58.00 Km, Kuldiha 56.00 Km	No	30,000	1,50,000	Existing
Basta	3	Subarnarekha	Kadarayan	4.99	PA, WC-58 & 60K.M BR-5KM	Similipal 58.00 Km, Kuldiha 60.00 Km	No	30,000	1,50,000	Existing
Basta	4	Subarnarekha	Devog	4.99	PA, WC-58 & 57.50K.M BR-5.6KM	Similipal 58.00 Km, Kuldiha 57.50 Km	No	40,002	2,10,000	Existing
Basta	5	Subarnarekha	Ambakuruchi	2.99	PA, WC-58 & 56.30K.M BR-5.5KM	Similipal 58.00 Km, Kuldiha 56.30 Km	No	20,000	1,00,000	Existing
Basta	6	Subarnarekha	Benapura-I	5.188	PA, WC-58 & 57.20K.M BR-0.7KM	Similipal 58.00 Km, Kuldiha 57.20 Km	No	1500	7500	Existing
Basta	7	Jalaka	Mathani Punsita	0.29	PA, WC-58 & 40.7K.M BR-0.55KM	Similipal 58.00 Km, Kuldiha 40.70 Km	No	4630	23,150	Existing
Baliapal	1	Subarnarekha	Badhapal	3.38	PA, WC-62.80K.M BR- 1.1KM	Kuldiha Wild life Sanctuary 62.80 Km	No	59,808	2,99,040	Existing
Baliapal	2	Subarnarekha	Palbegunia	5	PA, WC-58K.M BR- 5KM	Kuldiha Wild life Sanctuary 58 Km	No	65,658	3,28,290	Existing
Balasore	1	Budhabalanga	Kasaba Dahapada	41.01	PA, WC-21K.M BR- 0.7KM	Kuldiha Wild life Sanctuary 21 K.M	No	37,400	1,77,112	Existing
Nilgiri	1	Suno	Punda-1 Sand bed	5	PA, WC-12.61K.M BR- 0.65KM	Kuldiha Wild life Sanctuary 12.61 km	No	25,000	1,25,000	Existing
Nilgiri	2	Suno	Punda-2 Sand bed	1.38	PA, WC-12.9K.M BR- 1KM	Kuldiha Wild life Sanctuary 12.9 km	No	10,000	50,000	Existing
Nilgiri	3	Suno	Dumagandira Sand bed	5	PA, WC-15.10K.M BR- 0.23KM	Kuldiha Wild life Sanctuary 15.10km	No	20,000	1,00,000	Existing
Nilgiri	4	Suno	Pratappur Sand bed	4.95	PA, WC-11.03K.M BR- 1.3KM	Kuldiha Wild life Sanctuary 11.03 km	No	15,600	78,000	Existing
Nilgiri	5	Suno	Bainchanaranpur- 1 Sand bed	5	PA, WC-11.15K.M BR- 2KM	Kuldiha Wild life Sanctuary 11.15 km	No	18,000	90,000	Existing
Nilgiri	6	Suno	Balipal Sand	4.98	PA, WC-10.6K.M BR- 0.2KM	Kuldiha Wild life Sanctuary 10.6 km	No	18,000	90,000	Existing
Nilgiri	7	Suno	Ajodhya Sand bed	4.96	PA, WC-11K.M BR- 1.7KM	Kuldiha Wild life Sanctuary 11 km	No	33,581	1,41,041	Existing

1	2	3	4	5	6	7	8	9	10	11
Nilgiri	8	Suno	Bainchanaranpur- 3 Sand bed	3.52	PA, WC-11.30KM BR- 2KM	Kuldiha Wild life Sanctuary 11.30 km	No	12,676	63,380	Existing

Patta Lands/ Khatedari Land (existing & Proposed)

Owner	Sy No.	Area	District	Tahasil	Village	Total Reserve (MT)	Total Mineral to be mined(MT)	Existing/Proposed
No such case in Balasore District								

De-Siltation Location (lakes/ Ponds/dams etc. (Existing & Proposed)

Name of reservoir /Dams	Maintain/Collected by State Government/PSU etc	Location	District	Tahasil	Village	Size (Ha)	Quantity (MT / year)	Existing /Proposed
No such case in Balasore District								

M-sand Plants (Existing & proposed):

Plant name	Owner	District	Tahasil	Village	Geo-location	Quantity Tonnes/Annum	Existing /Proposed
Not such case in Balasore District							

Annexure-VI

Final List of Cluster & Contiguous Cluster							
River Name	Cluster No.	Lease No.	Location (River Beds/ Patta Lands)	Village	Area (in Ha)	Total excavation (Ton)	Total Mineral excavation
No such case available in Balasore District							

Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No.	Number of leases in the cluster	Location (River bed/Patrita Land)	Distance between Clusters	Village	Area of Cluster (in Ha)	Total Mineral excavation (ton)
No such case available in Balasore District								

Annexure-VII

Final Transportation Routes for individual leases and leases in cluster												
Name of the Tahasil	Name of the sand source	Lease No.	Transportation Route number	Whether runs on Govt. or Private Land	Details of village/Forest area/Agricultural land through which the approach road runs if any	Number of tippers / day of lease	Number of tippers / day of all the lease on route	Length of Route in K.M	Type of Road (Black Topped/unpaved)	Recommendation for road (Black Topped/unpaved)	The road will be constructed by Government /Lease Owner	Route map and location
1	2	3	4	5	6	7	8	9	10	11	12	13
Basta	Benapura-I	18/15-16	Village Road	Govt.	Benapura	2	27	1 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Benapura-II	19/16-17	Village Road	Govt.	Benapura	14	40	1 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Deog	15/19-20	Village Road	Govt.	Devog	63	35	1 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Ambakudachi	13/19-20	Village Road	Govt.	Ambakudachi	32	55	1.5 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Dhitpura	14/19-20	Village Road	Govt.	Dhitpura	47	29	1.5 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Kadarayan	16/19-20	Village Road	Govt.	Kadarayan	47	39	0.5 K.M	Unpaved	Unpaved	Lease Owner	
Basta	Mathani & Punsita	12/20-21	Village Road	Govt.	Mathani & Punsita	7	44	0.5 K.M	Unpaved	Unpaved	Lease Owner	
Baliapal	Badhapal Sand Bed		Village Road	Govt. & Pvt.	Badhapal	28 tipper	28 tipper	1.5 K.Ms	Unpaved	Unpaved	Lease Owner	

1	2	3	4	5	6	7	8	9	10	11	12	13
Baliapal	Palbegunia Sand Bed		Village Road	Govt. Land	Palbegunia (Nadi Bandha)	30 Tipper	30 Tipper	0.75 K.Ms	Unpaved	Unpaved	Lease Owner	
Balasure	Kasaba Dahapada sand source	Jan-15	Village Road	Govt.	Kasaba	20	20	1 K.M.	Unpaved	Unpaved	Lease Owner	
Remuna	Purukhi	1/2021-22	Village Road	Govt Land	Purukhi	10	10	1 K.M.	Unpaved	Unpaved	Lease Owner	
Remuna	Boitabanka	5/2021-22	Village Road	do	Ghungi	10	10	1.2K.M.	Unpaved	Unpaved	Lease Owner	
Remuna	Kathasangada-I	6/2021-22	Village Road	do	Kathasangada	20	20	1 K.M.	Unpaved	unpaved	Lease owner	
Remuna	Kathasangada-I	7/2021-22	Village Road	do	village road	20	20	2 K.M.	Unpaved	Unpaved	Lease owner	
Remuna	Ambulakuda	4/2021-22	Village Road	do	do	20	20	1.5.k.m.	Unpaved	Unpaved	Lease owner	
Remuna	Sahupada Dumuda	1/2020-21	Village Road	do	do	30	30	1.K.M.	Unpaved	Unpaved	Lease owner	
Remuna	Makanda sand source	3/2020-21	Village Road	do	do	20	20	10.K.M.	Unpaved	Unpaved	Lease owner	
Remuna	Udambar sand source	2/2020-21	Village Road	do	do	20	20	6.K.M.	Unpaved	Unpaved	Lease owner	
Remuna	Hatigand Mukundapur Patripal	8/2020-21	Village Road	do	do	30	30	5.K.M.	Unpaved	Unpaved	Lease owner	
Remuna	GambhariaRu dragopalpur samil Naharapatna	9/2020-21	Village Road	do	do	30	30	5.K.M.	Unpaved	Unpaved	Lease owner	
Jaleswar	Chalanti Sand Source	29/2022-23	Village Road	Govt. land	Chalanti	7	7	1KM	Unpaved	Unpaved	Lease owner	

1	2	3	4	5	6	7	8	9	10	11	12	13
Jaleswar	Sikharpur Sand source	22/2022-23	Village Road	Govt. land	Sikharpur	16	16	600M	Unpaved	Unpaved	Lease owner	
Jaleswar	River Block Sand Source (Ka)	20/2022-23	Village Road	Govt. land	River Block	10	10	300m	Unpaved	Unpaved	Lease owner	
Jaleswar	River Block Sand Source(Kha)	21/2022-23	Village Road	Govt. land	River Block	10	10	300m	Unpaved	Unpaved	Lease owner	
Jaleswar	Balikbad Sand Source	31/2022-23	Village Road	Govt. land	Balikbad	4	4	500m	Unpaved	Unpaved	Lease owner	
Jaleswar	Praharajpur Sand Source (Ka)	15/2022-23	Village Road	Govt. land	Praharajpur	2	2	500M	Unpaved	Unpaved	Lease owner	
Jaleswar	Gobarghata Sand Source nearest to Dakhinaprahara inpur	19/2022-23	Village Road	Govt. land	Gobarghata	10	10	1KM	Unpaved	Unpaved	Lease owner	
Jaleswar	Makrampur sand source	18/2022-23	Village Road	Govt. land	Makrampur	4	4	1km	Unpaved	Unpaved	Lease owner	
Jaleswar	Sekh Sarai Sand Source(Kha)	28/2022-23	Village Road	Govt. land	Sekhsarai	21	21	1km	Unpaved	Unpaved	Lease owner	
Jaleswar	Sekh Sarai Sand Source(Ka)	27/2022-23	Village Road	Govt. land	Sekhsarai	20	20	1KM	Unpaved	Unpaved	Lease owner	
Jaleswar	Mankidia Sand Source(Ka)	12/2022-23	Village Road	Govt. land	Mankidia	27	27	500M	Unpaved	Unpaved	Lease owner	
Jaleswar	Bilaspur Sand Source	11/2022-23	Village Road	Govt. land	Bilaspur	NA	NA	600M	Unpaved	Unpaved	Lease owner	
Jaleswar	Praharajpur(Kha) Sand Source	16/2022-23	Village Road	Govt. land	Praharajpur	NA	NA	500M	Unpaved	Unpaved	Lease owner	

1	2	3	4	5	6	7	8	9	10	11	12	13
Jaleswar	Mankidia Sand Source(Kha)	13/2022-23	Village Road	Govt. land	Mankidia	NA	NA	500M	Unpaved	Unpaved	Lease owner	
Jaleswar	Mankidia Sand Source(Ga)	14/2022-23	Village Road	Govt. land	Mankidia	NA	NA	500M	Unpaved	Unpaved	Lease owner	
Jaleswar	Rajnar Sand Source	32/2022-23	Village Road	Govt. land	Rajnar	22	22	500M	Unpaved	Unpaved	Lease owner	
Jaleswar	Gobardhanpur Sand Source	34/2022-23	Village Road	Govt. land	Gobardhanpur	38	38	0.5KM	Unpaved	Unpaved	Lease owner	
Jaleswar	Chormara Chandibasti Sand Source	35/2022-23	Village Road	Govt. land	Chormara	30	30	0.5KM	Unpaved	Unpaved	Lease owner	
Jaleswar	Baliapal Sand Source	36/2022-23	Village Road	Govt. land	Baliapal			200m	Unpaved	Unpaved	Lease owner	
Nilgiri	Pundal-1	01/2020-21	Mitrapur-Udala	Govt.	Govt. road	20	20	2KM	Unpaved	Unpaved	Lease owner	
Nilgiri	Pundal-2	02/2020-21	Mitrapur-Udala	Govt.	Govt. road	7	7	2KM	Unpaved	Unpaved	Lease owner	
Nilgiri	Dumagandira-Laichhanpur	03/2020-21	Mitrapur-Udala	Govt.	Govt. road	18	18	1.2 KM	Unpaved	Unpaved	Lease owner	
Nilgiri	Bainchanaran pur-1	04/2020-21	Mitrapur-Udala	Govt.	Govt. road	8	8	500mt	Unpaved	Unpaved	Lease owner	
Nilgiri	Balpal	05/2020-21	Mitrapur-Udala	Govt.	Govt. road	8	8	1KM	Unpaved	Unpaved	Lease owner	
Nilgiri	Pratappur	06/2020-21	Mitrapur-Udala	Govt.	Govt. road	16	16	1KM	Unpaved	Unpaved	Lease owner	
Nilgiri	Bainchanaran pur-3		Mitrapur-Udala	Govt.	Govt. road	7	7	500mt	Unpaved	Unpaved	Lease owner	
Nilgiri	Ajodhya		Mitrapur-Udala	Govt.	Govt. road	18	18	500mt	Unpaved	Unpaved	Lease owner	

1	2	3	4	5	6	7	8	9	10	11	12	13
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Cluster No.	Transportation Route number	Number of tippers / day of cluster	Number of tippers / day of all the clusters on route	Length of Route in K.M	Type of Road (Black Topped/unpaved)	Recommendation for road (Black Topped/unpaved)	The road will be constructed by Government /Lease Owner	Route map and location
No cluster approach of sand sources in this district								