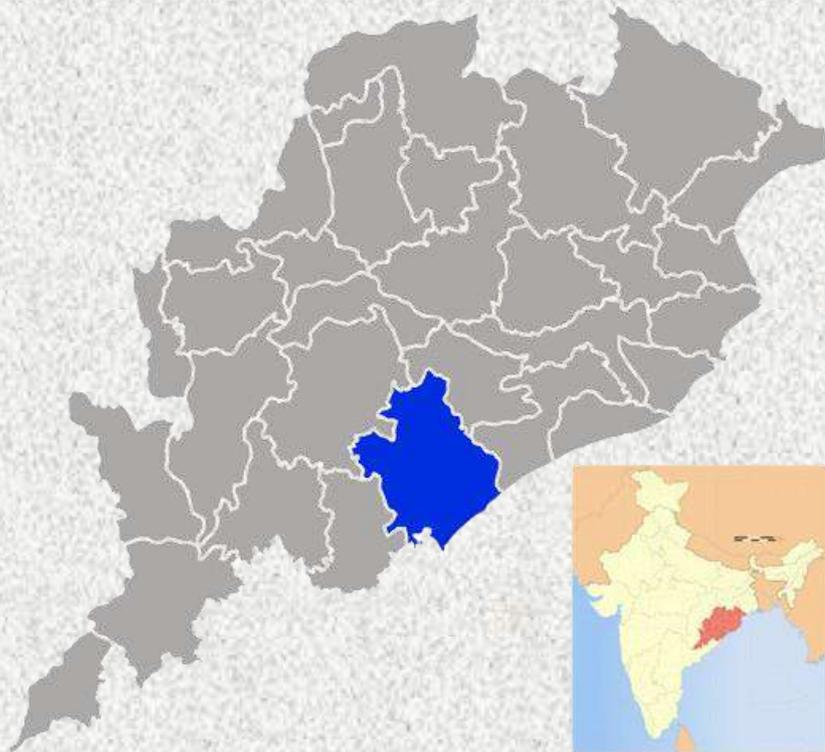


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DISTRICT SURVEY REPORT (DSR) OF GANJAM DISTRICT, ODISHA FOR RIVER SAND MINING

As per Notification No. S.O. 141(E), 15th January, 2016 & S.O. 3611(E), 25th July, 2018, New Delhi, MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE (MoEF & CC)



**COLLECTORATE GANJAM
DECEMBER-2024**

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PREFACE

The Erstwhile Ministry of Environment and Forests(MoEF), (the Government of India, made Environmental Clearance (EC) for mining of minerals mandatory through its Notification of 27th January, 1994 under the provisions of Environment Protection Act, 1986. Keeping in view the experience gained in environmental clearance process over a period of one decade, the Ministry came out with Environmental Impact Notification, SO 1533 (E), dated 14th September 2006. The Ministry of Environment, Forests & Climate Change (MoEF&CC), Government of India had amended the said vide notification S.O. 141(E) Dated 15th January, 2016. Now again Ministry of Environment, Forests & Climate Change (MoEF & CC), Government of India amended the notification S.O. 141(E) Dated 15th January, 2016 vide S.O. 3611(E) Dated 25th July, 2018. It has been made mandatory to obtain environmental clearance for different kinds of development projects as listed in Appendix-X of the Notification. In compliance to the notification issued by the Ministry of Environment and Forest and Climate Change Notification no. S.O.3611 (E) NEW DELHI dated 25-07-2018 the preparation of district survey report of sand mining has been prepared in accordance with Clause II of Appendix X of the notification. Every effort has been made to cover river sand mining locations, future potential areas and overview of sand mining activities in the district with all its relevant features pertaining to geology and mineral wealth. This report will act as a compendium of available mineral resources, geological set up, environmental and ecological set up of the district and based on data of various departments like Revenue, Water Resources, Forest, Geology and Mining in the district as well as statistical data uploaded by various state Government departments for preparation for district survey report. The main purpose of preparation of District Survey Report is to identify the mineral resources and developing the mining activities along with other relevant data of the District.

OBJECTIVES

The main objective of the preparation of District Survey Report is to ensure the following –

- Identification of mineral wealth in the district.
- Identification of areas of Minor Mineral having the potential mineral where mining can be allowed.
- Identification of areas of proximity to infrastructural structures and installations where mining should be prohibited.

01. INTRODUCTION.

Ganjam District came into existence on 1st April 1936. The district is named after the old township and European fort of Ganjam situated on the northern bank of river Rushikulya which was the head quarter of the District during early British administration up to 1815. The name of the town Ganjam or locally pronounced Ganja, has probably been derived from the word "Gunj" of Iranian (Persian) origin which means the granary. There is also another meaning of this word i.e. "The Market". The Ganjam area was a part of ancient Kalinga which was occupied by Ashok in 261 B.C. The period of 1757 was ruled by the French Commander Bussy. In 1759, the French ruler was defeated by English and the District was annexed by them. The office of the District Collector was established in 1794. The District got separated from the Madras Presidency and formed the part of the newly created State of Odisha province with effect from 1.4.1936. Ganjam District is on 19.4 to 20.17 degree North Latitude and 84.7 to 85.12 degree East Longitude. It covers an area of 8070.60 sq km. The district is broadly divided into two divisions, the Coastal plain area in the east and hill and table lands in the west. The eastern ghats run along the western side of the District. The climate of Ganjam is characterized by an equable temperature round the year, particularly in the coastal regions. The District's cold season from December to February is followed by hot season from March to May. The District experiences normal annual rainfall of 1444 mms. Agriculture is a traditional occupation and the way of living of the inhabitants of the Ganjam District. The District is well known for its fertile soil and agricultural productivity. A large variety of crops are grown here like Paddy, Ground nut, Sugar cane, Oil seeds, Ragi, Mung, Biri etc. Because of the agro climatic condition Ganjam is included as the agricultural District. The literacy rate of the ganjam district is above 60 percent. There are many reputed educational institutes in the District like Brahmapur University, Ganjam Law college, Lingaraj Law college, NIST, Khalikote College Brahmapur, R.C.M. Science college Khalikote, Government Science College Chhatrapur, Maharaja Krushna Chandra Gajapati Medical College, Nursing College, and Pharmaceutical Colleges etc. Ganjam District celebrates many festivals round the year. Dola Yatra, Tara Tarini Mela, Thakurani Yatra, Durga Puja, Shiv Ratri, Ratha Yatra, Makar Sankranti, Manabasa Gurubara and Danda Yatra are the famous festivals being celebrated in the District with great enthusiasm. Ganjam District is full of many tourist spots that are visited by a large number of tourists every year like Arjapalli, Athagadapatna, Balkumari, Brahmapur, Bhairabi (Mantridi), Bhetanai, Biranchi Narayan, Budhakhol- Buguda, Chilika (Rambha), Girisola, Gopalpur sea beach, Taratarini etc.

02. OVERVIEW OF MINING ACTIVITY IN THE DISTRICT.

Over the year the mining activities of the district is multiplying keeping in view of population pressure, different development activities and scientific requirement of the society. The mining activities of the district may be broadly divided into 3 categories, viz: i) Atomic Mineral Exploration and processing 2) Extraction and Processing of Specified Minor Mineral (Decorative Stone) and 3) Extraction of minor mineral other than specified minor mineral such as ordinary earth, Sand, Stone & Morrum.

Mineral Resources Overview:

Sand: The rivers and streams in Ganjam, particularly the Rushikulya, Ghodahada, Bahuda , Badanadi , and Rushikulya, are rich sources of sand deposits. Sand extracted from these waterways is primarily used in construction, especially for producing concrete and plaster. It is essential to the building industry, supporting the development of residential, commercial, and infrastructure projects.

Road Metal/Stone: Ganjam is home to vast reserves of building stones, such as granite, limestone, and various other construction materials. The district boasts numerous quarries that supply stones for use in construction, road building, and other civil engineering projects.

Morrum: Morrum is a type of gravel or loose earth commonly used in construction and road construction. It is primarily extracted from riverbeds and alluvial deposits. Morrum is widely utilized for roadbuilding, particularly in rural and semi-urban areas, and is also used in the construction of embankments and as a foundational material for highways.

Ordinary Earth: The clay-rich soil found in parts of Ganjam is highly suitable for the production of bricks. Clay is commonly extracted for the manufacturing of bricks for both industrial and residential construction. The extracted clay is molded into bricks, which are then fired in kilns. These bricks are vital for the construction of buildings, roads, and other infrastructure.

All the these sources extraction of Minor Mineral are being done as per the approved mining Plan. All the mining activities in the district are open cast working and carried out either manually or semi mechanised manner.

03. THE LIST OF MINING LEASES IN THE DISTRICT WITH LOCATION, AREA & PERIOD OF VALIDITY.

Sl.No	Name of River /Stream	Name of the Mineral	Name of the Lessee	Address & Contact No. of lessee	Mining lease Grant Order No. & date	Area of Mining lease (in Hc)	Period of Mining lease (Initial)		Date of commencement of mining operation	Status (Working Non Working/Temp. working for despatch etc.)	Obtained Environmental clearance (Y/N) if Y letter No. with date of grant of E.C	Location of the mining lease Land Schedule and (Latitude & Longitude)
							From	To				
1	2	3	4	5	6	7	8	9	10	11	13	14
BERHAMPUR SUB DIVISION												
Name of the Tahasil:- CHIKITI												
A1	Bahuda	Chadiapada Sand Quarry	Santosh Kumar Behera			5.09				Non-Working	No	At:- CHADIAPADA, Khata No-631, Plot No- 1 & 1079, Kissam-Nadi (84°31'13.00" 19°14'16.80", & 84°31'9.30" 19°14'17.80")
A2	Bahuda	PARASAMBA SAND QUARRY	Barik Pradhan	At/Po- Badakelajhuri, Ps- K. Nuagam, Dist- Ganjam, 761011, Mob No- 7735203204	No- 10712200311, Dtd- 25.02.2022	5	Nil	Nil	Nil	Non-Working	No	At:- Parasama, Khata No-407, Plot No- 1 & 177, Kissam- Nadi (84°34'8.50" 19°12'31.20", 84°34'6.50" 19°12'33.30")
A3	Bahuda	K.NUAGAM SAND QUARRY	Krupasindh u Muduli	Vill-Ramakrushna Nagar 2nd Lane, po- Berhampur, Ps- Baidyanathpur, Mob no-8658355655/ 9439191777	No- 10712201764, Dtd- 24.08.2022	5	2022-23	2026-27	05.09.2022	Working	SIA/OR/MIN/28 6417/2022	At:- KAMPA NUAGAM, Khata No-401, Plot No- 4.531, 2206 Kissam- Nadi (84°33'12.47" 19°13'42.73", 84°33'42.11" 19°12'55.04")
A4	Bahuda	SUNDARADA SAND QUARRY	Santosh Kumar Behera	Vill-Sundarada ps- K.Nuagaon Mob No- 9438027333	No- 10632203842, Dtd- 03.09.2022	5	2022-23	2026-27	08.09.2022	Working	SIA/OR/MIN/28 6934/2022	At:- SUNDRAUDABIRA CHAITANYAPUR SASANA, Khata No-223, Plot No- 1059 Kissam- Nadi(84°30'38.20" 19°14'13.90", 84°30'38.80" 19°14'11.00")
A5	Bahuda	KALABADA SAND QUARRY -I	Pabitra Kumar Swain	At/po-Tirtol, Panchei, Dist- Jagatsinghpur, 754137, Mob no- 9937968266	No- 10712200757, Dtd- 22.04.2022	4.062	2021-22	2025-26	25.05.2022	Working	3256/SEIAA Dt- 07-Oct-2021	At:- KALABADA , Khata No-525, Plot No- 1 & 2395 Kissam- Nadi(84°35'37.00" 19°9'21.80", 84°35'36.00" 19°9'18.80")
A6	Bahuda	KALABADA SAND QUARRY -II	Laxman Pradhan	Dharakote, P.S- jahada, 761107, 9090646999	No- 10712201813, Dtd- 02.08.2022	5	2022-23	2027-28	06.09.2022	Working	5299/SIEAA Dt- 19-Aug-2022	At:- KALABADA , Khata No-525, Plot No- 2395 Kissam- River (84°35'36.10" 19°9'24.50", 84°35'40.30" 19°9'25.10")

A7	Bahuda	CHILADI SAND QUARRY-I	Shyam Sundar Sahu	At-Aliapur , po-Narayanpur,Gopalpur,Dist-Ganjam	No-10712001491, Dtd-11.12.2020	5.03	2020-21	2025-26	23.12.2020	Working	YES-9592/SEIAA Dt-04-Nov-2020	At:-CHILADI , Khata No-462, Plot No- 2369/2958 & 2179, Kissam- Nadi (84°35'32.17" 19°10'27.99", 84°35'30.58" 19°10'6.78")
A8	Bahuda	CHILADI SAND QUARRY-II	Laxman Pradhan	Dharakote, P.S-jahada, 761107, 9090646999	No-1712200839, Dtd-29.04.2022	4.77	2022-23	2026-27	Nil	Working	YES-SIA/OR/MIN/30 3182/2023Dt-08-Nov-2023	At:- CHILADI, Khata No-462, Plot No- 15/2957, Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")
A9	Bahuda	BADA BARANGA SAND QUARRY -II				5.058				Non-Working	Nil	At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam-Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")
A10	Bahuda	BADA BARANGA SAND QUARRY -I				3.58				Non-Working	Nil	At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam-Nadi (84°35'50.64" 19°9'1.08", 84°35'59.28"19°9'28.44")
A11	Bahuda	BHOLASINGI SAND QUARRY				6.437				Non-Working	Nil	At:- BHOLASINGI, Khata No-378, Plot No-1556 , Kissam-Nadi , LAT- 19.191, LONG-84.591
Name of the Tahasil:- DIGAPAHANDI												
B1	Bahuda	TENTUAPADA -A SAND QUARRY	M/S Premex	At : Prem Nivas, Bramha Nagar 3 lane, Berhampur, Po- Berhampur, Ps. Baidyanathpur District- Ganjam, Odisha, Pin- 760001, Cell No - 9437044031	No-10632306026, Dtd-18.12.2023	5.666	2023-24	2027-28	02.08.2022	Working	No-72996/225-MINB1/03-2022 Dt-30-Jun-2022	TENTUAPADA Khata No-324 & 1666, Plot No- 1603,1665 & 1666, Kissam- Nadi (84°32'9.70" 19°14'12.10", 84°32'10.20" 19°14'8.50")
B2	KANTEIJ ODI RIVER	CHAITANYA PRASAD SAND QUARRY	Mihir Prasad Choudhury	At-Dhanaghara Po-Ramachandrapur, P.S.- K.Nuagaon ,761010, Mob no-9658289589	No-10712001093, Dtd-09.10.2020	2.176	2020-21	2025-26	05.05.2023	Working	No-SEIAA-116/03-2020 Dt-15-Sep-2020	CHAITANYA PRASAD Khata No-125, Plot No- 1130, Kissam-Nadi (84°32'21.60" 19°14'46.40", 84°32'22.10" 19°14'43.70")
B3	Bahuda	DHANARASI SAND QUARRY	Laxmi Sethy	At/Po-Adapada, P.S.- Hinjili ,761144, Mob no-9078263111	No-10632300911, Dtd-05.01.2023	5.162	2022-23	2024-25	28.06.2023	Working	No-81084 / 300 - MINB1 / 08-2022 Dt-05-Jan-2023	DHANRASI Khata No-276, Plot No- 1 & 28, Kissam- Nadi (84°31'12.00" 19°14'4.00", 84°31'19.70" 19°14'3.50")
B4	Bahuda	KALINGADOLA SAND QUARRY				6.639				Non-Working	No	KALINGADOLA, Khata No-270, Plot No- 575, Kissam- Nadi (84°32'57.12"19°13'37.56", 84°33'16.20" 19°13'55.20")

B5	Bahuda	JALAMERIPAL LI SAND QUARRY	Laxmi Sethy	At/Po-Adapada, P.S.- Hinjili ,761144, Mob no-9078263111	No- 10632204176, Dtd- 26.09.2022	8.878	2022- 23	2027- 28	26.09.2022	Working	No-63826/258- MINB1/07-2022 Dt-22-Sep-2022	Jalameripalli, Khata No-327, Plot No-1488, Kissam- Nadi (84°29'49.50" 19°22'58.70", 84°30'1.60" 19°22'58.60")
B6	Bahuda	GOUDAGAM SAND QUARRY				6.356				Non- Working	NA	GOUDAGAM, Khata No-844, Plot No-1917,1908 & 1848, (2.327, 2.239 & 1.790 Ha) Kissam- Nadi (84°29'1.20" 19°13'22.90", 84°29'1.20"19°13'23.90")
B7	Bahuda	CHASANIMA KHANDI SAND QUARRY	M/S Premex	At : Prem Nivas, Bramha Nagar 3 lane, Berhampur, Po- Berhampur, Ps. Baidyanathpur District- Ganjam, Odisha, Pin- 760001,	No- 632203422 Dt-02.08.2022	13.06				Working	No-57719/226- MINB1/04-2022	CHASANIMAKHANDI, Khata No-1004, Plot No-1535 & 1427,(7.042 & 6.026) Kissam- Nadi (84°28'33.40"19°21'40.00", 84°28'33.80"19°21'40.10")
B8	Bahuda	Phasiguda Sand Quarry- 1				5.197				Non- Working	NO	PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi LAT- 19.392 LONG-84.507
B9	Bahuda	PHASIGUDA SAND QUARRY				5.197				Non- Working	NO	PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi (84°30'8.26"19°23'25.75", 84°30'14.80"19°23'36.29")
B10	Bahuda	TENTUAPADA -B SAND QUARRY				5.982				Non- Working	NO	TENTUAPADA, Khata No-324, Plot No-2084, Kissam- Nadi (84°32'25.42"19°14'15.63",84°32' 25.74"19°14'11.33")
B11	Bahuda	BAJRAGUMMA A SAND QUARRY				4.544				Non- Working	NO	BAJRAGUMMA, Khata No-245, Plot No-694 & 695,(2.113 & 2.431) Kissam- Nadi (84°28'29.28"19°11'33.00"84°28'4 1.52"19°11'49.56")
Name of the Tahasil:- PATRAPUR												
C1	Bahuda	Nadigam Sand Quarry				5.577				Non- Working	No	NADIGAM, Khata No-520, Plot No-682& 684, Kissam- Nadi (84°34'28.93" 19°11'43.08", 84°34'53.78" 19°11'57.11")
C2	Bahuda	KOLIALA SAND QUARRY	Mirza Abarnul Haque Baig	Plot No- 74, Satya Nagar, Bhubaneswar, Odisha	No-1922 Dt- 10.05.2021	5	2022- 23	2027- 28	09.05.2022	Working	No- EC22B001OR18 9640/SEIAA	KOLIALA, Khata No-530, Plot No-1444, Kissam- Nadi (84°33'48.40" 19°12'53.18", 84°33'47.85" 19°12'51.45")
C3	Bahuda	KHARNIPADA SAND QUARRY	Tarakanath Das	At/Po- Chandrasekhar pur, Bhubaneswar	No-727, Dtd- 12.02.2019	0.405	2020- 21	2025- 26	28.12.2020	Working	No-9751/SEIAA Dt-25-Nov-2020	KHARANIPADA, Khata No-777, Plot No-1098, Kissam- Nadi (84°34'9.92" 19°12'14.34", 84°34'9.03" 19°12'12.70")

NEW SOURCE												
C4	Bahuda	Bhimapura sand Quarry-1				7.183					Not-Working	Bhimapura, Khata No-503, Plot No-1(Area 12.750 Ac) & 18(Area 5.00Ac), Kissam- Nadi LAT- 19.14 LONG- 84.587
C5	Bahuda	Bhimapura sand Quarry-2				6.019					Not-Working	Bhimapura, Khata No-506, Plot No-174(Area 14.875 Ac) Kissam- Nadi LAT- 19.139 LONG- 84.601
C6	Bahuda	Budagada				1.807					Not-Working	Bhimapura, Khata No-253, Plot No-553(Area 2.765 Ac),Plot No-1398(Area 0.588 Ac) &Plot No-1397(Area 1.213 Ac) Kissam- Nadi
Name of the Tahasil:- SANAKHEMUNDI												
D1	GHODA HADA	BHALIAJHOLA SAND SOURCE				5					Non-Working	No BHALLAJHOLA, Khata No-527, Plot No-3588, Kissam- Nadi (84°35'39.84"19°27'6.12", 84°36'5.40"19°27'23.40")
D2	GHODA HADA	LUNINATHI SAND BED	Abhaya Kumar Nahak	At/Po-Sahaspur, Ps-Pattapur, 761012, 9937159406	LETTER NO-5584 Date-28.12.2021	3.44	2021-22	2026-27	15.02.2022	Working	SIA/OR/MIN/25 1756/2022 & DATE-18.01.2022	At:- LUNINATHI,Khata No-170, Plot No- 1539, Kissam- River(84°33'36.87" 19°25'31.34", 84°34'0.17" 19°25'39.19")
D3	GHODA HADA	KHALINGI SAND SOURCE	Bulu Jena	At-Gambhariguda, Po-Konkarada, P.S.-Pattapur, 761144, 9938597969	No-10632200063, Dtd-05.01.2022	5	2021-22	2026-27	05.01.2022	Working	No-SIA/OR/MIN/23 2726/2021 Dt-05-Jan-2022	At:- KHALINGI,Khata No-1186, Plot No- 1917, Kissam- Nadi (84°39'21.40" 19°26'26.63", 84°39'39.30" 19°26'7.04")
D4	GHODA HADA	ERENDRA SAND SOURCE	Bulu Jena	At-Gambhariguda, Po-Konkarada, P.S.-Pattapur, 761144, 9938597969	No-10632100202, dtd-15.01.2021	4.197	2020-21	2025-26	15.01.2021	Non-Working	No-SEIAA-146/05-2020 Dt-17-12-2020	At-ERENDRA,Khata No-860, Plot No- 636, Kissam- Nadi (84°37'52.94" 19°27'10.30", 84°37'52.70" 19°27'8.11")
D5	GHODA HADA	MOULABHANJA SAND SOURCE	Laxmi Sethi	At/Po-Adapada, P.S.- Hinjili ,761144, Mob no-9078263111	No-10632204904, Dtd-18-Nov-2022	3.817	2022-23	2025-26	18.11.2022	Non-Working	No-271249 /373 -MINB2 / 07-2022 Dt-22-Sep-2022	At-MOULABHANJA,Khata No-1505, Plot No- 4156, Kissam- Nadi (Longitude-84°31'20.05" Latitude-19°23'47.60") to (Longitude-84°31'30.16" Latitude-19°23'56.81")
D6	GHODA HADA	SUNDHIPALLI SAND SOURCE				2.573					Non-Working	NO SUNDHIPALLI,Khata No-545(AAA), Plot No- 389, Kissam- Nadi (Longitude-84°33'1.80" Latitude-19°24'43.56") to (Longitude-84°33'12.96" Latitude-19°24'54.36")

D7	GHODA HADA	KHOLADI SAND SOURCE				5				Non-Working	NO	KHOLADI, Khata No-337 (AAA), Plot No- 910, Kissam- Nadi (Longitude-84°33'5.90" Latitude-19°25'11.10") to (Longitude-84°32'0.50"Latitude-19°25'7.20")
D8	GHODA HADA	KARAKHANDI ,GHODAHADA				4.534				Non-Working	NO	KANAKARADA, Khata No-786, Plot No- 4011, Kissam- Nadi (Longitude-84°40'24.24" Latitude-19°26'29.04") to (Longitude-84°40'39.00"Latitude-19°27'4.68")
D9	GHODA HADA	DHARMARAY PUR SAND SOURCE				13.76				Non-Working	NO	DHARMARAYAPUR, Khata No-458, Plot No- 2110, 2112, 1899 & 2092 (1.280, 4.451, 3.095 & 4.939), Kissam- Nadi (Longitude-84°36'3.57" Latitude-19°27'20.79") to (Longitude-84°36'4.70"Latitude-19°27'22.59")
D10	GHODA HADA	AMBAGAM SAND SOURCE				11.28				Non-Working	NO	AMBAGAM, Khata No-217(AAA), Plot No- 1,461 & 199/1152, (3.375, 2.262 & 5.645) Kissam- Nadi (Longitude-84°31'57.00" Latitude-19°25'0.84") to (Longitude-84°32'24.72"Latitude-19°25'12.72")

CHHATRAPUR SUB DIVISION

Name of the Tahasil:- CHHATRAPUR

E1	RUSHIKUL YA	HANSAPUR				5.109				Non-Working	No	At-HANSAPUR, Khata No-503, Plot No- 1764/2119, 276/2123, 1764/2121 & 03/2118 Kissam- Nadi (Longitude-84°59'55.2" Latitude-19°24'49.0") to (Longitude-85°00'49.9" Latitude-19°25'40.9")
E2	RUSHIKUL YA	POTLAMPUR				6.07				Non-Working	No	At-POTLAMPUR, Khata No-282, Plot No- 279/1054, Kissam- Nadi (Longitude-84°59'34.01" Latitude-19°26'18.08") to (Longitude-84°59'36.3" Latitude-19°26'20.6")
E3	RUSHIKUL YA	BARANGA				6.07				Non-Working	No	At-BARANGA, Khata No-463, Plot No- 962/1943, Kissam- Nadi (Longitude-84°58'9.07" Latitude-19°26'46.8") to (Longitude-84°58'14.8" Latitude-19°26'47.0")

E4	RUSHIKUL YA	BADAMADHAPUR	Sarat Behera	Vill-Kunditarapatna, po-johal, Ps-Balianta, dist-Khorda,752101, Mob no-9437419968	No-682303102, dtd 04.09.2023	6.07	2023-24	2028-29	Nil	Working	No-419961/319-MINB1/02/2023 Dt-18-Aug-2023	Vill-BADAMADHAPUR Khata No-1399, Plot No- 909/7520, Kissam- Nadi (Longitude-84°58'9.06" Latitude-19°27'41.6") to (Longitude-84°58'07.5" Latitude-19°27'47.8")
NEW SOURCES												
E5	RUSHIKUL YA	Gova Sand				5						Vill-GOVA, Khata No-836, Plot No- 110, Kissam- Nadi Longitude- 19.5 Latitude-84.944
Name of the Tahasil:- GANJAM												
F1	RUSHIKUL YA	ALLIABAD Sand Quarry	Krupasindhu Muduli	Vill-Ramakrushna Nagar 2nd Lane, po-Berhampur, Ps-Baidyanathpur, Mob no-8658355655	No-11962301689, dtd-11.10.2023	5.058	2023-24	2028-29	Nil	Working	No-EC23B0010R18 6670 Dt-04-Oct-2023	Vill-ALLIABAD, Khata No-610, Plot No- 328/1310 , Kissam-Nadi (Longitude-85°01'48.65" Latitude-19°23'36.40") to (Longitude-85°01'56.55" Latitude-19°23'45.03")
F2	RUSHIKUL YA	SRIBANA Sand Quarry	Sarat Behera	Vill-Kunditarapatna, po-johal, Ps-Balianta, dist-Khorda,752101, Mob no-9437419968	Settled	5.059				Non-Working	No	AT-SRIBANA, Khata No-175, Plot No- 427, Kissam- Nadi (Longitude-85°0'44.06" Latitude-19°24'57.03") to (Longitude-85°00'58.44" Latitude-19°25'11.26")
F3	RUSHIKUL YA	BAHALPUR Sand Quarry				5.059				Non-Working	No	AT-BAHALPUR, Khata No-356, Plot No- 946/1250, Kissam- Nadi (Longitude-85°00'26.65" Latitude-19°25'14.16") to (Longitude-85°00'41.34" Latitude-19°25'22.26")
F4	RUSHIKUL YA	SRIBANABATI MALA Sand Quarry				5.261				Non-Working	No	AT-SRIBANABATIMALA, Khata No-873, Plot No- 554/2950, Kissam- Nadi (Longitude-85°01'34.84" Latitude-19°24'49.38") to (Longitude-85°01'26.27" Latitude-19°24'40.43")
F5	RUSHIKUL YA	Damodarapur Sand Quarry				5				Non-Working	No	AT- Damodarapur, Khata No-189, Plot No-262, Kissam- Nadi LAT- 19.385 LONG-85.038
F6	RUSHIKUL YA	Bajrakote-1 Sand Quarry				5				Non-Working	No	AT- Bajrakote, Khata No-38, Plot No-9, Kissam- Nadi LAT- 19.447 LONG-84.99
F7	RUSHIKUL YA	Bajrakote-2 Sand Quarry				5				Non-Working	No	AT- Bajrakote, Khata No-38, Plot No-197, Kissam- Nadi LAT- 19.442 LONG-84.992

F8	RUSHIKUL YA	Barapalli Sand Quarry				7.97					Not-Working		AT- barapalli, Khata No-569, Plot No-1715 & 1716 , Kissam-Nadi LAT-19.468 LONG-84.97
Name of the Tahasil:- HINJILICUT													
G1	RUSHIKUL YA	Long term lease of sand bed,kharida				5.261					Non-Working	No	AT- kharida, Khata No-554, Plot No- 4553/1 & 4532/1, Kissam-Nadi (Longitude-84°46'35.82" Latitude-19°29'48.79") to (Longitude-84°46'43.72" Latitude-19°30'00.70")
Name of the Tahasil:- PURUSOTTAMPUR													
H1	RUSHYKULYA	Burutulu Sand bed				4.047					Non-Working	No	AT- Burutulu, Khata No-186, Plot No-901, Kissam- Nadi LAT-19.506 LONG-84.834
H2	RUSHYKULYA	Balia Sand Quarry				5.2003					Non-Working	No	AT- Balia, Khata No-1054 & 786, Plot No-2605 & 1 , Kissam- Nadi LAT-19.493 LONG-84.952
H3	RUSHYKULYA	Kanaka Sand Bed	Krupasindhu Muduli	Vill-Ramakrushna Nagar 2nd Lane, po-Berhampur, Ps-Baidyanathpur, Mob no-88959 43443	No-10682401132, Dtd-12.04.2024	31.21	2024-25	2029-30	Nil	Working	No-EC24BO107ORS141186N Dt-04-Apr-2024		AT-Kanaka, Khata No-472, Plot No- 865, 865/1012 & 785/1013, Kissam- Nadi(Longitude-84°51'9.09" Latitude-19°30'22.23") to (Longitude-84°51'10.73" Latitude-19°30'15.84")
H4	RUSHYKULYA	BHIMPUR SAND BED	Smt.Janaki Devi Mishra	Bharatpur Nuagaon, Maliapada, Bhubaneswar	No-10682202568, Dtd-06.09.2022	4.219	2022-23	2027-28	Nil	Working	No-SIA/OR/MIN/296468/2023 Dt-21-Jul-2023		AT- BHIMPUR, Khata No-640, Plot No- 1320, Kissam-Nadi(Longitude-84°50'59.00" Latitude-19°30'22.67") to (Longitude-84°50'59.00" Latitude-19°30'17.07")
NEW SOURCES													
H5	RUSIKULYA	MahaChai Sand Source				10.83					Not-Working		AT- MAHACHAI, Khata No-664, Plot No- 2610, Kissam-Nadi(Longitude-84°45'42.43" Latitude-19°30'52.34")
H6	RUSIKULYA	Handi Ghara sand bed				18.02					Not-Working		AT- HANDIGHARA, Khata No-660, Plot No- 1739, Kissam-Nadi LAT-19.495 LONG-84.91
H7	RUSIKULYA	Morabai Sand				12.35					Not-Working		AT- MORABAI, Khata No-380 Plot No-1209 , Kissam- Nadi (Longitude- Latitude- to (Longitude-19.501 Latitude-84.825)

H8	RUSIKULI YA	Achuli Sand bed				8.16					Not-Working		AT- ACHULI, Khata No-409, Plot No-617,618,1022 , Kissam- Nadi Longitute-19.497 ,Lattitute-84.899
Name of the Tahasil:- KABISURIYANAGAR													
NEW SOURCES													
Q1	RUSIKULI YA	Bhetasingi Sand Source				4.532							AT-BHETASINGI Khata No-293(AAA),Plot No-1229/1384/A, KISSAM-NADI (Latitude-19°31'44.40" N LONGITUDE-84°44'58.95" E)
BHANJANAGAR SUB-DIVISION													
Name of the Tahasil:- ASKA													
11	Bada River	Dhanja Sand Bed	Santosh Ku Behera	Gunthapada	10582200277/ 04.02.22	4.856	2022	2027	13.04.22	Working	SIA/OR/303165 /2023	Mouza-Dhanja ,Khata-851, Plot-531, 522 , Kissam- Nadi, Lat-19°42'30.1"- 19°42'39.3", Long-84°40'50.0"- 84°40'59.2"	
12	Bada River	Bangarada Sand Bed	P. R Mishra M/s Prem	Bhubaneswara	1795/ Dtd. 27/04/2021	4.856	2021	2026	NA	Non-Working	2998/SEIAA, Dtd, 28.09.2021	Mouza-Bangarada ,Khata-1429, Plot-3842 , Kissam- Nadi, Lat-19°45'49.8"-19°46'03.30", Long-84°39'37.7"- 84°39'48.4"	
13	Bada River	Gahangu Sand Bed	Smd.Chinm ayi Mahamty	Kabisurjya Nagar	1986/Dtd, 12.05.2021	4.856	2021	2026	24/08/2022	Working	1933/SEIAA, Dtd. 28.09.2021	Mouza-Bangarada ,Khata-1254, Plot-1 , Kissam- Nadi, Lat-18°49'33.49"- 18°49'25.46", Long-84°10'07.38"-84°10'00.28"	
14	Bada River	Jagadalpur Sand Bed	Kalpna Nahak	Kalasantdhapur	10582101374/ 09.08.21	4.856	2021	2026	09-08-2021	Working	SIA/OR/MIN/29 9667/2023	Mouza-Bangarada ,Khata-466, Plot-337,194 , Kissam- Nadi, Lat-19°40'27.25"- 19°40'43.78", Long-84°39'15.40"- 84°39'22.42"	
15	Bada River	Narasingapali sand Bed	Jamuna Mahanty	Asika	10582102251/ 14.10.21	4.856	2022	2027	02-02-2022	Working	3221/SEIAA, Dtd. 05/10/2021	Mouza-Bangarada ,Khata-109, Plot-1 , Kissam- Nadi, Lat-19°35'56.13"- 19°36'15.06", Long-84°40'39/79"- 84°40'47.56"	
16	Rushikulya River	Mangalapur Sand Bed	Abhimanyu nahak	Gobanala	10582102362/ 23.12.21	4.856	2022	2027	01-07-2022	Working	2741/SEIAA, Dtd. 22.09.2021	Mouza-Bangarada ,Khata-1522, Plot-3025,3348 , Kissam- Nadi, Lat-19°37'50.9"- 19°37'57.4", Long-84°36'48.0"- 84°36'59.5"	
NEW SOURCES													
17	Rushikulya River	Padhal Sand Bed				4.651							AT-Padhal, Khata No-354, Plot No- 1946 , Kissam- Nadi,Longitute-19.581 Lattitute-84.675

18	Rushikulya River	Kendupadar Sand Bed				4.451							AT-Kendupadar, Khata No-611, Plot No- 610/1265 , Kissam- Nadi Longitude-19.565 Lattitude-84.698
19	Bada River	Nirala Sand Bed				4.653							AT-Nirala, Khata No-316, Plot No- 1791 , Kissam- Nadi Longitude- 19.646 Lattitude-84.66
110	Rushikulya River	Khadabhaga Sand Bed				4.653							AT-KHADABHAGA, Khata No-504(AAA), Plot No- 908, Kissam- Nadi Longitude- 19.574 Lattitude-84.68
Name of the Tahasil:- BUGUDA													
J1	Bada River	Bishnuchakra Sand Bed				1.43					Non-Working	NA	Mouza-Bishnuchakra ,khata-913, Plot- 4045,kissam-Nadi,Lat-19°45'38.37"-19°45'45.95", Long-84°45'58.18"-84°40'05.05"
Name of the Tahasil:- BHANJANAGAR													
K1	Bada River	Bhereda Sand Bed	Baisnaba Charana Nayak	Paradeep	10592300945/17.03.23	4.947	2023	2028	03-02-2023	Working	EC23B001OR164075		Mouza-Bhereda ,khata-360, Plot-315, 662/P,kissam-Nadi,Lat-19°56'10.28"-19°56'43.87Long- 84°36'24.65"-84°36'49.93"
K2	Bada River	Baruda Sand bed	Aswin Kumar Achrya	G. Udayagiri	10592303642/17.08.23	2.434	2023	2028	24/08/2023	Working	4031471814-MINB2/10/2022/21.02.23		Mouza-Baruda ,khata-723,, Plot-1617/A,kissam- NadiLat-19°59'28.50"-19°59'39.13"Long-84°37'47.14"- 84°37'55.36"
K3	Lohorkhandi River	Badakodanda-I Sand Bed	Rabindra	Benakunda	10592300057/06.01.23	3.258	2023	2028	18/01/2023	Working	286352/800-MINB2/08-2022		Mouza- Badakodanda ,khata-1430 ,, Plot-3625/A,kissam-NadiLat-Long-19°56'21.53"-19°56'25.93" 87°33'56.62"-84°34'10.75"
K4	Lohorkhandi River	Gamundi Sand Bed	Rabindra.Gouda	Dhudhua	10592201461/04.05.2022	4.937	2023	2028	18/11/2023	Working	SIA/OR/MIN/303144/2023		Mouza- ,khata-999,339,kissam-Nadi, Plot-203/A,703/A,Lat-19°55'05.96"- 91°55'20.70", Long-84°35'19.52"- 84°35'39.17"
K5	Lohorkhandi River	Badakodanda-II Sand Bed	R.J Bharat Kumar	Vishkhapatnam	6525/Dtd.12.12.2022	4.998	2022	2027	NA	Non-Working	NA		Mouza-Badakodanda ,khata-1430, Plot-1991, kissam-Nadi,Lat-19°56'21.53"-91°56'25.93", Long-84°32'19.15"-84°32'58.07"

Name of the Tahasil:- BELLAGUNTHA												
L1	Bada River	Nuagam Sand bed	Jaya Bhart Rangola	BBSR	1443/ Dtd. 18.07.2024	4.999	2023	2028	NA	Non-Working	NA	Mouza-Nuagaon ,khata-969, Plot- 125,292,291,kissam- Nadi, Lat-19.924, Long-84.602
L2	Bada River	Benipali Sand bed	Sunil Kumar Pradhan	Mujgada	12132400945/ 15.06.24	6.283	2024	2029	07-04-2024	Working	EC23B0107OR5 430245N	Mouza-Benipalli ,khata-859, Plot-210,211,kissam- Nadi, Lat- 19°50'35.11"- 19°51'00.95", Long- 84°37'29.19"- 84°37'35.73"
L3	Bada River	Banka Sand bed	Deeprue Ventures India Opc,	Belaguntha	1455/ Dtd.18.07.202 4	4.37	2024	2029	NA	Non-Working	NA	Mouza-Banka ,khata-852, Plot- 2047,kissam- Nadi, Lat- 19°49'30.60"- 19°49'44.77", Long- 84°37'28.13"- 84°37'35.28"
L4	Bada River	Suramani Sand bed	M/S Aariz Constructio n BBSR	Nuagaon	3511/Dtd. 26.09.2022	5.038	2022	2027	NA	Non-Working	NA	Mouza- Suramani,khata- 232,Plot-659, 1/1725,kissam- Nadi, Lat- 19°48'35.62"- 19°48'57.34"Long- 84°37'47.25"- 84°37'54.87"
L5	Bada River	Girisola Sand bed	Santunu Kumar Behera	Nuagaon	12132400644/ 16.04.24	6.161	2024	2029	15/05/2024	Working	SIA/OR/MIN/45 5933/2023	Mouza- Girisola,khata-970, Plot-1,kissam- Nadi, Lat- 19°50'23.10"- 19°50'45.20", Long- 84°37'32.80"- 84°37'44.70"
L6	Bada River	Kokolunda Sand bed	Dharnidhra panda	Buguda	1439/Dtd, 18.07.2024	5.413	2024	2029	NA	Non-Working	NA	Mouza-Kokolunda ,khata-483, Plot-2141/2158,kissam- Nadi, Lat-19°50'23.10"- 19°50'45.20"Long- 84°38'50.14"- 84°29'02.28"
L7	Bada River	Ambapua Sand bed	Sunil Kumar Mahanty	Bhanjanagar	12132400771	6.377	2024	2029	13/06/2024	Working	SIA/OR/MIN/46 8490/22430.04. 24/	Mouza-Ambapua ,khata-694, Plot-71/2179, 71, 1289,kissam- Nadi, Lat-19°42'31.39"- 19°51'48.82", Long- 84°38'23.25"- 84°39'19.60"
Name of the Tahasil:- JAGANNATHPRASAD												
M1	Bada River	Kandarasing Sand Bed	Samir Tarai	Baragaon	1230200018	12.106	16- 07- 1905	2029	08-08-2024	Non-Working	EC24B001OR14 8837	Mouza-Kandarasing ,khata- 567, Plot-3222,3112,3119,2794, 2268 ,kissam- Nadi, Lat- 19°54'16.19"- 19°54'36.46", Long- 84°43'18.57"- 84°43'42.15"
M2	Bada River	Sorisamuli Sand Bed	Ajya Kumar Kanara	Barida	10592303476 47 6	4.452	2024	2029	01-05-2024	Working	EC23B001OR12 0921	Mouza-Sorisamuli ,khata- 283, Plot-973,kissam- Nadi, Lat- 19°53'16.80"- 19°53'28.28" Long- 84°41'56.93"- 84°42'12.65"
M3	Bada River	Tentulia Sand Bed	Jaganath Kanara	Linepada, Kandhamal	412/06.02.202 3	4.696	2023	2028	NA	Non-Working	NA	Mouza-Tentulia ,khata-344, Plot-2043,kissam- Nadi, Lat- 19°53'49.48"- 19°53'58.58"Long- 84°42'39.82"- 84°42'46.16"

M4	Bada River	Nimapadar Sand Bed	Chitra Sana Swain	Mantapur	10592400274	4.401	2024	2029	20/02/2024	Working	EC23B001OR186002	Mouza- Nimapadara,khata-1472, Plot-744,kissam- Nadi, Lat-19°52'55.46"- 19°53'3.12", Long- 84°41'13.46"- 84°41'29.60"
Name of the Tahasil:- SHERAGADA												
N1	Rushikulya River	Santoshpur Sand Bed	Sarat Behera	BBSR	1635/ Dtd. 17.05.2021	4.856	2021	2026	08-05-2021	Working	2737/SEIAA	Mouza- Santoshpur,khata-417, Plot-45,kissam- Nadi, Lat-19°32'01.85"- 19°32'01.86", Long- 84°44'01.99"- 84°44'13.94"
N2	Rushikulya River	Pakidi Sand Bed	Sudha Nadhi Choudhary	Gudisara	373/Dtd. 24.01.2020	11.623	2022	2027	25.02.2022	Working	SIA/OR/MIN/299375/2023.06.04.2024	Mouza-Pakidi ,khata-507, Plot-1,kissam- Nadi, Lat-19°33'08.55"- 19°33'31.43" Long- 84°42'09.61"-84°42'25.91"
Name of the Tahasil:- SORODA												
O1	Rushikulya River	G.P. Sasan Sand bed	B.Laxmi Naryana Dora	Kendupadar	10692200327/ 07.04.2022	4.996	2022	2027	13/04/2022	Working	SIA/OR/MIN/296192/2023/21.07.2023	Mouza- G.P. Sasan,khata-271, Plot-1501,kissam- Nadi, Lat-19°45'25.92"-19°45'35.17", Long- 84°27'03.73"- 84°27'17.06"
Name of the Tahasil:- DHARAKOTE												
P1	Rushikulya River	Kapilash Sand Bed	Chiranjiv Dash	Dhorakote	1345/Dtd.22. 04.2022	5.518	2024	2029	08-03-2024	Working	SIA/OR/MIN/423787/2023	Mouza-Kapilash ,khata-201, Plot-391,kissam- Nadi, Lat-19°38'52.41"- 19°29'11.89", Long- 84°35'22.36"- 84°35'37.34"
P2	Rushikulya River	Pankalbadi - B Sand Bed	Krupa Sindhu Mudduli	Berhampur	1088/Dtd. 31.03.2022	5.132	NA	NA	NA	Non-Working		Mouza-Pankalabadi ,khata-319, Plot-1837,2231,kissam- Nadi, Lat-19°36'23.47"- 19°36'27.53", Long- 84°38'20.24"- 84°38'38.68"
P3	Rushikulya River	Laxmipur Sand Bed	Kalpana Nahak	Kalasanghapur	1003/Dtd. 29.03.2022	5.244	2023	2028	24/9/2023	Working	SIA/OR/MIN/417777/2023	Mouza-Laxmipur ,khata-189, Plot-302, 580(P),kissam- Nadi, Lat-19°37'06.32"- 19°37'23.04"Long- 84°37'13.58"- 84°37'20.96"
P4	Rushikulya River	Jahada Sand Bed	Keshab Rao Dora	Janibilli	1299/ Dtd. 19.04.2022	7.603	2024	2029	02-01-2024	Working	EC23B001OR181004	Mouza- Jahada,khata-861, Plot-5680 ,5681,kissam- Nadi, Lat-19°40'41.98"- 19°40'51.90", Long- 84°33'37.19"- 84°33'53.23"

NB: in the above table omitted Column is

Column- 12 Captive/ Non captive

Column- 15 Method of Mining (Opencast/Underground) - All Open cast

04. DETAILS OF ROYALTY OR REVENUE RECEIVED IN LAST THREE YEARS

ROYALTY OF SAND					
Sl. No.	Name of the Tahasil	Name of Source	Royalty for last three years (in LAKH)		
			2021-22	2022-23	2023-24
BERHAMPUR SUB DIVISION					
1	CHIKITI	Chadiapada Sand Quarry	-	-	-
2		PARASAMBA SAND QUARRY	1.7	1.7	1.7
3		K.NUAGAM SAND QUARRY	Nil	32.7	32.7
4		SUNDARADA SAND QUARRY	Nil	51.6	51.6
5		KALABADA SAND QUARRY -I	Nil	9	9
6		KALABADA SAND QUARRY -II	Nil	9.3	9.3
7		CHILADI SAND QUARRY-I	10	10	10
8		CHILADI SAND QUARRY-II	Nil	Nil	11.6
9		BADA BARANGA SAND QUARRY -II	Nil	Nil	Nil
10		BADA BARANGA SAND QUARRY -I	Nil	Nil	Nil
11		BHOLASINGI SAND QUARRY	Nil	Nil	Nil
12	DIGAPAHANDI	TENTUAPADA-A SAND QUARRY	Nil	Nil	7.29
13		CHAITANYA PRASAD SAND QUARRY	0.76	0.76	0.76
14		DHANARASI SAND QUARRY	Nil	9.3	9.3
15		KALINGADOLA SAND QUARRY	Nil	Nil	Nil
16		JALAMERIPALLI SAND QUARRY	Nil	9.5	9.5
17		JALAMERIPALLI SAND QUARRY	Nil	0.5	0.5
18		GOUDAGAM SAND QUARRY	Nil	Nil	Nil
19		CHASANIMAKHANDI SAND QUARRY	Nil	1.5	1.5
20		Phasiguda Sand Quarry-1	Nil	Nil	Nil
21		PHASIGUDA SAND QUARRY	Nil	Nil	Nil
22		TENTUAPADA-B SAND QUARRY	Nil	Nil	Nil
23	BAJRAGUMMA SAND QUARRY	Nil	Nil	Nil	
24	PATRAPUR	Nadigam Sand Quarry	Nil	Nil	Nil
25		KOLIALA SAND QUARRY	Nil	20	20
26		KHARNIPADA SAND QUARRY	1.4	1.4	1.4
27	SANAKHEMUNDI	BHALIAJHOLA SAND SOURCE	9.8	9.8	9.8
28		LUNINATHI SAND BED	9.35	9.35	9.35
29		KHALINGI SAND SOURCE	14.7	14.7	14.7
30		ERENDRA SAND SOURCE	17	17	17
31		MOULABHANJA SAND SOURCE	Nil	9.97	9.97
32		SUNDHIPALLI SAND SOURCE	Nil	Nil	Nil
33		KHOLADI SAND SOURCE	Nil	Nil	Nil
34		KARAKHANDI,GHODAHADA	Nil	Nil	Nil
35		DHARMARAYPUR SAND SOURCE	Nil	Nil	Nil
36		AMBAGAM SAND SOURCE	Nil	Nil	Nil
CHHATRAPUR SUB DIVISION					
37	CHHATRAPUR	HANSAPUR	NA	NA	NA
38		POTLAMPUR	NA	NA	NA
39		BARANGA	NA	NA	NA
40		BADAMADHAPUR	NA	NA	337
41	GANJAM	ALLIABAD	NA	NA	23
42		SRIBANA	NA	NA	NA
43		BAHALPUR	NA	NA	NA
44		SRIBANABATIMALA	NA	NA	NA
45		DAMODARPUR SAND QUARRY			
46		BAJRAKOTE-1 SAND QUARRY			
47		BAJRAKOTE-2 SAND QUARRY			
48		BARAPALLI SAND QUARRY			

49	HINJLICUT	LONG TERM LEASE OF SAND BED,KHARIDA	NA	NA	NA
50	PURUSOTTAMPUR	BURUTULU SAND BED	49.6	49.6	49.6
51		BALIA SAND	NA	NA	NA
52		KANAKA SAND BED	NA	NA	NA
53		BHIMPUR SAND BED	NA	76.9	76.9
BHANJANAGAR SUB-DIVISION					
54	ASKA	DHANJIA SAND BED	NA	20	20
55		BANGARADA SAND BED	NA	NA	NA
56		GAHANGU SAND BED	NA	43	43
57		JAGDALPUR SAND BED	29	29	29
58		NARASINGAPALLI SAND BED	35.5	35.5	35.5
59		MANGALAPUR SAND BED	13.5	13.5	13.5
60	BUGUDA	BISHNUCHAKRA SAND BED	NA	NA	NA
61	BHANJANAGAR	BHEREDA SAND BED	NA	NA	222
62		BARUDA SAND BED	NA	NA	136.5
63		BADAKODANDA-I SAND BED	NA	21.5	21.5
64		GAMUNDI SAND BED	NA	5.5	5.5
65		BADAKODANDA- II SAND BED	NA	NA	NA
66	BELLAGUNTHA	NUAGAM SAND BED	NA	NA	NA
67		BENIPALI SAND BED	NA	NA	NA
68		BANKA SAND BED	NA	NA	NA
69		SURAMANI SAND BED	NA	NA	NA
70		GIRISOLA SAND BED	NA	NA	NA
71		KOKOLUNDA SAND BED	NA	NA	NA
72		AMBAPUA SAND BED	NA	NA	NA
73	JAGANNATHPRASAD	KANDARASING SAND BED	NA	NA	NA
74		SORISAMULI SAND BED	NA	NA	0.6
75		TENTULIA SAND BED	NA	NA	NA
76		NIMAPADAR SAND BED	NA	NA	0.7
77	SHERAGADA	SANTOSH PUR SAND BED	157	157	157
78		PAKIDI SAND BED	36	36	36
79	SORODA	G.P. SASAN SAND B	3.7	3.7	3.7
80	DHARAKOTE	KAPILASH SAND BED	NA	NA	NA
81		PANKALBADI - B SAND BED	NA	NA	NA
82		LAXMIPUR SAND BED	NA	NA	50
83		JAHA DA SAND BED	NA	NA	23.4

05. DETAIL OF PRODUCTION OF SAND IN LAST THREE YEARS.

PRODUCTION OF SAND						
Sl. No.	Name of the Tahasil	Name of Source	Production for last three years (in Cum)			
			2021-22	2022-23	2023-24	
BERHAMPUR SUB DIVISION						
1	CHIKITI	CHADIAPADA SAND QUARRY	Nil	Nil	Nil	
2		PARASAMBA SAND QUARRY	5000	5000	5000	
3		K.NUAGAM SAND QUARRY	Nil	10000	10000	
4		SUNDARADA SAND QUARRY	Nil	7005	7005	
5		KALABADA SAND QUARRY -I	Nil	5001	5001	
6		KALABADA SAND QUARRY -II	Nil	5001	5001	
7		CHILADI SAND QUARRY-I	2100	2100	2100	
8		CHILADI SAND QUARRY-II	Nil	5001	5001	
9		BADA BARANGA SAND QUARRY -II	Nil	Nil	Nil	
10		BADA BARANGA SAND QUARRY -I	Nil	Nil	Nil	
11		BHOLASINGI SAND QUARRY	Nil	Nil	Nil	
12	DIGAPAHANDI	TENTUAPADA-A SAND QUARRY	Nil	Nil	5250	
13		CHAITANYA PRASAD SAND QUARRY	1900	1900	1900	
14		DHANARASI SAND QUARRY	Nil	5000	5000	
15		KALINGADOLA SAND QUARRY	Nil	Nil	Nil	
16		JALAMERIPALLI SAND QUARRY	Nil	5000	5000	
17		JAKAMERIPALLI SAND QUARRY	Nil	725	725	
18		GOUDAGAM SAND QUARRY	Nil	Nil	Nil	
19		CHASANIMAKHANDI SAND QUARRY	Nil	3000	3000	
20		PHASIGUDA SAND QUARRY-1	Nil	Nil	Nil	
21		PHASIGUDA SAND QUARRY	Nil	Nil	Nil	
22		TENTUAPADA-B SAND QUARRY	Nil	Nil	Nil	
23		BAJRAGUMMA SAND QUARRY	Nil	Nil	Nil	
24		PATRAPUR	NADIGAM SAND QUARRY	Nil	Nil	Nil
25			KOLIALA SAND QUARRY	Nil	3000	3000
26			KHARNIPADA SAND QUARRY	2830	2830	2830
27	SANAKHEMUNDI	BHALIAJHOLA SAND SOURCE	5010	5010	5010	
28		LUNINATHI SAND BED	5600	5600	5600	
29		KHALINGI SAND SOURCE	7875	7875	7875	
30		ERENDRA SAND SOURCE	1530	1530	1530	
31		MOULABHANJA SAND SOURCE	Nil	5700	5700	
32		SUNDHIPALLI SAND SOURCE	Nil	Nil	Nil	
33		KHOLADI SAND SOURCE	Nil	Nil	Nil	
34		KARAKHANDI,GHODAHADA	Nil	Nil	Nil	
35		DHARMARAYPUR SAND SOURCE	Nil	Nil	Nil	
36		AMBAGAM SAND SOURCE	Nil	Nil	Nil	
CHHATRAPUR SUB DIVISION						
37	CHHATRAPUR	HANSAPUR SAND SOURCE	NA	NA	NA	
38		POTLAMPUR SAND SOURCE	NA	NA	NA	
39		BARANGA SAND SOURCE	NA	NA	NA	
40		BADAMADHAPUR SAND SOURCE	NA	NA	12745	
41	GANJAM	ALLIABAD SAND SOURCE	NA	NA	6000	
42		SRIBANA SAND SOURCE	NA	NA	NA	
43		BAHALPUR SAND SOURCE	NA	NA	NA	
44		SRIBANABATIMALA	NA	NA	NA	
45		DAMODARPUR SAND QUARRY	-	-	-	
46		BAJRAKOTE-1 SAND QUARRY	-	-	-	

47		BAJRAKOTE-2 SAND QUARRY	-	-	-
48		BARAPALLI SAND QUARRY	-	-	-
49	HINJILICUT	LONG TERM LEASE OF SAND BED,KHARIDA	NA	NA	NA
50	PURUSOTTAMPUR	BURUTULU SAND BED	25200	25200	25200
51		BALIA SAND	NA	NA	NA
52		KANAKA SAND BED	NA	NA	NA
53		BHIMPUR SAND BED	NA	10000	10000
BHANJANAGAR SUB-DIVISION					
54	ASKA	DHANJIA SAND BED	10000	10000	10000
55		BANGARADA SAND BED	0	0	0
56		GAHANGU SAND BED	3294	3294	3294
57		JAGADALPUR SAND BED	11001	11001	11001
58		NARASINGAPALLI SAND BED	12000	12000	12000
59		MANGALAPUR SAND BED	5000	5000	5000
60	BUGUDA	BISHNUCHAKRA SAND BED			
61	BHANJANAGAR	BHEREDA SAND BED	13200	13200	13200
62		BARUDA SAND BED	17000	17000	17000
63		BADAKODANDA-I SAND BED	6501	6501	6501
64		GAMUNDI SAND BED	0	2050	2700
65		BADAKODANDA- II SAND BED	0	0	0
66	BELLAGUNTHA	NUAGAM SAND BED	7000	0	0
67		BENIPALI SAND BED	0	0	7500
68		BANKA SAND BED	6000	0	0
69		SURAMANI SAND BED	0	0	0
70		GIRISOLA SAND BED	0	0	5000
71		KOKOLUNDA SAND BED	2200	0	0
72		AMBAPUA SAND BED	0	0	1810
73	JAGANNATHPRASAD	KANDARASING SAND BED	0	0	7250
74		SORISAMULI SAND BED	0	0	2030
75		TENTULIA SAND BED	0	0	0
76		NIMAPADAR SAND BED	3015	3015	3015
77	SHERAGADA	SANTOSH PUR SAND BED	20000	20000	20000
78		PAKIDI SAND BED	18000	18000	18000
79	SORODA	G.P. SASAN SAND B	1875	1875	1875
80	DHARAKOTE	KAPILASH SAND BED	0	0	12000
81		PANKALBADI - B SAND BED	0	0	0
82		LAXMIPUR SAND BED	0	11000	11000
83		JAHADA SAND BED	0	0	11000

06. PROCESS OF DEPOSITION OF SEDIMENTS IN THE RIVERS OF THE DISTRICT.

Deposition is the Geological process in which sediments. Soil and rocks are added to a land fall or land mass. Wind, water and gravity transport previously weathered surface material, which at the loss of enough kinetic energy in the fluid, is deposited, building of layers of sediments. Deposition occurs when forces responsible for sediment transportation are no longer sufficient to overcome the forces of gravity and friction, creating a resistance to motion. Rivers and streams deposit sediment where the speed of the water current decreases. In rivers, deposition of occurs along the inside bank of the river bend, while erosion occurs along the outside bank of the bend, where the water flows a lot faster.

Sediment transport is critical to understanding how rivers work because it is the set of processes that mediates between the flowing water and the channel boundary. Erosion involves removal and transport of sediment (mainly from the boundary) and deposition involves the transport and placement of sediment on the boundary. Erosion and deposition are what form the channel of any alluvial river as well as the floodplain through which it moves. The amount and size of sediment moving through a river channel are determined by three fundamental controls: competence, capacity and sediment supply. Competence refers to the largest size (diameter) of sediment particle or grain that the flow is capable of moving: it is a hydraulic limitation. If a river is sluggish and moving very slowly it simply may not have the power to mobilize and transport sediment of a given size even though such sediment is available to transport. So a river may be competent or incompetent with respect to a given grain size. If it is incompetent it will not transport sediment of the given size. If it is competent it may transport sediment of that size if such sediment is available (that is, the river is not supply-limited). Capacity refers to the maximum amount of sediment of a given size that a stream can transport in traction as bedload. Given a supply of sediment, capacity depends on channel gradient, discharge and the calibre of the load (the presence of fines may increase fluid density and increase capacity: the presence of large particles may obstruct the flow and reduce capacity). Capacity transport is the competence-limited sediment transport (mass per unit time) predicted by all sediment-transport equations, examples of which we will examine below. Capacity transport only occurs when sediment supply is abundant (non-limiting). Sediment supply refers to the amount and size of sediment available for sediment transport. Capacity transport for a given grain size is only achieved if the supply of that caliber of sediment is not limiting (that is, the maximum amount of sediment a stream is capable of transporting is actually available). Because of these two different potential constraints (hydraulics and sediment supply) distinction is often made between supply-limited and capacity-limited transport. Most rivers probably function in a

sediment-supply limited condition although we often assume that this is not the case. Much of the material supplied to a stream is so fine (silt and clay) that, provided it can be carried in suspension, almost any flow will transport it. Although there must be an upper limit to the capacity of the stream to transport such fines, it is probably never reached in natural channels and the amount moved is limited by supply. In contrast, transport of coarser material (say, coarser than fine sand) is largely capacity limited.

Modes of Sediment Transport:

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

1. Dissolved load
2. Suspended load
3. Intermittent suspension (saltation) load
4. Wash load
5. Bed load

Sediment Transport in River/Water Stream:

The loose boundary (consisting of movable material) of an alluvial channel deforms under the action of flowing water and the deformed bed with its changing roughness (bed forms) interacts with the flow. A dynamic equilibrium state of the boundary may be expected when a steady and uniform flow has developed (Nalluri & Featherstone, 2001). The resulting movement of the bed material (sediment) in the direction of flow is called sediment transport and a critical bed shear stress (τ) must be exceeded to start the particle movement. Such a critical shear stress is referred to as incipient (threshold) motion condition, below which the particles will be at rest and the flow is similar to that on a rigid boundary.

Sediment Influx Rate

Sediment influx in ephemeral streams is generally confined to the beginning of the rainy season as velocity of the water washes down medium to fine sand and silt depending on the velocity and gradient of land. Cobbles, pebbles and boulders will be transported but only over short distance. Boulders are normally 256 mm and above are normally transported either by dragging action or by saltation.

Recharge is in two forms, one general deposition of coarse, medium and fine sand when the velocity of the river water decreases below the carrying capacity.

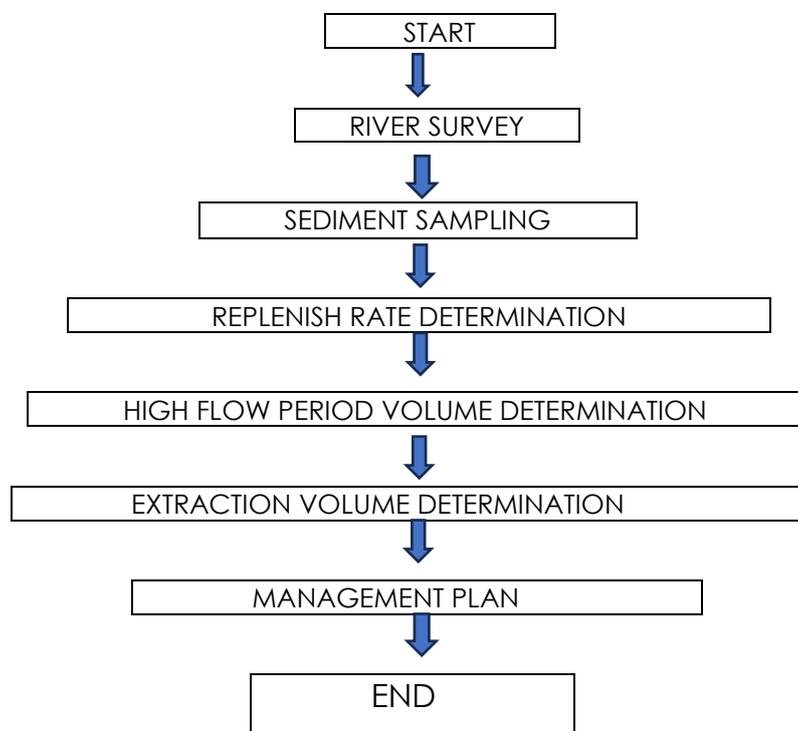
However, flash floods due to heavy rains in the upper reaches often cause rapid transportation of boulder, sand etc. along with silt which can never deposit.

Recharge Rate:

It is dependent upon the following 4 factors:

1. Velocity of the water and change of velocity
2. Size of particles
3. Temporary increase in density of carrying media due to presence of silt load.
4. Artificial or natural barriers being encountered within the river course, where due to the sudden check in velocity, materials are deposited

The numerical sedimentation rate varies from 50cm medium sand to as much as 3m of medium and fine sand where the slope of the river bed is less than 10° slope per season. For silt and clay, these only be deposited in the flood area and normally varies between 1-5m over 6 months period.



Flow Chart for volume estimation

Estimation of Sedimentation

The sedimentation rate in India is estimated using empirical formula, actual observed data and reservoir sedimentation survey. The recommended BIS (12182-1987) method have been widely used for reservoir planning. In addition, the sediment data is also collected by the state governments on river systems in their respective territories. Thus, there is enough data to estimate both the average annual sediment yield and also the distribution of annual sediment yields. There are also situations where the gauging

stations provide nested systems of catchments. In these situations, data can be used to identify the contribution to the total sediment yield from individual sub-catchments. Though this data is extremely useful and is recommended to be fully used for estimation of sediment rate, the data need to be interpreted with care. The sediment measurements are, in general, based on bottle sample taken from near the water surface. In general, the suspended sediment concentration varies with depth, with the sediment concentration being greatest at the lower levels. This means that the measurement may under estimate the suspended sediment concentrations. The data provides an excellent resource for estimating sediment yield directly. The sediment yield depends on catchment area, the average catchment slope, the lithology of the catchment, the land use, the drainage density, the annual/seasonal precipitation and storm events etc. There are a number of empirical methods developed in USA and still used worldwide to assess sediment erosion, including the Universal Soil Loss Equation (USLE), MUSIE, Revised Universal Soil Loss Equation (RUSLE). Some work has been done in India and certain empirical relations have been developed linking annual sediment yield with some of these parameters (CWC, 2010).

Estimation of sediment yield from the catchment area above the reservoir is usually made using river sediment observation data or more commonly from the experience of sedimentation of existing reservoirs with similar characteristics. On adopting the first procedure, it is usually necessary (though often not complied within practice) to evolve proper sediment water discharge rating curve and combine it with flow duration (or stage duration curve) based on uniformly spaced daily or shorter time units in case of smaller river basins. Where observed stage/flow data is available for only shorter periods, these have to be suitably extended with the help of longer data on rainfall to eliminate, as far as possible, the sampling errors due to shortness of records. The sediment discharge rating curves may also be prepared from hydraulic considerations using sediment load formulae, that is, modified Einstein's procedure but this has not yet become popular. It is also necessary to account for the bed load which may not have been measured. While bed load measurement is preferable: when it is not possible, it is often estimated as a percentage generally ranging from 5 to 20 percent of the suspended load. However, practical means of measuring bed load of sediment needs to be undertaken particularly in cases where high bed loads are

anticipated. To assess the volume of sediment that would deposit in the reservoir, it is further necessary to make estimates of average trap efficiency for the reservoir in question and the likely unit weight of sediment deposits, time averaged over the period selected. The trap efficiency would depend mainly on the capacity inflow ratio but would also vary with location of controlling outlets and reservoir operating procedures. The density of deposited sediment would vary with the composition of the deposits, the location of the deposit within the reservoir, the flocculation characteristics of clay and water, and the age of the deposit. For coarse material (0.0625 mm and above), variation of density with location and age may be unimportant. For silt and clay, this may be significant. Normally, a time and space average density of these fractions, applicable for the period under study is required for finding the overall volume of deposits. For this purpose, the trapped sediment for the period under study would have to be classified in fractions by corrections in inflow estimates of the fractions by trap efficiency. Most of the sediment removed from the reservoir should be from the silt and clay fraction. In some special cases, local estimates of densities at a point in the reservoir may be required instead of average density over the reservoir. Estimates of annual sediment yield/sedimentation rate assessed from past data are further required to be suitably interpreted and where necessary, the unit rates which would apply to the future period are computed by analysing data for trends or by making subjective adjustments for the likely future changes. Where the contributing drainage area is likely to be reduced by upstream future storages, only such of the projects as are under construction or which have the same priority of being taken up and completed as the project in question are considered for assessing the total sediment yield. Sediment observation data (see 15: 1800-1968) is necessary if the yield is being assessed from hydrometric data. If observational methods are inadequate, the possibility of large errors should be considered. For drawing conclusions from reservoir re-surveys, it is important that reduction of at least 10 percent or more has been observed in the capacities of the two successive surveys: if this is not done, inaccuracies in the successive surveys will distort the estimation of the capacity reduction between the surveys. If the loss of capacity is small, useful conclusions may not be forthcoming, and in such cases, river sediment measurements with its large observational errors may still

provide a better estimate. It is essential to make a proper assessment of sediment yield for reservoir under study taking relevant factors into account (BIS: 12182-1987).

A proper assessment of the effects of sediment transport and of the measures that may be necessary for its control requires a knowledge of the processes of sediment erosion, transportation, and deposition, and of their interaction with the hydrological processes in the catchment.

Erosion of Catchments

The most significant agent for eroding sediments from land is running water. Other agents of land erosion include wind and gravity. The processes by which water degrades the soil are complicated and depend upon the rainfall properties, soil properties, land slope, vegetation, agricultural methods, and urbanization process. The last two factors account for the most important effects of man's activities on erosion. Empirical equations have been developed for the determination of soil loss (sheet erosion) from agricultural lands. One of them, developed by Musgrave for conditions prevailing in the United States, is given as an example: $E = IRS 1.35 10.35 p^{1.75} (59.1)$ where E is the mean annual soil loss, in millimetres, I is the inherent erodibility of the soil, in millimetres, R is a land-cover factor, S is the land slope, in per cent, l is the length of the slope, in meters, and p is the 30-minute, two-year rainfall depth, in millimetres. The values of the parameters I and R are determined empirically from regional studies.

Channel Erosion

Channel erosion is caused by the forces of the concentrated flow of water. Its rate depends on the hydraulic characteristics of channel flow and on the inherent erodibility of channel materials. In non-cohesive materials, the resistance to erosion is affected by the size, shape, and specific gravity of the particles and by the slope of the bed. In cohesive materials it also depends on the bonding agents. The relationships between the hydraulic variables and the parameters influencing the erodibility of channels are not fully understood and are often expressed by empirical formulae. Stream- and river-control works may have a serious local influence on accelerating channel erosion if they cause an increase in channel depth, flow velocity, change the direction of the flow, or reduce the natural sediment load. The latter effect occurs frequently below dams and may persist for many kilometres downstream. Bare land and BEDlands may develop gullies with rates of advance that can be computed by empirical formulae

containing such parameters as the drainage area of the gully, slope of the approach channel, depth of rainfall, and clay content of the eroding soil.

Transportation of sediments in channels:

Fine (suspended) sediments transported in rivers originate mainly from the topsoil of the catchment and from the banks of the channels. However, fine sediments also originate from sewage and other return flows. A large portion of the transported material comes to rest on flood plains especially upstream from hydraulic structures. The settled material undergoes compaction and other physical and chemical changes that can sometimes prevent its re-erosion by flows that would have carried it previously. A decrease is usually found in the mean annual sediment transported per unit area of the catchment as the area of the catchment increases. The concentration of suspended sediment in runoff is described by formulae such as [2.5]: $\log c_s = C \log Q + B$ (59.2) in which c_s is the concentration expressed in weight per unit volume of water. Q is the water discharge. C is a dimensionless coefficient, and B is a function of the rainfall depth, of the antecedent discharge, or of other meteorological and hydrological variables. The concentration of suspended sediment varies within the channel cross-section. It is relatively high in the lower portion and may also be non-uniform laterally so that its sampling at several points or along several verticals of the cross-section is often necessary for obtaining its mean. The mean concentration should be evaluated to yield the total sediment weight per unit time when multiplied by the water discharge. The graph of suspended sediment against time usually has a peak that does not occur simultaneously with the peak discharge. This lag is a result of the specific conditions in a watershed, and no generalization has yet been formulated for the evaluation of this difference. Bed-load transport Coarse sediments (bed load) move by sliding, rolling, and bouncing along channels and are concentrated at or near the channel bed. The variables that govern transport are the size and shape of the particles and the hydraulic properties of the flow. As a consequence of the interaction between the hydraulic forces and the coarse sediment, the channel bed assumes different configurations known as plane, ripples, dunes, flat, standing waves, and anti-dunes. They exert resistance to the flow of water that varies within a wide range and assumes a maximum value for the dune configuration.

Sedimentation

When approaching its mouth, the flow velocity of a river decreases along with its ability to carry sediment. Coarse sediments deposit first, then interfere with the channel conveyance, and may cause additional river meanders and distributaries. The area of the flowing water expands, the depth decreases, the velocity is reduced, and eventually even fine sediments begin to deposit. As a result, deltas may be formed in the upper portion of reservoirs. The deposited material may later be moved to deeper portions of the reservoir by hydraulic processes within the water body. Sediments are deposited in accordance with their settling velocity. A significant concentration of suspended sediments may remain in the water column for several days after its arrival in a reservoir. This may interfere with the use of the stored water for certain purposes, e.g., for water supply or recreation. It should be emphasized that not all of the sediment deposits in a reservoir. A large portion of it remains in the upper zones of the watershed, some is deposited upstream from reservoirs, and some is carried downstream by the released water. The sediment-trapping efficiency in a reservoir depends upon the hydraulic properties of the reservoir, the nature of the sediment, and the hydraulic properties of the outlet. The density of newly deposited sediments is relatively low but increases with time. The organic component in the sediment may undergo changes that may reduce its volume and enhance biochemical processes in the stored water (WMO, 1994). Some of the famous sediment transport equations are:-

1. Dandy Bolton Equation

2. Modified Universal Soil Loss Equation (MUSLE) developed by Williams and Berndt (1977).

3. Yang Equations

4. Engelund-Hansen Equation

Dandy - Bolton formula is often used to calculate the sedimentation yield because

- The formula uses catchment area and mean annual runoff as key determinants
- It does not differentiate in basin wide smaller streams and their characteristics.
- Dandy and Bolton equation calculates all types of sediment yield Le. Sheet and rill Erosion, gully Erosion, channel Bed and bank erosion and mass movement etc.

Dandy Bolton Equation

1. Dandy Bolton formula is often used to calculate the sedimentation yield.
2. However Computed sediment yields normally would be low for highly erosive areas and high for well stabilized drainage basins with high plant density because the equations are derived from average values.
3. The equations express the general relationships between sediment yield, run off, and drainage area.
4. Many variables influence sediment yield from a drainage basin. They include climate, drainage area, soils, geology, topography, vegetation and land use.
5. The effect of any of these variables may vary greatly from one geographic location to another, and the relative importance of controlling factors often varies within a given land resource area.
6. The accuracy of the sedimentation surveys varied, ranging from reconnaissance type measurements of sediment deposits to detailed surveys consisting of closely spaced cross-sections or contours.

Sediment Yield vs. Drainage Area

On the average, sediment yield is inversely proportional to the 0.16 power of drainage area between 1 and 30,000 square miles.

Sediment Yield vs. Runoff

Sediment yield increased sharply to about 1,860 tons per square mile per year as runoff increased from 0 to about 2 inches. As runoff increased from 2 to about 50 inches, sediment yield decreased exponentially. Because sediment yield must approach zero as runoff approaches zero, a curve through the plotted points must begin at the origin. The abrupt change in slope of a curve through the data points at Q equals 2 inches precluded the development of a continuous function that would adequately define this relationship. Thus, there are two equations derived for when Q was less than 2 inches and when Q was greater than 2 inches (Dandy&Bolton, 1976).

Method of Mining

Extracting gravel from an excavation that does not penetrate the water table and is located away from an active stream channel should cause little or no change to the natural hydrologic processes unless the stream captures the pit during periods of

flooding. The exception is that changes in evapotranspiration, recharge, and runoff may create minor changes to the ground-water system, which may in turn affect stream flow.

a) Limiting extraction of material in floodplains to an elevation above the water table generally disturbs more surface area than allowing extraction of material below the water table.

b) In-stream extraction of gravel from below the water level of a stream generally causes more changes to the natural hydrologic processes than limiting extraction to a reference point above the water level.

c) In-stream extraction of gravel below the deepest part of the channel (the thalweg) generally causes more changes to the natural hydrologic processes than limiting extraction to a reference point above the thalweg.

d) Excavating sand and gravel from a small straight channel with a narrow floodplain generally will have a greater impact on the natural hydrologic processes than excavations on a braided channel with a wide floodplain.

e) Extracting sand and gravel from a large river or stream will generally create less impact than extracting the same amount of material from a smaller river or stream.

Lease No.	River Details	Lease Details	Area (in Ha)	Mineable Replenished Volume (in Cum)
BERHAMPUR SUB DIVISION				
A1	Bahuda	Chadiapada Sand Quarry, At:- CHADIAPADA, Khata No-631, Plot No- 1 & 1079, Kissam- Nadi (84°31'13.00" 19°14'16.80", & 84°31'9.30" 19°14'17.80")	5.09	32900
A2	Bahuda	PARASAMBA SAND QUARRY At:- Parasama, Khata No-407, Plot No- 1 & 177, Kissam- Nadi (84°34'8.50" 19°12'31.20", 84°34'6.50" 19°12'33.30")	5	29707
A3	Bahuda	K.NUAGAM SAND QUARRY At:- KAMPA NUAGAM, Khata No-401, Plot No- 4,531,2206 Kissam- Nadi (84°33'12.47" 19°13'42.73", 84°33'42.11" 19°12'55.04")	5	46380
A4	Bahuda	SUNDARADA SAND QUARRY At:- SUNDRAUDABIRA CHAITANYAPUR SASANA, Khata No-223, Plot No- 1059 Kissam- Nadi(84°30'38.20" 19°14'13.90", 84°30'38.80" 19°14'11.00")	5	52194
A5	Bahuda	KALABADA SAND QUARRY -I At:- KALABADA , Khata No-525, Plot No- 1 & 2395 Kissam- Nadi(84°35'37.00" 19°9'21.80", 84°35'36.00" 19°9'18.80")	4.062	29238

A6	Bahuda	KALABADA SAND QUARRY -II At:- KALABADA , Khata No-525, Plot No- 2395 Kissam- River (84°35'36.10" 19°9'24.50", 84°35'40.30" 19°9'25.10")	5	38542.5
A7	Bahuda	CHILADI SAND QUARRY-I At:-CHILADI , Khata No- 462, Plot No- 2369/2958 & 2179, Kissam- Nadi (84°35'32.17" 19°10'27.99", 84°35'30.58" 19°10'6.78")	5	47500
A8	Bahuda	CHILADI SAND QUARRY-II At:- CHILADI, Khata No-462, Plot No- 15/2957, Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")	4.77	49359
A9	Bahuda	BADA BARANGA SAND QUARRY -II , At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")	5.058	52324.5
A10	Bahuda	BADA BARANGA SAND QUARRY -I, At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'50.64" 19°9'1.08", 84°35'59.28"19°9'28.44")	5.73	57382.5
A11	Bahuda	BHOLASINGI SAND QUARRY , At:- BHOLASINGI, Khata No-378, Plot No-1556 , Kissam- Nadi (84°35'7.80" 19°11'20.40", 84°35'31.56"19°11'31.92")	6.437	45512
B1	Bahuda	TENTUAPADA-A SAND QUARRY, TENTUAPADA Khata No-324 & 1666, Plot No- 1603,1665 & 1666, Kissam- Nadi (84°32'9.70" 19°14'12.10", 84°32'10.20" 19°14'8.50")	5.666	46253
B2	KANTEIJODI RIVER	CHAITANYA PRASAD SAND QUARRY, CHAITANYA PRASAD Khata No-125, Plot No- 1130, Kissam- Nadi (84°32'21.60" 19°14'46.40", 84°32'22.10" 19°14'43.70")	2.1764	16185
B3	Bahuda	DHANARASI SAND QUARRY, DHANRASI Khata No-276, Plot No- 1 & 28, Kissam- Nadi (84°31'12.00" 19°14'4.00", 84°31'19.70" 19°14'3.50")	5.162	54500
B4	Bahuda	KALINGADOLA SAND QUARRY, KALINGADOLA, Khata No-270, Plot No- 575, Kissam- Nadi (84°32'57.12"19°13'37.56", 84°33'16.20"19°13'55.20")	6.645	31232
B5	Bahuda	JALAMERIPALLI SAND QUARRY, Jalameripalli, Khata No-327, Plot No-1488, Kissam- Nadi (84°29'49.50" 19°22'58.70", 84°30'1.60" 19°22'58.60")	8.8777	54820
B6	Bahuda	GOUDAGAM SAND QUARRY , GOUDAGAM, Khata No-844, Plot No-1917,1908 & 1848, (2.327, 2.239 & 1.790 Ha) Kissam- Nadi (84°29'1.20"19°13'22.90", 84°29'1.20"19°13'23.90")	6.355	45574
B7	Bahuda	CHASANIMAKHANDI SAND QUARRY , CHASANIMAKHANDI, Khata No-1004, Plot No- 1535 & 1427,(7.042 & 6.026) Kissam- Nadi (84°28'33.40"19°21'40.00", 84°28'33.80"19°21'40.10")	13.067	100358
B8	Bahuda	Phasiguda Sand Quarry-1 , PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi LAT- 19.392 LONG-84.507	5.196	28265
B9	Bahuda	PHASIGUDA SAND QUARRY ,PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi (84°30'8.26"19°23'25.75", 84°30'14.80"19°23'36.29")	5.196	28265
B10	Bahuda	TENTUAPADA-B SAND QUARRY , TENTUAPADA, Khata No-324, Plot No-2084, Kissam- Nadi (84°32'25.42"19°14'15.63",84°32'25.74"19°14'11.33")	5.982	40514
B11	Bahuda	BAJRAGUMMA SAND QUARRY , BAJRAGUMMA, Khata No-245, Plot No-694 & 695, Kissam- Nadi (84°28'29.28"19°11'33.00"84°28'41.52"19°11'49.56")	11.229	84708

C1	Bahuda	Nadigam Sand Quarry AT-NADIGAM, Khata No-520, Plot No-682& 684, Kissam- Nadi (84°34'28.93" 19°11'43.08", 84°34'53.78" 19°11'57.11")	5.577	29520
C2	Bahuda	KOLIALA SAND QUARRY AT-KOLIALA, Khata No-530, Plot No-1444, Kissam- Nadi (84°33'48.40" 19°12'53.18", 84°33'47.85" 19°12'51.45")	5	52558
C3	Bahuda	KHARNIPADA SAND QUARRY AT-KHARANIPADA, Khata No-777, Plot No-1098, Kissam- Nadi (84°34'9.92" 19°12'14.34", 84°34'9.03" 19°12'12.70")	0.405	4642
D1	GHODAHADA	BHALIAJHOLA SAND SOURCE BHALIAJHOLA, Khata No-527, Plot No-3588, Kissam- Nadi (84°35'39.84"19°27'6.12", 84°36'5.40"19°27'23.40")	5	35400
D2	GHODAHADA	LUNINATHI SAND BED At:- LUNINATHI,Khata No-170, Plot No- 1539, Kissam- River(84°33'36.87" 19°25'31.34", 84°34'0.17" 19°25'39.19")	3.439	28188
D3	GHODAHADA	KHALINGI SAND SOURCE At:- KHALINGI,Khata No-1186, Plot No- 1917, Kissam- Nadi (84°39'21.40" 19°26'26.63", 84°39'39.30" 19°26'7.04")	5	42791
D4	GHODAHADA	ERENDRA SAND SOURCE At-ERENDRA,Khata No-860, Plot No- 636, Kissam- Nadi (84°37'52.94" 19°27'10.30", 84°37'52.70" 19°27'8.11")	4.196	29412
D5	GHODAHADA	MOULABHANJA SAND SOURCE At- MOULABHANJA,Khata No-1505, Plot No- 4156, Kissam- Nadi (Longitude-84°31'20.05" Latitude-19°23'47.60") to (Longitude-84°31'30.16" Latitude-19°23'56.81")	3.817	26310
D6	GHODAHADA	SUNDHIPALLI SAND SOURCE , SUNDHIPALLI,Khata No-545(AAA), Plot No- 389, Kissam- Nadi (Longitude-84°33'1.80" Latitude-19°24'43.56") to (Longitude-84°33'12.96" Latitude-19°24'54.36")	-	-
D7	GHODAHADA	KHOLADI SAND SOURCE , KHOLADI,Khata No-337 (AAA), Plot No- 910, Kissam- Nadi (Longitude-84°33'5.90" Latitude-19°25'11.10") to (Longitude-84°32'0.50"Latitude-19°25'7.20")	-	-
D8	GHODAHADA	KARAKHANDI, GHODAHADA, KANAKARADA, Khata No-786, Plot No- 4011, Kissam- Nadi (Longitude-84°40'24.24" Latitude-19°26'29.04") to (Longitude-84°40'39.00"Latitude-19°27'4.68")	-	-
D9	GHODAHADA	DHARMARAYPUR SAND SOURCE , DHARMARAYAPUR,Khata No-458, Plot No-2110,2112,1899 & 2092(1.280, 4.451, 3.095 & 4.939), Kissam- Nadi (Longitude-84°36'3.57" Latitude-19°27'20.79") to (Longitude-84°36'4.70"Latitude-19°27'22.59")	-	-
D10	GHODAHADA	AMBAGAM SAND SOURCE , AMBAGAM,Khata No-217(AAA), Plot No- 1,461 & 199/1152, (3.375, 2.262 & 5.645)Kissam- Nadi (Longitude-84°31'57.00" Latitude-19°25'0.84") to (Longitude-84°32'24.72"Latitude-19°25'12.72")	-	-
CHHATRAPUR SUB DIVISION				
E1	RUSHIKULYA	HANSAPUR At-HANSAPUR, Khata No-503, Plot No-1764/2119, 276/2123, 1764/2121 & 03/2118 Kissam- Nadi (Longitude-84°59'55.2" Latitude-19°24'49.0") to (Longitude-85°00'49.9" Latitude-19°25'40.9")	-	-
E2	RUSHIKULYA	POTLAMPUR At-POTLAMPUR, Khata No-282, Plot No- 279/1054, Kissam- Nadi (Longitude-84°59'34.01" Latitude-19°26'18.08") to (Longitude-84°59'36.3" Latitude-19°26'20.6")	-	-

E3	RUSHIKULYA	BARANGA AT-BARANGA, Khata No-463, Plot No-962/1943, Kissam- Nadi (Longitute-84°58'9.07" Lattitute-19°26'46.8") to (Longitute-84°58'14.8" Lattitute-19°26'47.0")	-	-
E4	RUSHIKULYA	BADAMADHAPUR Vill-BADAMADHAPUR Khata No-1399, Plot No- 909/7520, Kissam- Nadi (Longitute-84°58'9.06" Lattitute-19°27'41.6") to (Longitute-84°58'07.5" Lattitute-19°27'47.8")	-	-
F1	RUSHIKULYA	ALLIABAD Vill-ALLIABAD Khata No-610, Plot No-328/1310 , Kissam- Nadi (Longitute-85°01'48.65" Lattitute-19°23'36.40") to (Longitute-85°01'56.55" Lattitute-19°23'45.03")	5.058	68440
F2	RUSHIKULYA	SRIBANA AT-SRIBANA, Khata No-175, Plot No-427, Kissam- Nadi (Longitute-85°0'44.06" Lattitute-19°24'57.03") to (Longitute-85°00'58.44" Lattitute-19°25'11.26")	6.88	119820
F3	RUSHIKULYA	BAHALPUR AT-BAHALPUR, Khata No-356, Plot No-946/1250, Kissam- Nadi (Longitute-85°00'26.65" Lattitute-19°25'14.16") to (Longitute-85°00'41.34" Lattitute-19°25'22.26")	5.058	85840
F4	RUSHIKULYA	SRIBANABATIMALA AT-SRIBANABATIMALA, Khata No-873, Plot No- 554/2950, Kissam- Nadi (Longitute-85°01'34.84" Lattitute-19°24'49.38") to (Longitute-85°01'26.27" Lattitute-19°24'40.43")	5.261	66540
F5	RUSHIKULYA	DAMODARPUR SAND QUARRY, AT-DAMODARPUR, KHATA NO-189, PLOT NO-262, KISSAM- NADI	-	-
F6	RUSHIKULYA	BAJRAKOTE-1 SAND QUARRY, AT- BAJRAKOTE, KHATA NO-38, PLOT NO-9, KISSAM- NADI	-	-
F7	RUSHIKULYA	BAJRAKOTE-2 SAND QUARRY, AT- BAJRAKOTE, KHATA NO-38, PLOT NO-197, KISSAM- NADI	-	-
F8	Rushykulya	BARAPALLI SAND QUARRY, AT- BARAPALLI, KHATA NO-569, PLOT NO-1715 & 1716 , KISSAM- NADI	--	-
G1	RUSHIKULYA	LONG TERM LEASE OF SAND BED,KHARIDA, AT-KHARIDA, KHATA NO-554, PLOT NO- 4553/1 & 4532/1, KISSAM- NADI (LONGITUTE-84°46'35.82" LATTITUTE-19°29'48.79") TO (LONGITUTE-84°46'43.72" LATTITUTE-19°30'00.70")	-	-
H1	RUSHIKULYA	BURUTULU SAND BED, AT- BURUTULU, KHATA NO-186, PLOT NO-901, KISSAM- NADI LAT- 19.506 LONG-84.834	-	-
H2	RUSHIKULYA	BALIA SAND, AT- BALIA, KHATA NO-1054 & 786, PLOT NO-2605 & 1 , KISSAM- NADI LAT-19.493 LONG-84.952	-	-
H3	RUSHIKULYA	KANAKA SAND BED, AT-KANAKA, KHATA NO-472, PLOT NO- 865, 865/1012 & 785/1013, KISSAM- NADI(LONGITUTE-84°51'9.09" LATTITUTE-19°30'22.23") TO (LONGITUTE-84°51'10.73" LATTITUTE-19°30'15.84")	31.211	347575
H4	RUSHIKULYA	BHIMPUR SAND BED, AT- BHIMPUR, KHATA NO-640, PLOT NO- 1320, KISSAM- NADI(LONGITUTE-84°50'59.00" LATTITUTE-19°30'22.67") TO (LONGITUTE-84°50'59.00" LATTITUTE-19°30'17.07")	4.219	77845
BHANJANAGAR SUB DIVISION				
I1	Barha River	DHANJIA SAND BED Mouza-Dhanjia ,Khata-851, Plot-531, 522 , Kissam-, Lat-19°42'30.1"- 19°42'39.3", Long-84°40'50.0"- 84°40'59.2"	-	-

I2	Barha River	BANGARADA SAND BED Mouza-Bangarada ,Khata-1429, Plot-3842 , Kissam-, Lat-19°45'49.8"-19°46'03.30", Long-84°39'37.7" - 84°39'48.4"	-	-
I3	Barha River	GAHANGU SAND BED MOUZA-Bangarada ,Khata-1254, Plot-1 , Kissam-, Lat-18°49'33.49"-18°49'25.46", Long-84°10'07.38"-84°10'00.28"	-	-
I4	Barha River	JAGADALPUR SAND BED Mouza-Bangarada ,Khata-466, Plot-337,194 , Kissam-, Lat-19°40'27.25"- 19°40'43.78", Long-84°39'15.40"-84°39'22.42"	-	-
I5	Barha River	NARASINGAPALLI SAND BedMouza-Bangarada ,Khata-109, Plot-1 , Kissam-, Lat-19°35'56.13"-19°36'15.06", Long-84°40'39/79"- 84°40'47.56"	-	-
I6	Rushikulya River	MANGALAPUR SAND BED Mouza-Bangarada ,Khata-1522, Plot-3025,3348 , Kissam-, Lat-19°37'50.9"- 19°37'57.4", Long-84°36'48.0"-84°36'59.5"	-	-
J1	Barha River	BISHNUCHAKRA SAND BEDMouza-Bishnuchakra ,khata-913, Plot- 4045,kissam-,Lat-19°45'38.37"-19°45'45.95", Long-84°45'58.18"- 84°40'05.05"	--	-
K1	Barha River	BHEREDA SAND BED Mouza-Bhereda ,khata-360, Plot-315, 662/P,kissam-,Lat-19°56'10.28"-19°56'43.87Long- 84°36'24.65"- 84°36'49.93"	-	-
K2	Barha River	BARUDA SAND BED Mouza-Baruda ,khata-723,, Plot-1617/A,kissam-Lat-19°59'28,50"-19°59'39.13"Long- 84°37'47.14"- 84°37'55.36"	-	-
K3	Lohorkhandi River	BADAKODANDA-I SAND BED Mouza-Badakodanda ,khata-1430 ,, Plot-3625/A,kissam-Lat-Long-19°56'21.53"- 19°56'25.93" 87°33'56.62"-84°34'10.75"	-	-
K4	Lohorkhandi River	Gamundi Sand Bed Mouza- ,khata-999,339,kissam-, Plot-203/A,703/A,Lat-19°55'05.96"- 91°55'20.70", Long- 84°35'19.52"-84°35'39.17"	-	-
K5	Lohorkhandi River	Badakodanda- II Sand Bed Mouza-Badakodanda ,khata-1430, Plot-1991, kissam-,Lat-Long-84°32'19.15"- 84°32'58.07"	-	-
L1	Barha River	Nuagam Sand Bed AT-Nuagam, Khata No-969, Plot No- 125,292,291, Kissam- Nadi Lat-19.924, Long-84.602	-	-
L2	Barha River	Benipali Sand Bed Mouza-Benipalli ,khata-859, Plot-210,211,kissam-, Lat-20°50'35.11"-20°51'00.95", Long- 84°37'29.19"- 84°37'35.73"	--	-
L3	Barha River	Banka Sand Bed Mouza-Banka ,khata-852, Plot-2047,kissam-, Lat-19°49'30.60" - 19°49'44.77", Long- 84°37'28.13"- 84°37'35.28"	-	-
L4	Barha River	Suramani Sand Bed Mouza- Suramani,khata-232,Plot-659, 1/1725,kissam-, Lat- 19°48'35.62"-19°48'57.34"Long- 84°37'47.25"- 84°37'54.87"	-	-
L5	Barha River	Girisola Sand Bed Mouza- Girisola,khata-970, Plot-1,kissam-, Lat-19°50'23.10"- 19°50'45.20", Long- 84°37'32.80"- 84°37'44.70"	-	-
L6	Barha River	Kokolunda Sand Bed Mouza-Kokolunda ,khata-483, Plot-2141/2158,kissam-, Lat-19°50'23.10"-19°50'45.20"Long- 84°38'50.14"- 84°29'02.28"	-	-
L7	Barha River	Ambapua Sand Bed Mouza-Ambapua ,khata-694, Plot-71/2179, 71, 1289,kissam-, Lat-19°42'31.39"- 19°51'48.82", Long- 84°38'23.25"-84°39'19.60"	-	-
M1	Barha River	Kandarasing Sand Bed Mouza-Kandarasing ,khata-567, Plot-3222,3112,3119,2794,2268 ,kissam-, Lat-19°54'16.19"- 19°54'36.46", Long-84°43'18.57"- 84°43'42.15"	-	-

M2	Barha River	Sorisamuli Sand Bed Mouza-Sorisamuli ,khata-283, Plot-973,kissam-, Lat-19°53'16.80"-19°53'28.28" Long- 84°41'56.93"- 84°42'12.65"	--	-
M3	Barha River	Tentulia Sand Bed Mouza-Tentulia ,khata-344, Plot-2043,kissam-, Lat-19°53'49.48"-19°53'58.58"Long- 84°42'39.82"- 84°42'46.16"	-	-
M4	Barha River	Nimapadar Sand Bed Mouza-Nimapadara,khata-1472, Plot-744,kissam-, Lat-19°52'55.46"- 19°53'3.12", Long- 84°41'13.46"-84°41'29.60"	-	-
N1	Rushikulya River	Santoshpur Sand bed Mouza- Santoshpur,khata-417, Plot-45,kissam-, Lat-19°32'01.85"- 19°32'01.86", Long-84°44'01.99"- 84°44'13.94"	-	-
N2	Rushikulya River	Pakidi Sand bed Mouza-Pakidi ,khata-507, Plot-1,kissam-, Lat-19°33'08.55" - 19°33'31.43" Long-84°42'09.61"-84°42'25.91"	-	-
O1	Rushikulya River	G.P. Sasan Sand Bed Mouza- G.P. Sasan,khata-271, Plot-1501,kissam-, Lat-19°45'25.92"-19°45'35.17", Long- 84°27'03.73"- 84°27'17.06"	-	-
P1	Rushikulya River	Kapilash Sand Bed Mouza-Kapilash ,khata-201, Plot-391,kissam-, Lat-19°38'52.41"- 19°29'11.89", Long- 84°35'22.36"- 84°35'37.34"	-	-
P2	Rushikulya River	Pankalbadi - B Sand Bed Mouza-Pankalabadi ,khata-319, Plot-1837,2231,kissam-, Lat-19°36'23.47"- 19°36'27.53", Long- 84°38'20.24"-84°38'38.68"	-	-
P3	Rushikulya River	Laxmipur Sand Bed Mouza-Laxmipur ,khata-189, Plot-302, 580(P),kissam-, Lat-19°37'06.32"-19°37'23.04"Long- 84°37'13.58"-84°37'20.96"	-	-
P4	Rushikulya River	Jahada Sand Bed Mouza- Jahada,khata-861, Plot-5680 ,5681,kissam-, Lat-19°40'41.98"-19°40'51.90", Long- 84°33'37.19"- 84°33'53.23"	-	-

07. GENERAL PROFILE OF THE DISTRICT.

a. Geographical position: Longitude -84.7 to 85.12 degree East
Latitude- 19.4 to 20.17 degree North

b. Area & Population: -

The district has an area of 8070.60 sq.kms and 35.29 lakhs of population as per 2011 census. The density of population of the district is 429 per sq. kms against 270 person per sq.km of the state. It has 3227 villages covering 11 blocks, 23 Tahasils and 3 Subdivisions. As per 2011 census the schedule caste population is 6.88 lakhs (19.5%) and schedule tribe population 1.18 lakhs (3.37%). The literacy percentage of the district covers 62.62 against 72.9 of the state.

c. Climate: -

The climate condition of the district is generally hot with high humidity during April to May and cold during December to January. The monsoon generally breaks during the month of June. Annual rainfall of the district was 1109.68 mm in 2018-19 which is less than the normal rainfall (1444 mm).

d. Economy:

The economy of the Ganjam District is supported by both industry and agriculture. The District is well known for its food grain production and its export. The agricultural sector supplies about 75 percent of the total workforce of the Ganjam District. The animal husbandry also adds economical support to the District. There is a considerable section of people who are living on animal rearing. The share of industries in the economic development of Ganjam District is also important. Ganjam District has stored a variety of economically important minerals like limestone, soapstone, China clay, fireclay, graphite, granite and quartz.

Agriculture forms the backbone of the District's economy, with more than 70 Percent of the population being dependent on it. The district has alluvial soil at the eastern part (coastal region) and late rite soil on the west (hilly table land) with small patches of black cotton soil at the centre and in the north east close to Chilika. This helps in obtaining a substantial agricultural yield. Availability of mineral resources and forest resources also contributes to the District's economy.

Abrasives and grinding materials, lime stone (kankar), manganese, monazite, sand and talc are some of the chief economic minerals found in the District. Black granite stones are abundantly available in the District, sustaining the stone crushing and stone polishing units. Matikhala mines, operated by Indian Rare Earths Limited (IRE) is one mine in the District that exploits sand deposits containing monazite, zircon and rutile illuminite.

The forests of the District provide a wide range of raw materials contributing to its economic growth. Timber, bamboo, tamarind, mahua, resin, kendu leaves, siali leaves, sal leaves, neem and karanja seeds are the main forest products. As regards livestock resources, the rich live stock population of the District contributes in its own way to the District's economic development. This District fulfills the major portion of the total lime needs of the state, with the rich resource of lime shells that its long coast line offers. Ganjam and Humma area and the area near the mouth of river Bahuda and Rushikulya are the rich sources of salt production, catering not only to the needs of the District but also of the state. There are a number of industries functioning in the District. The District also has three industrial estates, located at Brahmapur, Bhanjanagar and Chatrapur respectively.

Most of the educated youths of poor households are migrating to various cities of Gujarat, India for breadwinning. It covers a major migrated population of Ganjam District and affects the district economy significantly.

e. Industry:

The contribution of the mineral to the economy of the district is insignificant. A huge amount of minerals are available in the district such as granite, limestone, soap stone, fire clay, china clay, quartz manganese etc. Basing on the above resources and infrastructure large number of SSI and large and medium scale unit are coming up through out the district. So far only one mine at Matikhalo is being operated by Indian Rare Earth Limited (IREL) to exploit sand deposits containing monazite, zircon, rutile, illuminite etc. The IREL is established in the year 1984 at Arjyapalli. It is also going to establish a thorium, monazite processing unit and titanium pigment in near future. However, the mining activities of the district has been discussed in previous paragraph of the report.

Similarly, another large scale unit i.e. M/s. Jayashree Chemicals Pvt. Ltd. (Now M/s. Grasim Industry Ltd.) was established in the year 1962 which started production in 1967 and it producing caustic soda, chlorine and Hydrochloric acid and sulphur dioxide Gas. Similarly. 2 medium scale enterprises namely M/s. Sudhakar PVC products Pvt. Ltd. and M/s. United Spirits Ltd. at Pitapalli under Chikiti Tahasil and Narayanpur under Konisi Tahasils are existing respectively. Apart from these. different industrial units will come up in the TATA Steel SEZ Ltd. relating to food and beverage. chemical and chemical product, fabrication metal product, electrical and electronics, construction and mineral products etc.

f. Demography: -

description	Value
Area	8070.60 sq.km
No. of Sub-Division	3
No. of Block	11
No. of Police Station	35
No. of Tahasils	23
No. of Gram Panchayats	503
No. of ULBs	18
No. of Revenue Villages	3227

g. Culture & Heritage:

Ganjam District celebrates many festivals round the year. Dola Yatra, Tara Tarini Mela, Thakurani Yatra, Durga Puja, Shiv Ratri, Ratha Yatra, Makar Sankranti, Manabasa Gurubara and Danda Yatra are the famous festivals being celebrated in the District with great enthusiasm. Ganjam District is full of many tourist spots that are visited by a large number of tourists every year like Arjyapalli, Athagadapatna, Balkumari, Brahmapur, Bhairabi (Mantridi), Bhetanai, Biranchi Narayan, Budhakhol- Buguda, Chilika (Rambha), Girisola, Gopalpur sea beach, Taratarini etc.

h. Transport & Communication: -

The District is well connected by roads, rail, air and water ways. Most of the villages and towns are connected through motorable good roads. The district is served by roads of different categories like National Highways. State Highways. Major District Roads. Other District Roads and classified village roads, the length of each type of roads in the district upto the year 2014-2015 is given below.

Sl. No.	Category of the Road	Length in km.
1	2	3
1	National highways	396 km
2	State Highways	630Km
3	Major District Roads	270Km
4	Other District Roads	867Km
	TOTAL	2150Km

i. National Highways: -

- N.H. 16 : Puintola near Ganjam to Girisola- 85Kms
N.H. 516 : Connects NH-16 with Gopalpur Port-5.35Kms
N.H. 57 : Connects Bhanjanagar, Aska & Berhampur – 62 Kms
N.H. 326 : Connects Aska, Sheragada & Taptapani-53 Kms
N.H. 59 : Connects Berhampur, Surada & Gajalabadi-191 Kms

ii. National Highways: -

- S.H. 7 : Berhampur to Phulbani – 105 Kms
S.H. 17 : Berhampur, Digapahandi, Gobindapur, Luhagudi & Raipananga-51Kms
S.H. 21 : Nayagada, Jagannath Prasad & Bhanjanagar- 44Kms
S.H. 22 : Berhampur, Tamana, Chikiti, Surangi & Mandarada- 48 Kms
S.H. 26 : Chatrapur, Ganjam-11 Kms
S.H. 29 : Chikit, Digapahandi & Aska
S.H. 30 : Khallikote, Kabisuryanagar, Aska-57 Kms
S.H. 31 : Humma, kabisuryanagar- 39.2 kms , balipadar & Bellaguntha- 54Kms
S.H. 32 : Jagannathpur & Purushottampur- 24.7Kms
S.H. 33 : Balipadar, Korasingi-32.6Kms
S.H. 36 : Badasnkha, Tarini, Hinjilicut, Sheragada & Surada- 96Kms
S.H. 37 : Bhanjanagar, Tilisingi, Tarasingi & Dasapalla- 48 Kms

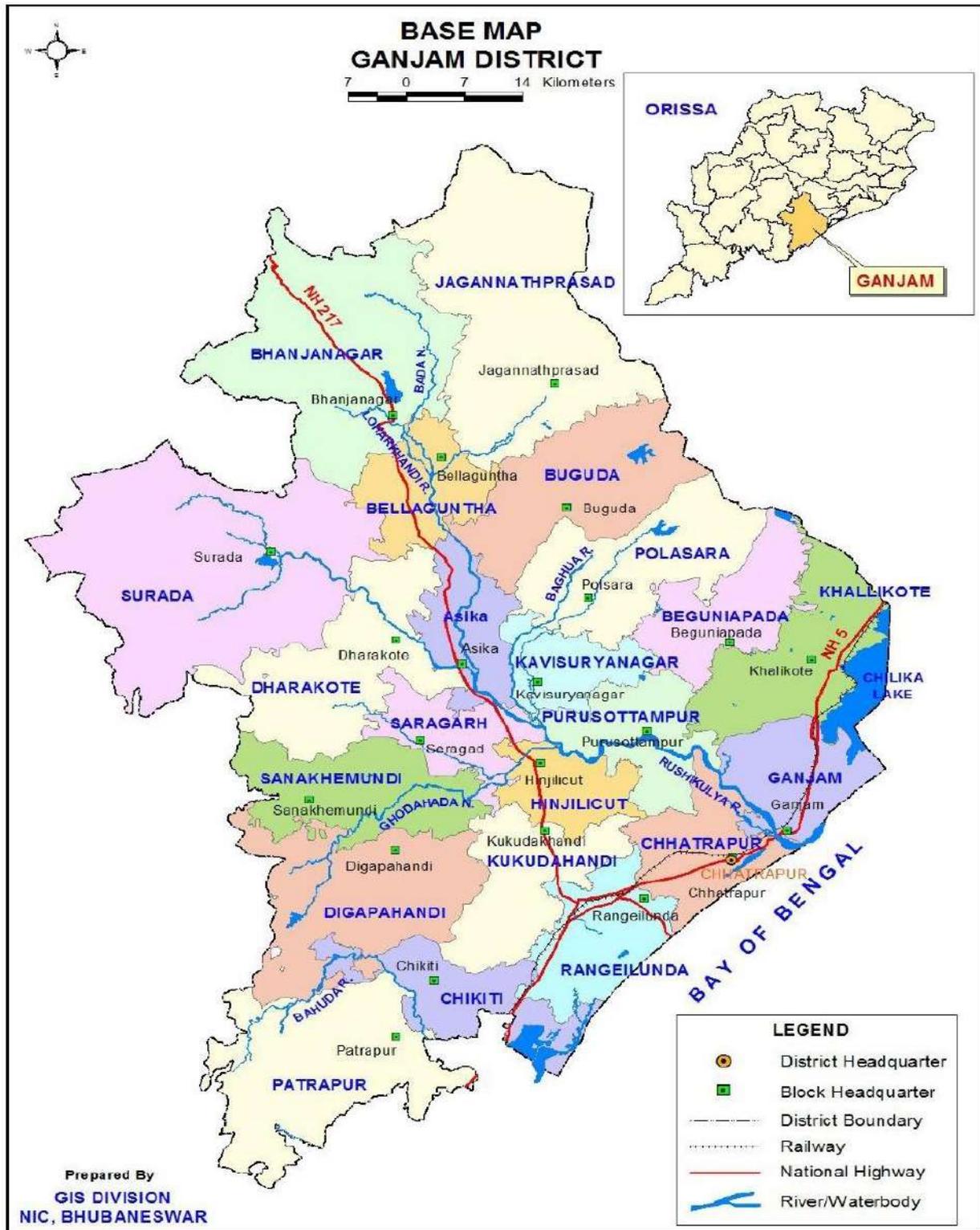
Apart from these NHs & SHs, Measure District Road No. 18,62,65,71,72,95,96,97 are connecting nooks, and corners of the District & gives a good connectivity.

Rail Link:-

The East Coast railways passes through the district of Ganjam. It enters in Khallikote Station in the North and Surala Road Station in the South. The total Railway route length is 79Kms. Further a rail line also connects the mainline of east Coast railways with IREL (India) Ltd., Matikhola as well as Gopalpur port.

INDEX MAP

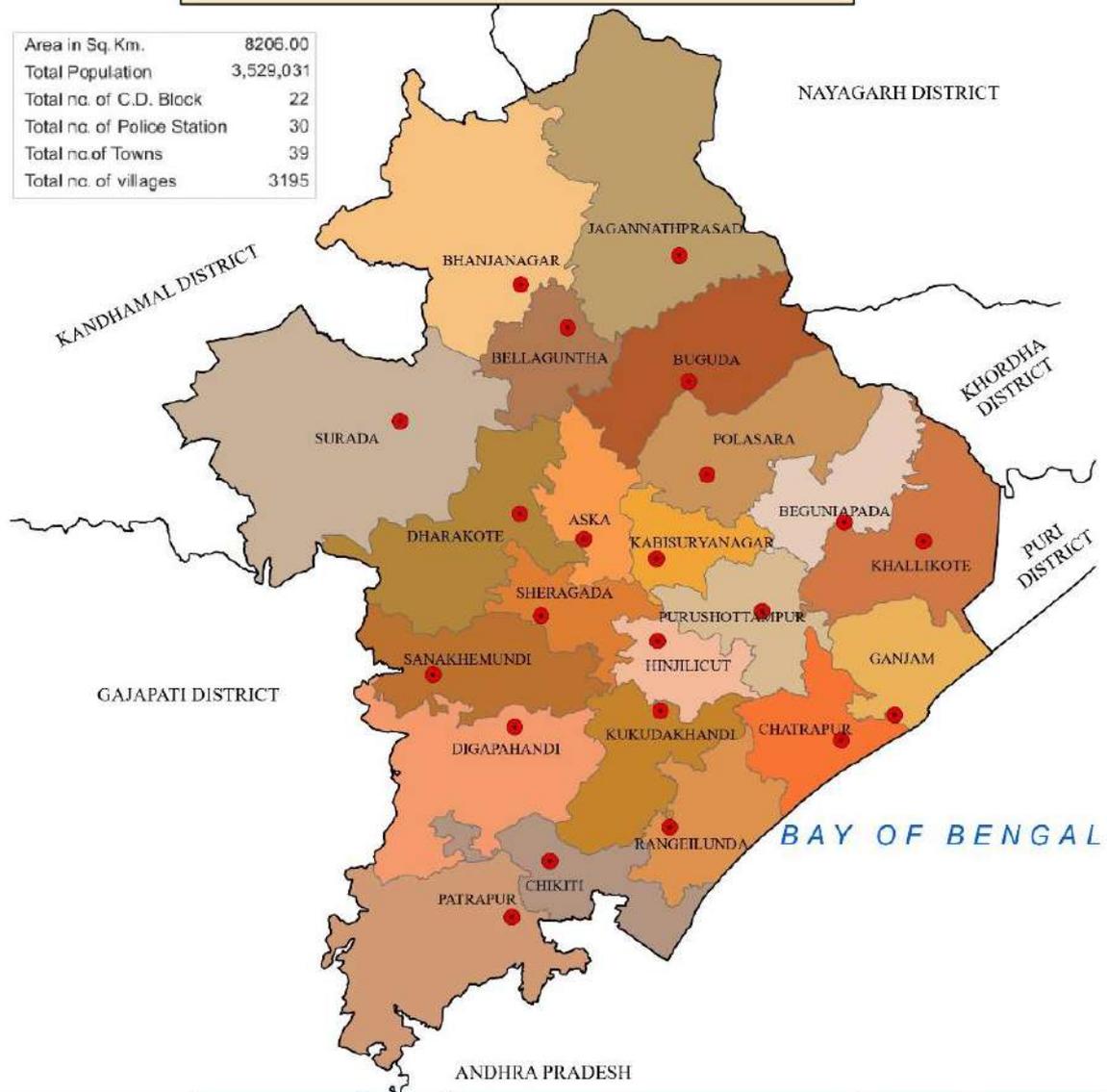






BLOCK MAP DISTRICT : GANJAM

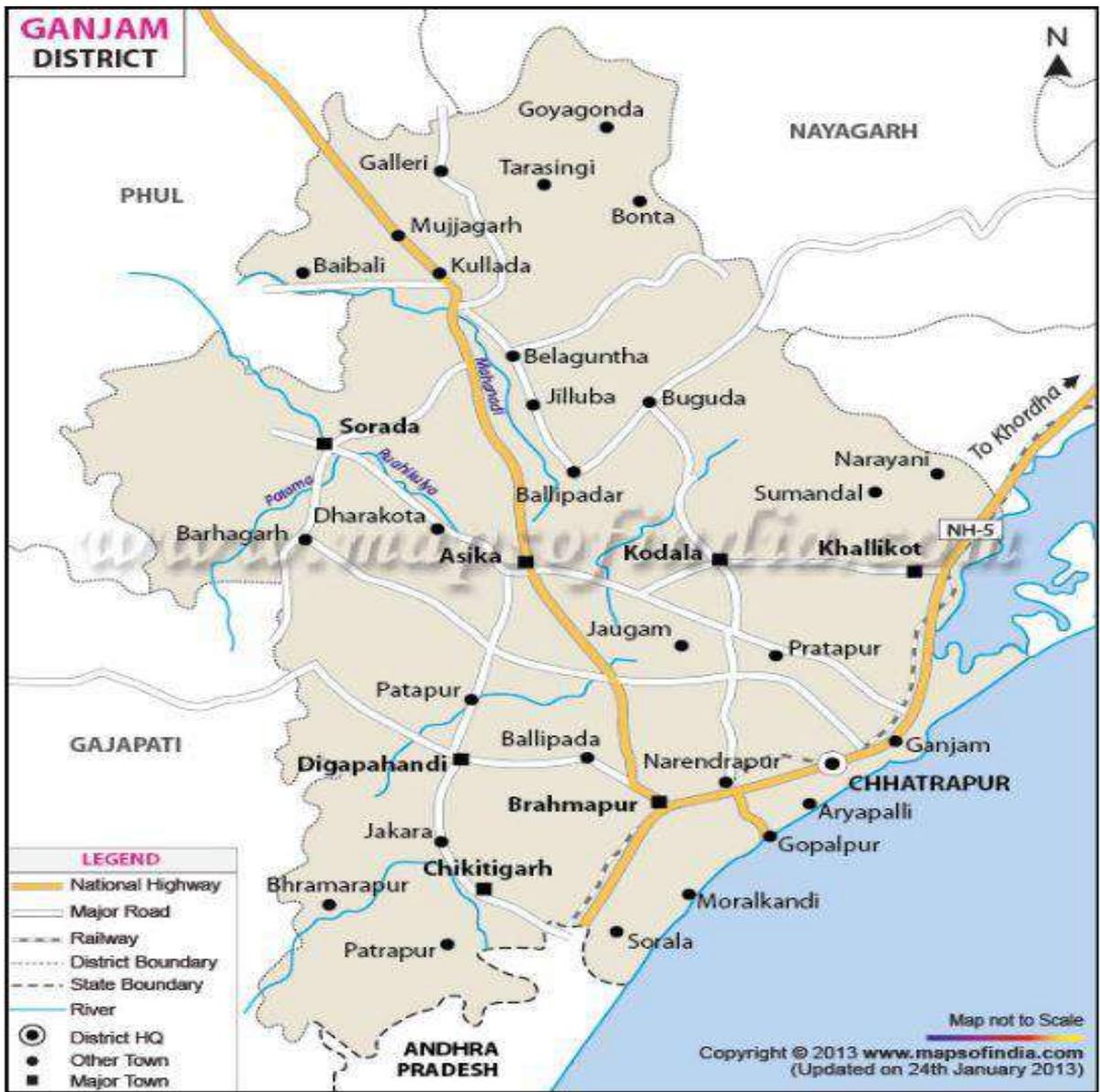
Area in Sq. Km.	8206.00
Total Population	3,529,031
Total no. of C.D. Block	22
Total no. of Police Station	30
Total no. of Towns	39
Total no. of villages	3195



LEGEND

- DISTRICT BOUNDARY
- BLOCK BOUNDARY
- BLOCK HEAD QUARTER

0 2.5 5 10 15 20 Kilometers



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

Agriculture is the main stay of majority of the populace and thus holds the key to socio-economic development of the district. Growth of agricultural sector is important not only for ensuing food security and reduction of poverty in rural areas but also sustaining growth of rest of economy. Growth of two nonfarm sectors viz. secondary and tertiary sectors can be sustained only when the agricultural sector continues to grow and provide adequate demand for goods and services along with market for the farm produce. Share of Agricultural sector (Agriculture, Animal resources, Forestry and Fishery) in the district i.e. gross domestic product (GDP) has been declining over the years. Still this sector continues to be vital for the district's economy as 80% population of the district draws its sustenance fully or partially from Agriculture sector.

Broadly, physiography of the district can be divided into two distinct parts i.e (a) coastal plains in the east (b) hill and table land in the west. While the former is fertile and close to irrigation sources, the latter is rocky and lacks Irrigation facilities. The plains lie between the Eastern Ghats and the Bay of Bengal but are narrow because of the absence of big rivers. Since the hills are close to sea, the rivers flowing from hills are not very long and are subject to sudden floods. A large area of the district is covered with irregular deposits of laterites at various altitudes. The coastal tracks contain deposits of alluvium and recent alluvium of clay and fine sand. Towards the centre and South it is hilly with beautiful well watered valley. The south eastern portion is fertile. The extreme north east is occupied by a portion of the famous Chilika lake.

The district is covered under two Agro Climatic zones i.e.. (a) East and South Eastern coastal plain zone and (b) North Eastern Ghats zone. The climate of the district coming under the ambit of east and south eastern coastal plain zone is sub tropical, hot and humid where as the climate of the blocks covered by North Eastern Ghats Zone is hot, moist and sub-humid.

Based on variation in topography, soil type, rainfall, irrigation availability and cropping pattern, each Agro Climatic zone has been further divided into several agro ecological situations or farming situations.

The district is coming under two Agro-Climatic zone, namely East and South eastern coastal plain zone and North eastern ghat zone. There are five agro ecological situation exists under East and south eastern Coastal plain zone i.e. Coastal alluvial command, Coastal alluvial non command, Coastal alluvial saline. Rainfed laterite and Rainfed, red and

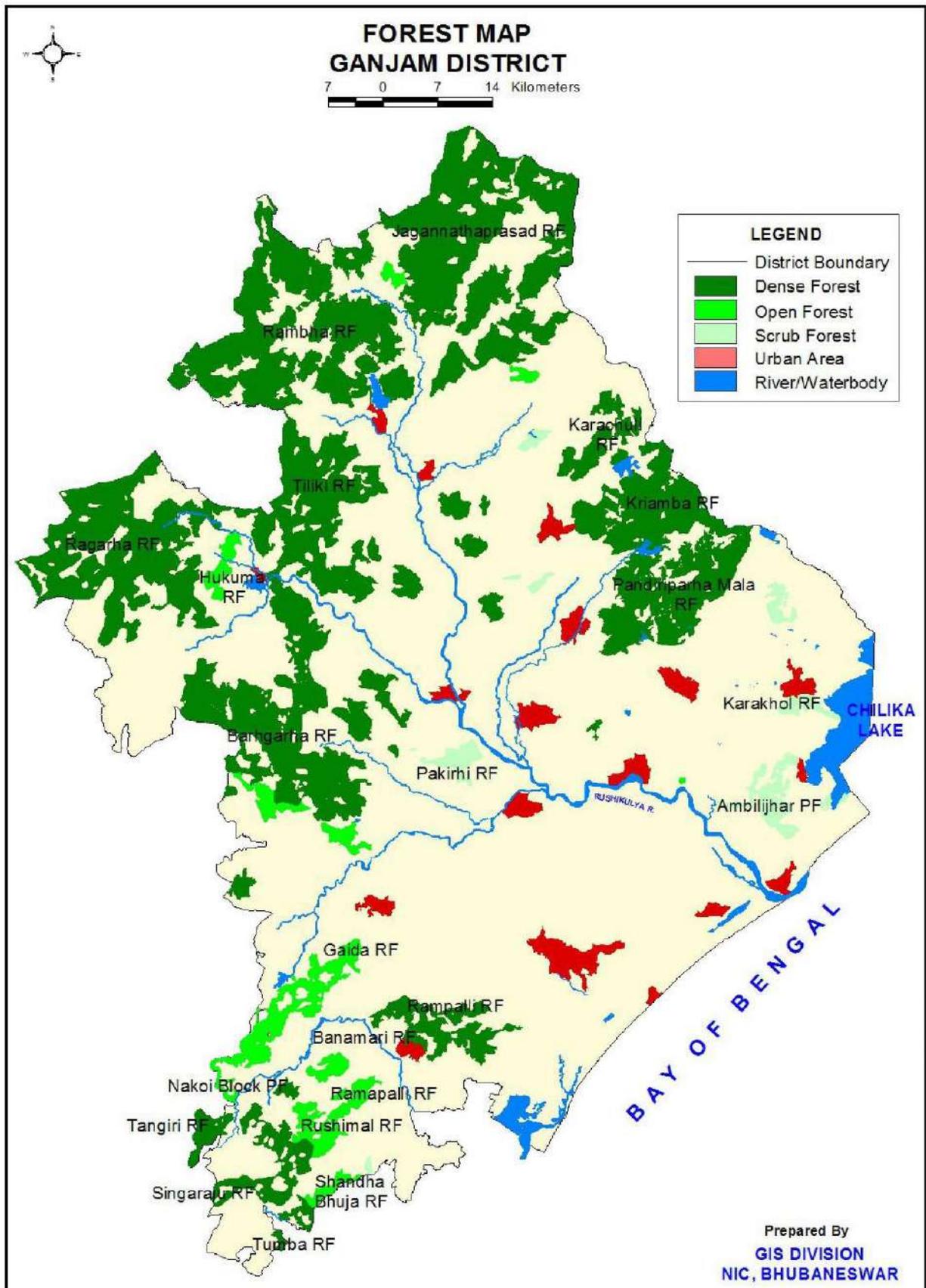
Laterite. Parts of Kabisurya Nagar, Sanakiemundi. Digapahandi, Polasara and whole area of Chikiti, Rangeilunda, Chatrapur, Patrapur Ganjam, Khallikote, Kukudakhnadi, Hinjilicut, Patrapur, and Kodala are coming under East and south eastern coastal plain zone. Similarly, three agro ecological situations exists under North eastern ghat zone. I.e. Medium rainfall block irrigated. Low rainfall alluvial irrigated and Moderate rain laterite soil irrigated. Parts of Kabisurya Nagar. Sanakhemundi, Digapahandi. Polasara block and whole area of Bellagunatha. Aska, Sheragada. Dharakote. J.N. Prasad, Buguda and Sorada are coming under this Agro climatic zone. The District has alluvial soil in the eastern part, red- laterite soil in the west and black cotton soil at the centre. Majority of areas of the district are hilly and undulated with, perennial stream, steep slope.

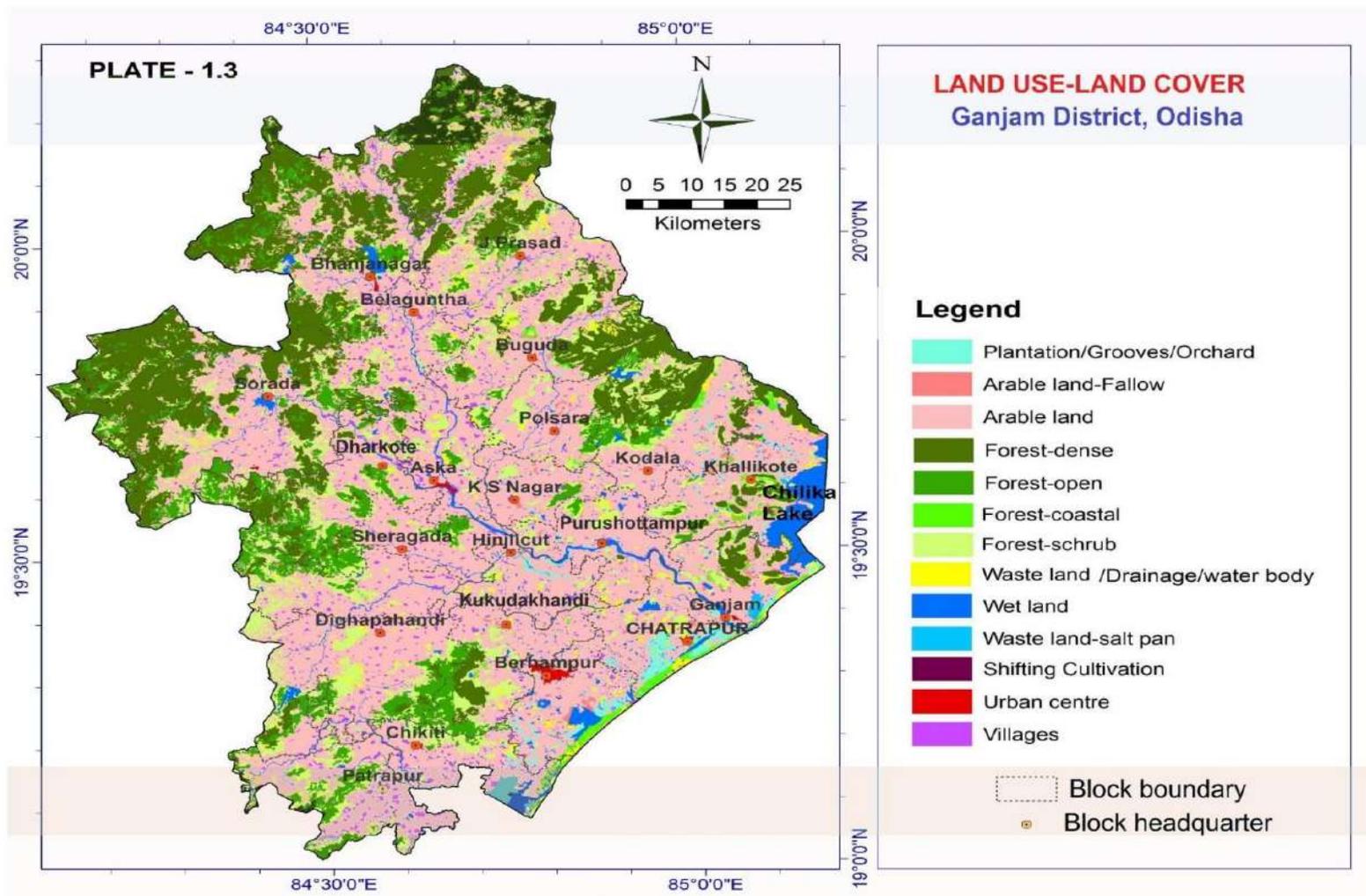
Similarly, the land use pattern for mining activity in the district may be district into two category.

- (i) Land use for mining activity for atomine mineral exploration (Major Mineral) area of 2464.054 Ha.
- (ii) Land used for decoration stone (specified minor mineral) over an area of 469.295 Ha. which includes the mining lease area for working, non working lease and over the area on which Lol has been issued.
- (iii) Land used for minor mineral over an area of 2396.2 Ha. which includes all minor mineral sources, out of which some of the sources have been leased out to the lessees on long term lease and some of these could not be settled due to non participation of interested bidders in the auction process.

The land utilisation pattern of the district is given in the table below.

Sl. No.	Information Particular	Ganjam District (Area In Ha.)
1	Geographical Area(Ha)	821000
2	Forest Area(Ha)	315000
3	Permanent Pasture(Ha)	20000
4	Misc. Trees And Grooves(Ha)	22000
5	Culturable Waste(Ha)	11000
6	Land Put To Non-Agril. Use(Ha)	21000
7	Barren And Uncultivable Waste(Ha)	20000
8	Current Fallow(Ha)	25000
9	Other fallow(Ha)	6000
10	Net Area Sown(Ha)	381000
11	Cultivated Area(Ha)	406000
a	High	190000
b	Medium	113000
c	Low	103000
12	Paddy Area(Ha)	223500
a	High Land	19400
b	Medium Land	101275
c	Low Land	102825
13	Mining(Ha)	5329.549





09. PHYSIOGRAPHY OF THE DISTRICT.

The district of Ganjam is one of the most beautiful districts in the state of Odisha. The Eastern Ghats is running on the western side of the district. Physio graphically the district is divisible into the eastern coastal plains and the western table lands. The north and west frontiers of the district are wild and filled with thick forest. Nearly half of the area is covered with fine sal trees. The centre and south is hilly with beautiful well-watered and fertile valleys running towards the sea. The south-eastern portion is fertile and contains extensive multi-cropped areas, well served by many major and minor irrigation projects. The extreme north east is occupied by a portion of the Chilika Lake. its immediate vicinity being good for fishery and salt manufacture, though not so good for cultivation. The table-land of the western sector of the district is a continuation of the great line of Eastern Ghats mountain range. The northern plateau lies between the hill ranges of Baligudain the north and R. Udayagiri in the south, covering over an area of 2.590 5q.km (1.000 Sq. miles) and containing hills ranging from 609.6 meters (2000) to 1.364.28 meteres (4476') in height. The Mohini or the Kerandi Hills which rise to a height of 762 metres lie at a distance of 12 km. from Brahmapur. Some of the isolated hill locks like Valleri hill range 364 m. and TariniHill 225 m. have religious importance. Since the hills of the district are close to the sea, the rivers flowing from the hills are not very large and so they are subject to the sudden flood. The main rivers of the district are the Rushikulya and Bahuda. Tributaries of these two main rivers are the Ghodahada and BEDanadi. Rushikulya is the largest river in the district being 146 km. long. It originates from Rushimal hills of DaringiBEDI area in Baliguda Sub-Division of Kandhamal district at an elevation of about 1000 meter at North Latitude 19° 59' and East Longitude 84° 13° and flows in a generally south-easterly direction to drain into the Bay of Bengal near Ganjam. The river, which may be called as the life-line of the district, passes through narrow strips of cultivable lands and then emerges into the plains below the South- Eastern railway line. The Dhanel, the Baghua, the BEDanadi in the left and the Jorou. the Ghodahada on the right are the major tributaries. Maximum flood discharge of the river is 3,962 cusecs at the bridge site near Ganjam town prior to November 1990. The river is not navigable except during rains when it may be used for navigation below Aska. However, before introduction of road transport, wood rafts were floated down the river during monsoon period. The river

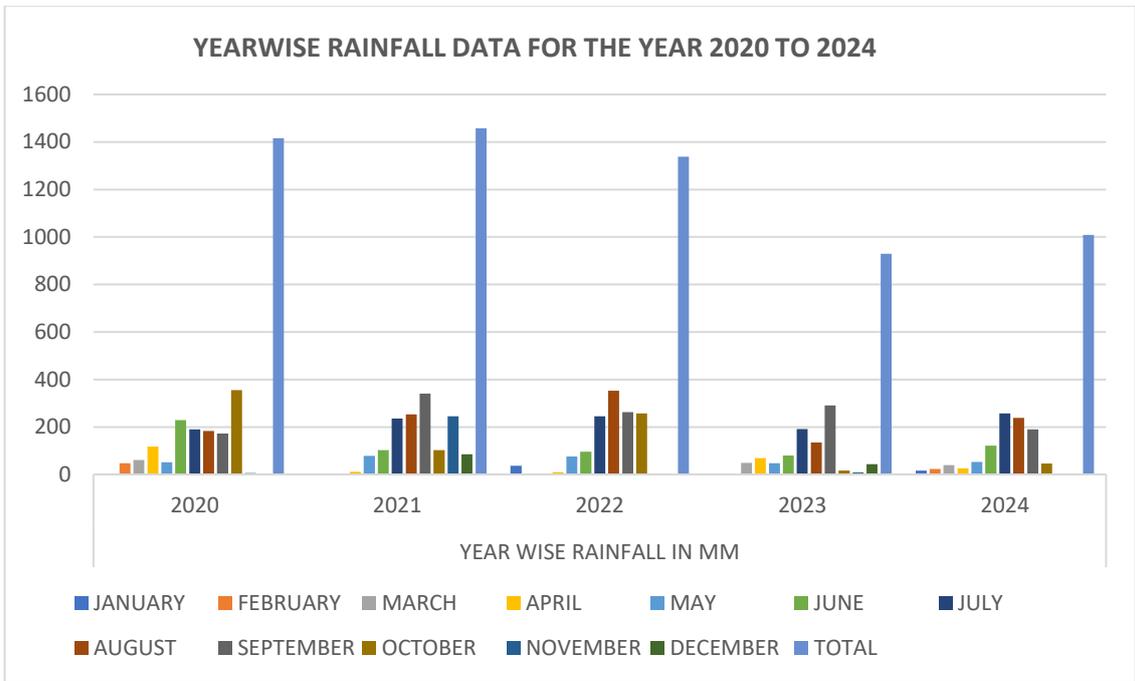
Bahuda rises near Ramagiri village in the district of Ganjam at an elevation of 600 meter at North Latitude 15° 3' and East Longitude 84° 20' and runs first in a north-easterly and then in a south-easterly direction for a total length of 73 km, to join the Bay of Bengal near Sonapur of the district. Similarly some small streams also flowing in the district. Out of six small streams between the BEDanadi and the Rushikulya draining into the Chilika lake the fifth stream (counted from north) rises east of Sumandal village in Ganjam district at an elevation of 100 meter at North Latitude 19° 42' and East Longitude 85 6 and flows for a total length of 10km. The sixth stream rises west of Rambha in the district at an elevation of 100 meter and North Latitude 19 32 and East Longitude 85 3' for a short distance in a generally south-easterly direction and drains into the lake.

A small stream rises south-west of Brahmapur in the district at an elevation of 300 meter at North Latitude 19° 15' and East Longitude 84° 40' and flows for a total distance of 24 km. in a south-easterly direction to join the Bay of Bengal. The Chilika lake belongs to Khordha, Puri and Ganjam districts. It is about 72 km. long (North to South) of which the northern half has a mean breadth of 32 km. while the southern half tapers into an irregularly carved point barely averaging 8 km. in width. It is shallow, seldom exceeding 1.8 metres in depth. The water is brackish. There is very slight tide at the southern end. The sea runs into it at Mankapatna in Puri district. This keeps the lake distinctly salty during the dry months from December to June. The mouth of the lake is being silted up preventing free migration of fish into and out of the lake. During rains the rivers come pouring down upon its northern extremity, the sea water is gradually driven out and its water becomes fresh. The unparalleled scenic beauty of the Chilika has caught the eyes of many poets, philosophers and naturalists from remote past. In the winter season, the lake becomes an abode of birds of different species from every direction of the world, even from the distant Siberia. A Naval Boys Training Centre has been established under the administrative control of the Indian Navy.

10. RAINFALL: MONTH-WISE.

Records of rainfall in the district are made available for 22 Numbers of rain- gauge stations. The average annual rainfall in the district figures at 1295.6 mm. The rainfall generally increases from the coast towards the interior hilly areas of the district. Gopalpur on the coast receives only 1148.6mm. of average rainfall in a year. The south-west monsoon commences in the district by about the second week of June and withdraws early in October. About 80 per cent of the annual rainfall is received during the south-west monsoon season. There is heavy rainfall in the July-August. The variation in the rainfall from year to year is not much. During the first half of this century the highest annual rainfall in the district (amounting to 147 per cent of the normal) occurred in 1919. The lowest annual rainfall was 68 per cent of the normal occurred in 1935. Taking into account the district as a whole there were only three years in which the rainfall was less than 80 % of the normal. Two consecutive years with the rainfall less than 80 5 of the normal occurred at a few stations once in a period of fifty years. On an average there are 65 rainy days a years in the district. A month wise and year wise data of rainfall for last five years is given below.

YEARWISE RAINFALL DATA FOR THE YEAR 2020 TO 2024					
MONTH	YEAR WISE RAINFALL IN MM				
	2020	2021	2022	2023	2024
JANUARY	4.47	2.21	36.96	0	15.99
FEBRUARY	47.86	0.18	2.97	0	23.86
MARCH	60.48	0.46	0	49.24	39.42
APRIL	116.77	11.35	9.95	68.31	25.62
MAY	51.1	78.45	75.48	46.79	52.54
JUNE	229.49	102.85	95.21	79.52	120.88
JULY	189.36	236.02	244.89	191.33	256.67
AUGUST	182.64	252.61	352.11	134.54	238.2
SEPTEMBER	172.94	340.8	262.79	290.48	189.47
OCTOBER	355.2	102.52	257.49	16.64	46.49
NOVEMBER	5.55	245.15	0.62	9	
DECEMBER	0	84.55	0.04	43.09	
TOTAL	1415.86	1457.15	1338.51	928.94	1009.14



11. GEOLOGY AND MINERAL WEALTH.

The rock formations in the district include khondalite, basic pyroxene granulites, amphibolites, porphyroblastic and non-porphyroblastic granite gneiss. garnetiferous granite gneiss, granodiorite, ptynite, pegmatite and quartz veins. Of all those rocks, khondalite suites of rocks are considered to be the oldest from the available field relations. Pyroxene granulite, and its metavariants and granite constitute the charnockite group, the definite or absolute stratigraphic position of which is not yet established. But for the present, they are considered to be younger in age than the khondalite group of rocks.

Geological Formation:

From the available information the following stratigraphical sequence has been arrived at.

(a) Khondalite Group: The khondalite forms a very conspicuous feature of the geology of Ganjam and the khondalite group of rocks consists of quartz-graphite-sillimanite schists and gneisses, quartz-garnet rock, garnetiferous quartzite and calc-silicate rocks. These occur as conformable bands and inclusion within the granite gneiss and hypersthene granite. In length, these may vary from a few meters to several. Quartz-Sillimanite rock with or without graphite is best developed among the khondalite group of rocks: garnetiferous quartzite is the transition between this and quartzite.

Quartz-Sillimanite (+ graphite) rock in hand specimen is fawn to buff coloured. medium to fine grained contains lots of garnet and flakes of graphite, at places garnets are surrounded by clusters of fibrous sillimanite. Quartz garnet rock and garnetiferous quartzite are of same mineralogical composition and vary in colour from grayish to brown. The calc-silicate rocks are white to grey coloured, extremely fine grained and compact and consists of pyroxene, feldspar, scapolite, garnet spene and sometimes spinel. The plagioclase-composition varies from albite to oligoclase. K-feldspar occurs as irregular grains with perthitic intergrowth.

(b) Charnockite Group:-

Charnockite group comprises pyroxene granulite and its metavariants (amphibolites) and hypersthene granulites (Acid charnockite). Pyroxene granulite occurs as bands, lentils and patches within acid charnockite. it is dark coloured, hard and compact equigranular and consists of pyroxene, feldspar, biotite and garnet.

Amphibolite occurs as inclusions within the garnetiferous urafilis gneiss. The rock is dark coloured medium grained with faint schistosity. Amphibole is of dark green variety here and is formed probably from pyroxene by retrogression.

(c) Acid Charnokite (Hypersthene Granulite):-

The rock is medium to fine grained. Light greasy green to greasy grey in colour. hard compact non-fissile, massive. of ferrosillite with spheroidal weathering and sometimes displays a crude foliation. It is composed essentially of hypersthene, plagioclase, orthoclase and sometimes diopside, biotite, garnet, microcline are rare. Apatite and zircon constitute the accessories.

(d) Leptynite:-

Leptynite is medium to coarse grained rock composed of feldspars associated with quartz which are speared and elongated with granoblastic texture. Besides quartz, it contains biotite, garnet, k-feldspar, plagioclase, sillimanite, magnetite. apatite and zircon.

(e) Garnetiferous Granite Gneiss:-

The rock is leucocratic with minor coarse grained, porphyroblastic, with feldspar porphyroblasts garnets evenly distributed and biotite arranged in linear fashion giving a gneissese structure.

(f) Laterite: -

Latorite occurs as capping over granite gneiss and charnockite at many places. It is highly cavernous and ferruginous. The thickness of the laterite profile varies from 3 m. to 15 m.

MINERAL RESOURCES**(g) Clay:-**

Pockets of kaoline derived from the weathering of gneisses have been noticed near Samtarpalli (19° 42': 84° 51°) and Jillinda (19° 42': 84° 57'). The occurrence of clay at Samtarpalli is slightly gritty and is whitish grey in colour. The linear shrinkage is roughly about 12.5 per cent and it turns to yellowish grey.

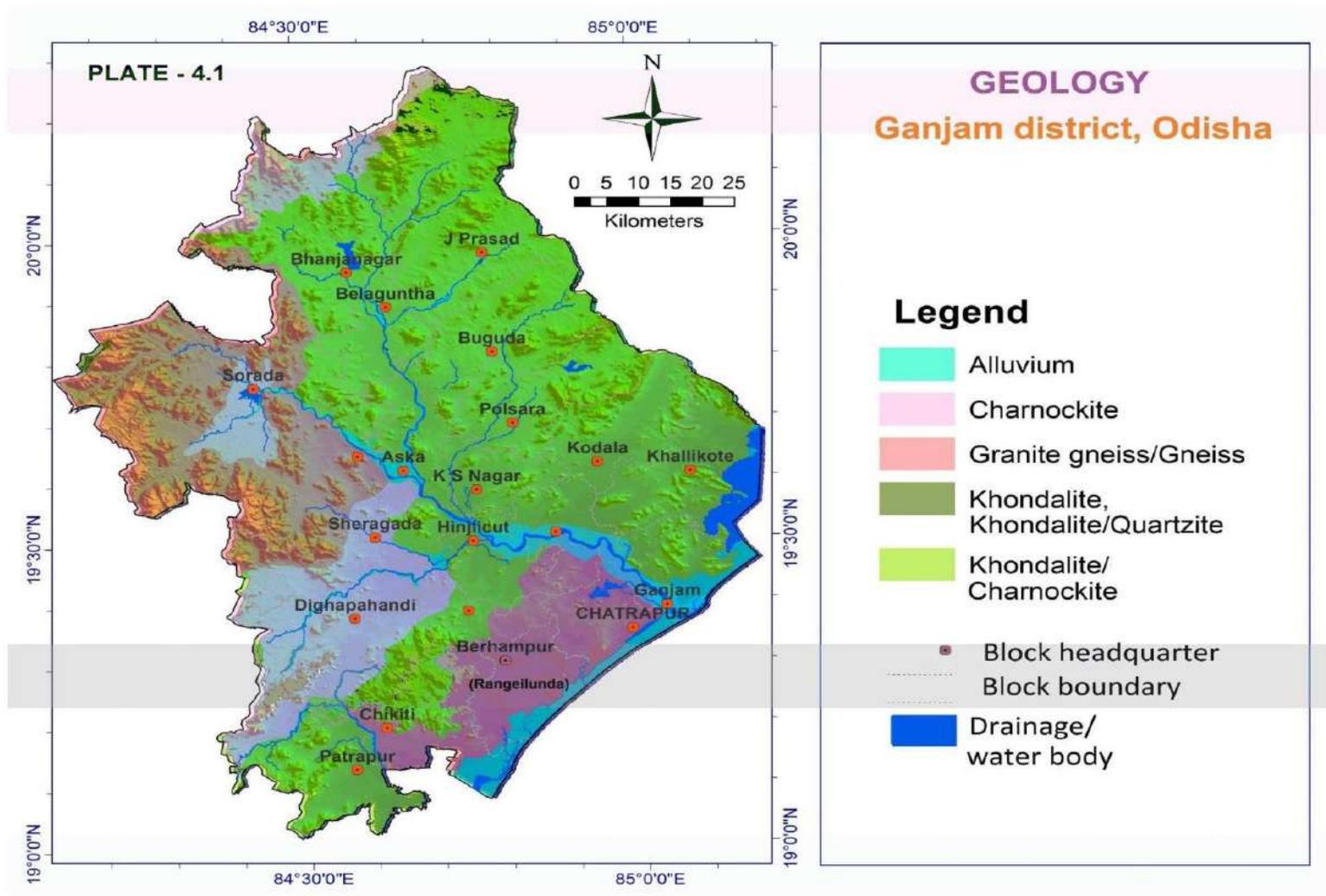
(h) Monazite, Illuminate, etc. (Sand Concentrates)

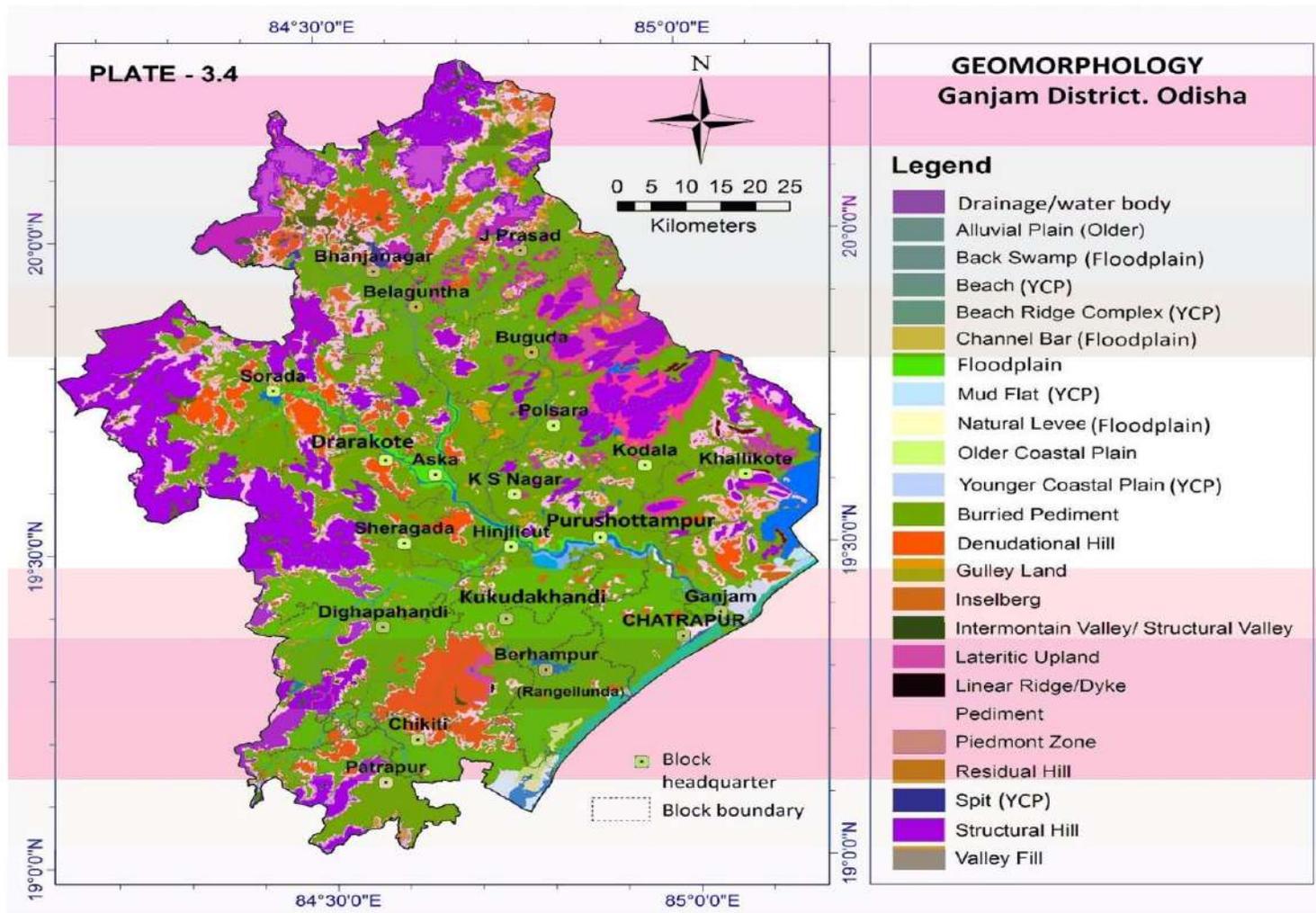
Large numbers of small deposits of natural black sand concentrates consisting of Rutile Monazite, imonite, zircon, sillimanite, garnet and rutile have been reported between the Rushikulya river mouth (Agasthi-Nuagan) to Gopalpur spreading in 2.887.76 hectares. The Indian Rare Earth (I) Ltd.. Matikhalo. Chatrapur (a Central Government PSU) was granted mining lease (Odisha Sands Complex) in March-1979 for a period of 20 years from 21.03.1979 to 20.03.1999 over an area of 2877.760 hectares. Subsequently, the mining lease was renewed for another 20 years from 21.03.1999 to 20.03.2019 over an area of 2464.054 hectares for mining of beach sand minerals and producing minerals Rutile Monazite, Imonite, Zircon, Sillimanite. Garnet and Rutile. Further the lease has been extended upto

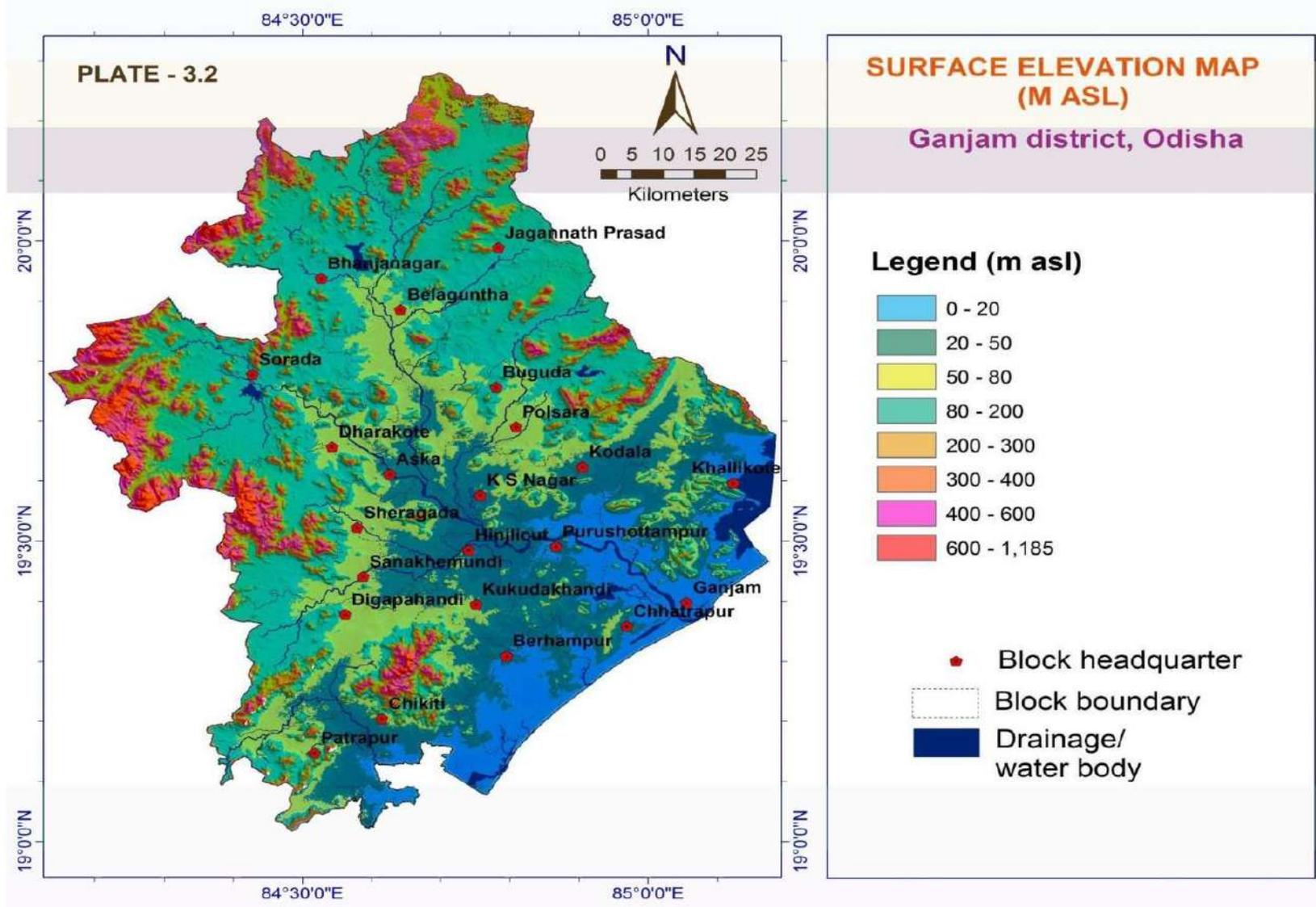
31.03.2047 for beach sand mining of atomic minerals like Rutile Monazite, Imonite, Zircon, Sillimanite, Garnet and Rutile.

Stratigraphy:

Age	Super Group	Group	Lithology
Holocene			Beach sand and sand dunes soil cover
Cenozoic			Laterite
Proterozoic		Migmatite Group	Quartz-vein and pegmatite Anorthite
			Granetiferous Gneiss
Archean to Proterozoic	Eastern Ghat Supergroup	Charnockite	Basic charnockite
			Acidic Charnockite
		Khondalite Group	Kodurite Calc-silicate rock Quartzite
			Quartz-granet-sillimanite Schist







Detail of river/stream/other sand source- Sand mining in the district is confined to three rivers namely Rushikulya, Bahuda , Ghodahada & Lohorkhandi River

- a. Availability of sand or gravel or aggregate resources- sand- 6547894.5 cum, Gravel- Nil, Aggregate- Nil
- b. Detail of existing mining leases of sand and aggregates- For sand pl refer Annexure I. Aggregate- Nil

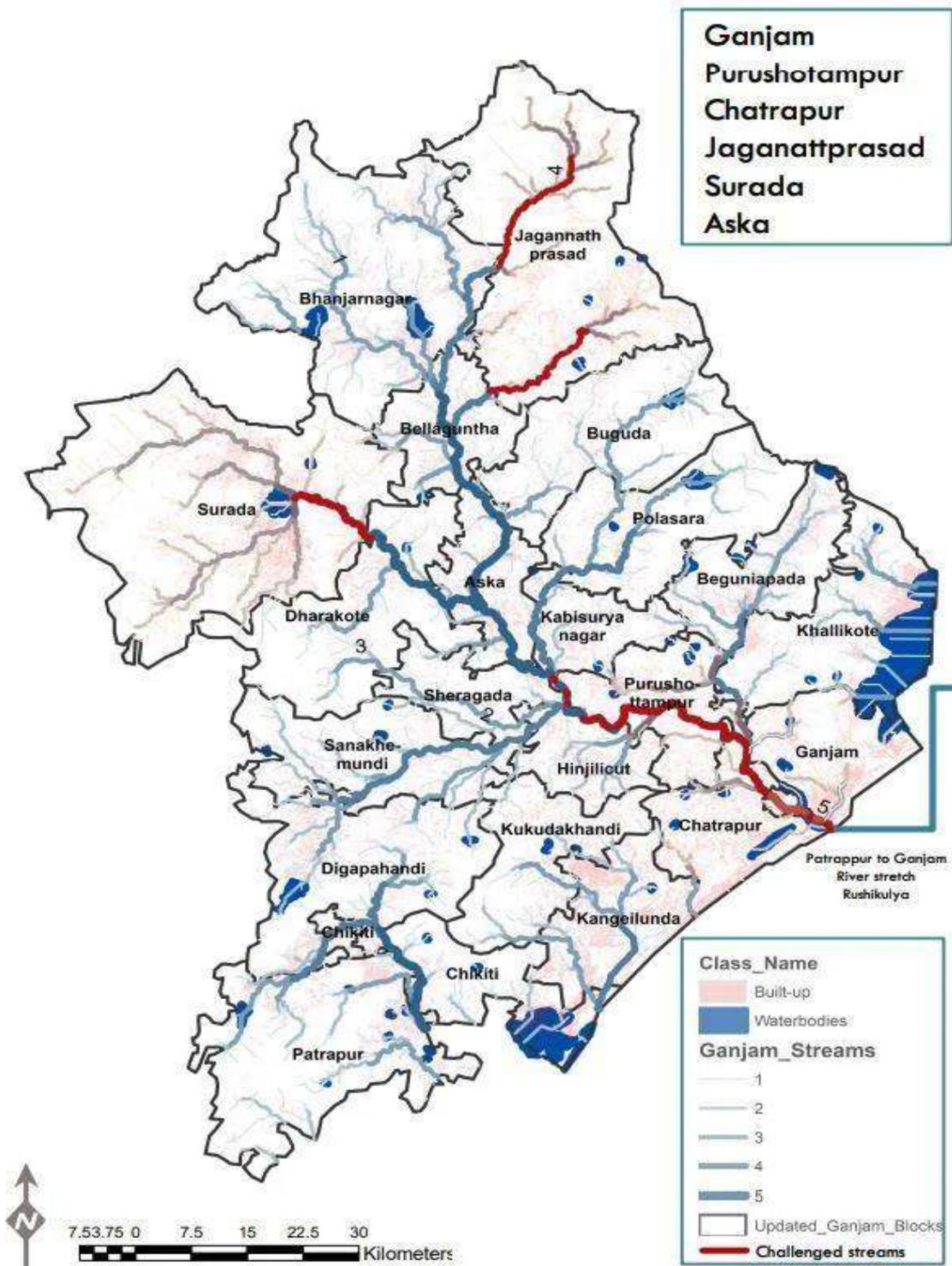
c. Drainage system with description of main river:

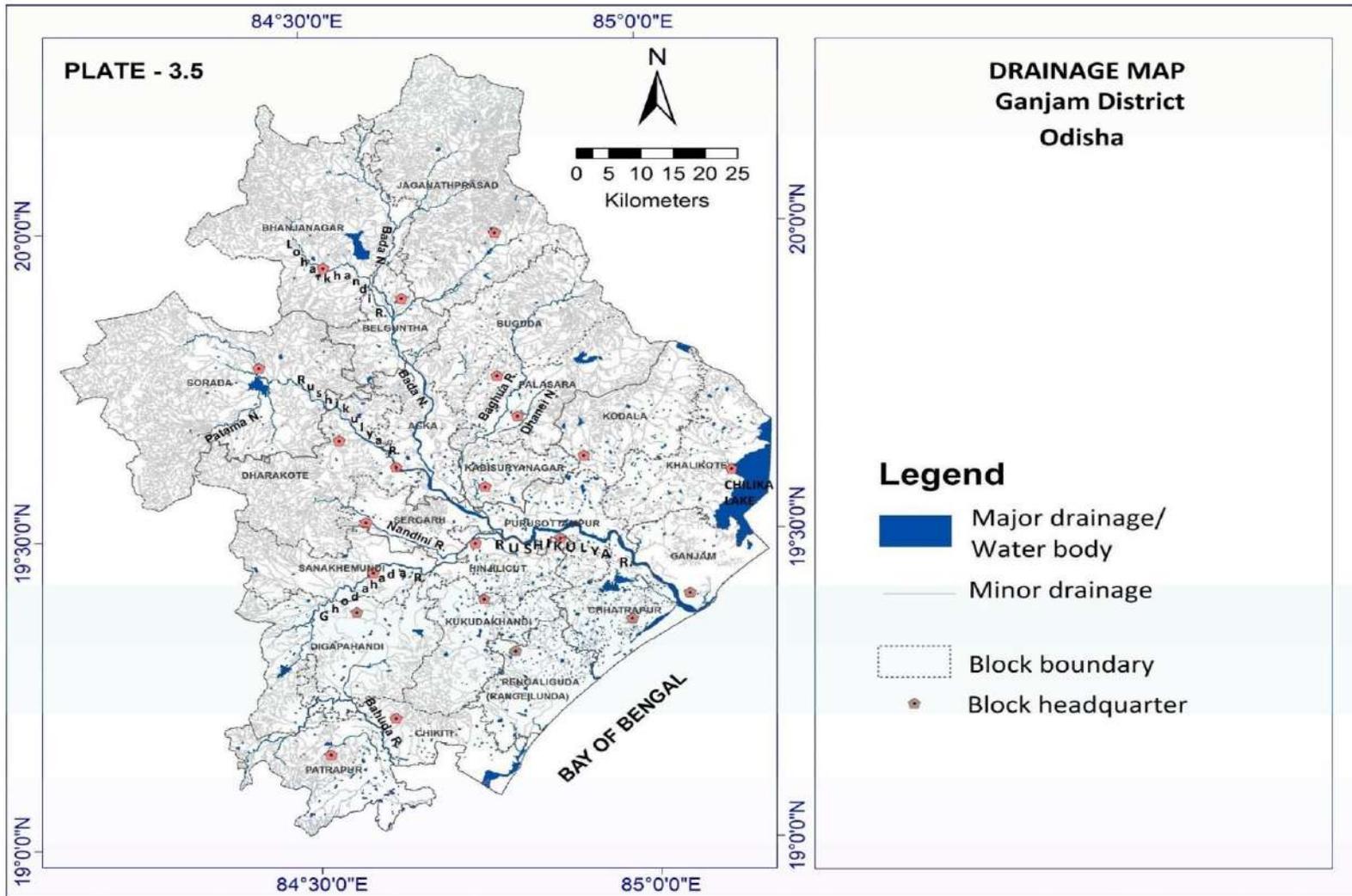
The river Brahmani and its tributaries control the drainage of the district. Brahmani is the second longest river in Odisha and flows through the district in a general eastwest direction. It divides the district into two halves. Initially, the river flows in a northsouth direction, then follows a northwest-southeast course and subsequently changes to northeast-southwest direction. Finally, it changes to a northwestsoutheast course near the eastern border of the district. Most part of the district falls within it's basin. The Brahmani is perennial in nature with a nominal flow during the summer season. It's important tributaries are Ramiala Nadi, Nigre Nadi, Purajhor Nadi etc. The smaller streams show dendritic pattern while the major river and it's tributaries show sub-parallel drainage, indicating structural control.

DRAINAGE SYSTEM WITH DESCRIPTION OF MAIN RIVERS

Sl No.	Name of the River	Place of Origin	Altitude of Origin	Total Length in the District(In Km)	Area Drained (Sq.Km)	% Areas Drained in the District	Process of Deposition of Sediments
1	Ghodahada	Lakhari Valley	800 mtr	62	138.00	100%	Moderate
2	Bahuda	Ramagiri hills, Gajapati	949 mtr	19.13	456.87	100%	Moderate
3	Dhanei	Dhanei Dam, Ganjam	84.58 mtr	39.00	106.00	100%	Moderate
4	Badanadi	Chakapad, Kandhamai	30.00 mtr	129.81	15.58	100%	Moderate
5	Rushikulya	Daringbadi, kandhamai	1000mtr	165.00	41.25	100%	Moderate
6	Baghua	Banchapur, Nayagada	199.0mtr	45.05	4.5	100%	Moderate
7	Sananadi	Kupati, Ganjam	191.0 mtr	12.80	1.792	100%	Moderate
8	Bodanadi	Chakapada	170 mtr	129.81	1.824	100%	Moderate
9	Kokolaba	Rudhapadar, Ganjam	171.0 mtr	27.50	3.575	100%	Moderate
10	Loharakhandi	Andharakoti, Kandhamal	443.0mtr	35.25	1.762	100%	Moderate
11	Nandini	Jali surada, Ganjam	124.0 mtr	21.30	0.639	100%	Moderate

12	Jorou	Govindpur Ganjam	273.0 mtr	08.40	0.504	100%	Moderate
13	Padma	Harabhangi Gajapati	364.81 mtr	45.00	13.50	100%	Moderate





Salient Features of Important Rivers & Streams:

Sl. No.	Name of the River or Stream	Total length in the District (in Km)	Place of origin	Altitude at Origin	Portion of the River or Stream Recommended for Mineral Concession	Length of area recommended for mineral concession(in Km)	Average width of area recommended for mineral concession(in meters)	Area recommended for mineral concession(in Sq. M)	Mineable mineral potential (in Cum) (60% of total mineral potential)
BERHAMPUR SUB DIVISION									
A1	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	Chadiapada Sand Quarry	1591	32	50900	30199.2
A2	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	PARASAMBA SAND QUARRY	1667	30	50000	8224.8
A3	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	K.NUAGAM SAND QUARRY	1667	30	50000	42087.6
A4	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	SUNDARADA SAND QUARRY	1852	27	50000	44998.8
A5	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	KALABADA SAND QUARRY -I	1354	30	40620	36558
A6	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	KALABADA SAND QUARRY -II	1667	30	50000	44999.1
A7	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	CHILADI SAND QUARRY-I	1734	29	50300	41760
A8	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	CHILADI SAND QUARRY-II	1539	31	47700	57240
A9	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	BADA BARANGA SAND QUARRY -II	1533	33	50580	45521.1
A10	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	BADA BARANGA SAND QUARRY -I	1279	28	35800	35374.5
A11	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	BHOLASINGI SAND QUARRY	2146	30	64370	57933.9
B1	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	TENTUAPADA-A SAND QUARRY	1382	41	56660	33996
B2	KANTEIJODI RIVER				CHAITANYA PRASAD SAND QUARRY	558	39	21760	13058.4
B3	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	DHANARASI SAND QUARRY	1291	40	51620	61944
B4	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	KALINGADOLA SAND QUARRY	1660	40	66390	30144
B5	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	JALAMERIPALLI SAND QUARRY	2336	38	88780	84420

B6	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	GOUDAGAM SAND QUARRY	1550	41	63560	33717.6
B7	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	CHASANIMAKHANDI SAND QUARRY	3187	41	130680	117702
B8	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	Phasiguda Sand Quarry-1	1237	42	51970	21682.2
B9	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	PHASIGUDA SAND QUARRY	1368	38	51970	21682.2
B10	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	TENTUAPADA-B SAND QUARRY	1496	40	59820	30655.2
B11	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	BAJRAGUMMA SAND QUARRY	1108	41	45440	27264
C1	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	Nadigam Sand Quarry	1138	49	55770	24414
C2	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	KOLIALA SAND QUARRY	676	74	50000	38482.8
C3	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	KHARNIPADA SAND QUARRY	94	43	4050	4856.4
C4	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	Bhimapura sand Quarry-1	1613	31	50000	43098
C5	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	Bhimapura sand Quarry-2	1190	42	50000	36114
C6	Bahuda	49.13	Ramgiri and Mahendragiri hills	949mtr	Budagada	1667	30	50000	10842
D1	GHODAHADA	62	Lakhari Valley	800 mtr	BHALIAJHOLA SAND SOURCE	1020	49	50000	30240
D2	GHODAHADA	62	Lakhari Valley	800 mtr	LUNINATHI SAND BED	860	40	34400	28428
D3	GHODAHADA	62	Lakhari Valley	800 mtr	KHALINGI SAND SOURCE	410	122	50000	34009.2
D4	GHODAHADA	62	Lakhari Valley	800 mtr	ERENDRA SAND SOURCE	608	69	41970	25629.6
D5	GHODAHADA	62	Lakhari Valley	800 mtr	MOULABHANJA SAND SOURCE	868	44	38170	34353
D6	GHODAHADA	62	Lakhari Valley	800 mtr	SUNDHIPALLI SAND SOURCE	559	46	25730	15438
D7	GHODAHADA	62	Lakhari Valley	800 mtr	KHOLADI SAND SOURCE	2500	20	50000	30000
D8	GHODAHADA	62	Lakhari Valley	800 mtr	KARAKHANDI, GHODAHADA	945	48	45340	27204
D9	GHODAHADA	62	Lakhari Valley	800 mtr	DHARMARAYPUR SAND SOURCE	3059	45	137650	82590
D10	GHODAHADA	62	Lakhari Valley	800 mtr	AMBAGAM SAND SOURCE	1684	67	112820	67692
CHHATRAPUR SUB DIVISION									
E1	RUSHIKULYA	165	Daring Kandhamala	1000mtr	HANSAPUR	302	169	51090	36720
E2	RUSHIKULYA	165	Daring Kandhamala	1000mtr	POTLAMPUR	323	188	60700	43704
E3	RUSHIKULYA	165	Daring Kandhamala	1000mtr	BARANGA	410	148	60700	43704

E4	RUSHIKULYA	165	Daring Kandhamala	1000mtr	BADAMADHAPUR	265	229	60700	43704
E5	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Gova Sand	270	185	50000	30000
F1	RUSHIKULYA	165	Daring Kandhamala	1000mtr	ALLIABAD	287	176	50580	48876
F2	RUSHIKULYA	165	Daring Kandhamala	1000mtr	SRIBANA	215	235	50590	82560
F3	RUSHIKULYA	165	Daring Kandhamala	1000mtr	BAHALPUR	335	151	50590	60696
F4	RUSHIKULYA	165	Daring Kandhamala	1000mtr	SRIBANABATIMALA	219	240	52610	45492
F5	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Damodarpur Sand Quarry	291	172	50000	50000
F6	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Bajrakote-1 Sand Quarry	303	165	50000	50000
F7	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Bajrakote-2 Sand Quarry	309	162	50000	50000
F8	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Barapalli Sand Quarry	438	182	79700	79700
G1	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Long term lease of sand bed,kharida	271	194	52610	29237.4
H1	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Burutulu Sand bed	255	159	40470	15300
H2	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Balia Sand	311	167	52003	31201.8
H3	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Kanaka Sand Bed	1522	205	312100	338715
H4	RUSHIKULYA	165	Daring Kandhamala	1000mtr	BHIMPUR SAND BED	247	171	42190	54478.8
H5	RUSHIKULYA	165	Daring Kandhamala	1000mtr	MahaChai Sand Source	521	208	108300	64980
H6	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Handi Ghara sand bed	854	211	180230	108138
H7	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Morabai Sand	591	209	123550	74130
H8	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Achuli Sand bed	425	192	81600	48960
Q1	RUSHIKULYA	165	Daring Kandhamala	1000mtr	Bhetasingi Sand Source	278	163	45320	27192
BHANJANAGAR SUB-DIVISION									
I1	Bada nadi	129.81	Chakapada	270mtr	Dhanjia Sand Bed	300	162	48560	58274.4
I2	Bada nadi	129.81	Chakapada	270mtr	Bangarada Sand Bed	100	486	48560	58274.4
I3	Bada nadi	129.81	Chakapada	270mtr	Gahangu Sand Bed	460	106	48560	72843
I4	Bada nadi	129.81	Chakapada	270mtr	Jagadalpur Sand Bed	470	103	48560	29822.4
I5	Bada nadi	129.81	Chakapada	270mtr	Narasingapalli sand Bed	700	69	48560	39552
I6	Rushikulya River	165	Daring Kandhamala	1000mtr	Mangalapur Sand Bed	400	121	48560	29136
I7	Rushikulya River	165	Daring Kandhamala	1000mtr	Padhal Sand Bed	302	154	46510	46510
I8	Rushikulya River	165	Daring Kandhamala	1000mtr	Kendupadar Sand Bed	313	142	44510	44510

I9	Bada nadi	129.81	Chakapada	270mtr	Nirala Sand Bed	361	129	46530	46530
I10	Rushikulya River	165	Daring Kandhamala	1000mtr	Khadabhaga Sand Bed	361	129	46530	46530
J1	Bada nadi	129.81	Chakapada	270mtr	Bishnuchakra Sand Bed	140	102	14300	8580
K1	Bada nadi	129.81	Chakapada	270mtr	Bhereda Sand Bed	1470	34	49470	30027.6
K2	Bada nadi	129.81	Chakapada	270mtr	Baruda Sand bed	80	304	24340	22848
K3	Lohorkhandi River	35.25	Andharakote	443mtr	Badakodanda-I Sand Bed	960	34	32580	20700
K4	Lohorkhandi River	35.25	Andharakote	443mtr	Gamundi Sand Bed	560	88	49370	40824
K5	Lohorkhandi River	35.25	Andharakote	443mtr	Badakodanda-II Sand Bed	500	100	49980	14629.8
L1	Bada nadi	129.81	Chakapada	270mtr	Nuagam Sand bed	1720	29	49990	29994
L2	Bada nadi	129.81	Chakapada	270mtr	Benipali Sand bed	1260	50	62830	46638
L3	Bada nadi	129.81	Chakapada	270mtr	Banka Sand bed	1750	25	43700	26450.4
L4	Bada nadi	129.81	Chakapada	270mtr	Suramani Sand bed	1700	30	50380	24378
L5	Bada nadi	129.81	Chakapada	270mtr	Girisola Sand bed	2315	27	61610	25172.4
L6	Bada nadi	129.81	Chakapada	270mtr	Kokolunda Sand bed	1840	29	54130	32478
L7	Bada nadi	129.81	Chakapada	270mtr	Ambapua Sand bed	1820	35	63770	29674.2
M1	Bada nadi	129.81	Chakapada	270mtr	Kandarasing Sand Bed	800	151	121060	145272
M2	Bada nadi	129.81	Chakapada	270mtr	Sorisamuli Sand Bed	500	89	44520	15955.8
M3	Bada nadi	129.81	Chakapada	270mtr	Tentulia Sand Bed	500	94	46960	8606.4
M4	Bada nadi	129.81	Chakapada	270mtr	Nimapadar Sand Bed	700	63	44010	15412.8
N1	Rushikulya River	165	Daring Kandhamala	1000mtr	Santoshpur Sand Bed	160	304	48560	50192.4
N2	Rushikulya River	165	Daring Kandhamala	1000mtr	Pakidi Sand Bed	590	197	116230	182376
O1	Rushikulya River	165	Daring Kandhamala	1000mtr	G.P. Sasan Sand bed	220	227	49960	13700.4
P1	Rushikulya River	165	Daring Kandhamala	1000mtr	Kapilash Sand Bed	230	240	55180	28216.8
P2	Rushikulya River	165	Daring Kandhamala	1000mtr	Pankalbadi - B Sand Bed	230	223	51320	32537.4
P3	Rushikulya River	165	Daring Kandhamala	1000mtr	Laxmipur Sand Bed	230	228	52440	32702.1
P4	Rushikulya River	165	Daring Kandhamala	1000mtr	Jahada Sand Bed	230	331	76030	27871.2

Mineral Potential:

Boulder(MT)	Bajari(MT)	Sand(Cum)	Total Mineable Mineral Potential(Cum)	Annual Deposition
NA	NA	6845032.8	4289262.5	-

SI No.	River or Stream	Portion of the river or stream recommended for mineral concession	Length of area recommended for mineral concession(in mt.)	Average width of area recommended for mineral concession(in mt.)	Area recommended for mineral concession(in sq. m)	Mineable mineral potential (in metric tonne) (60% of total mineral potential)
A1	Bahuda	Chadiapada Sand Quarry, At:- CHADIAPADA,Khata No-631, Plot No- 1 & 1079, Kissam- Nadi (84°31'13.00" 19°14'16.80", & 84°31'9.30" 19°14'17.80")	1591	32	50900	30199.2
A2	Bahuda	PARASAMBA SAND QUARRY At:- Parasama,Khata No-407, Plot No- 1 & 177, Kissam- Nadi (84°34'8.50" 19°12'31.20", 84°34'6.50" 19°12'33.30")	1667	30	50000	8224.8
A3	Bahuda	K.NUAGAM SAND QUARRY At:- KAMPA NUAGAM,Khata No-401, Plot No- 4,531,2206 Kissam- Nadi (84°33'12.47" 19°13'42.73", 84°33'42.11" 19°12'55.04")	1667	30	50000	42087.6
A4	Bahuda	SUNDARADA SAND QUARRYAt:- SUNDRAUDABIRA CHAITANYAPUR SASANA, Khata No-223, Plot No- 1059 Kissam- Nadi(84°30'38.20" 19°14'13.90", 84°30'38.80" 19°14'11.00")	1852	27	50000	44998.8
A5	Bahuda	KALABADA SAND QUARRY -I At:- KALABADA , Khata No-525, Plot No- 1 & 2395 Kissam- Nadi(84°35'37.00" 19°9'21.80", 84°35'36.00" 19°9'18.80")	1354	30	40620	36558
A6	Bahuda	KALABADA SAND QUARRY -II At:- KALABADA , Khata No-525, Plot No- 2395 Kissam- River (84°35'36.10" 19°9'24.50", 84°35'40.30" 19°9'25.10")	1667	30	50000	44999.1
A7	Bahuda	CHILADI SAND QUARRY-I At:-CHILADI , Khata No-462, Plot No- 2369/2958 & 2179, Kissam- Nadi (84°35'32.17" 19°10'27.99", 84°35'30.58" 19°10'6.78")	1734	29	50300	41760

A8	Bahuda	CHILADI SAND QUARRY-II At:- CHILADI, Khata No-462, Plot No- 15/2957, Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")	1539	31	47700	57240
A9	Bahuda	BADA BARANGA SAND QUARRY -II , At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")	1533	33	50580	45521.1
A10	Bahuda	BADA BARANGA SAND QUARRY -I, At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'50.64" 19°9'1.08", 84°35'59.28"19°9'28.44")	1279	28	35800	35374.5
A11	Bahuda	BHOLASINGI SAND QUARRY , At:- BHOLASINGI, Khata No-378, Plot No-1556 , Kissam- Nadi (84°35'7.80" 19°11'20.40", 84°35'31.56"19°11'31.92")	2146	30	64370	57933.9
B1	Bahuda	TENTUAPADA-A SAND QUARRY, TENTUAPADA Khata No-324 & 1666, Plot No- 1603,1665 & 1666, Kissam- Nadi (84°32'9.70" 19°14'12.10", 84°32'10.20" 19°14'8.50")	1382	41	56660	33996
B2	KANTEIJODI RIVER	CHAITANYA PRASAD SAND QUARRY, CHAITANYA PRASAD Khata No-125, Plot No- 1130, Kissam- Nadi (84°32'21.60" 19°14'46.40", 84°32'22.10" 19°14'43.70")	558	39	21760	13058.4
B3	Bahuda	DHANARASI SAND QUARRY, DHANRASI Khata No-276, Plot No- 1 & 28, Kissam- Nadi (84°31'12.00" 19°14'4.00", 84°31'19.70" 19°14'3.50")	1291	40	51620	61944
B4	Bahuda	KALINGADOLA SAND QUARRY, KALINGADOLA, Khata No-270, Plot No- 575, Kissam- Nadi (84°32'57.12"19°13'37.56", 84°33'16.20"19°13'55.20")	1660	40	66390	30144
B5	Bahuda	JALAMERIPALLI SAND QUARRY, Jalameripalli, Khata No-327, Plot No-1488, Kissam- Nadi (84°29'49.50" 19°22'58.70", 84°30'1.60" 19°22'58.60")	2336	38	88780	84420
B6	Bahuda	GOUDAGAM SAND QUARRY , GOUDAGAM, Khata No-844, Plot No-1917,1908 & 1848, (2.327, 2.239 & 1.790 Ha) Kissam- Nadi (84°29'1.20"19°13'22.90", 84°29'1.20"19°13'23.90")	1550	41	63560	33717.6

B7	Bahuda	CHASANIMAKHANDI SAND QUARRY , CHASANIMAKHANDI, Khata No-1004, Plot No-1535 & 1427,(7.042 & 6.026) Kissam- Nadi (84°28'33.40"19°21'40.00", 84°28'33.80"19°21'40.10")	3187	41	130680	117702
B8	Bahuda	Phasiguda Sand Quarry-1 , PHASIGUDA, Khata No- 584, Plot No-4715, Kissam- Nadi LAT- 19.392 LONG- 84.507	1237	42	51970	21682.2
B9	Bahuda	PHASIGUDA SAND QUARRY ,PHASIGUDA, Khata No- 584, Plot No-4715, Kissam- Nadi (84°30'8.26"19°23'25.75", 84°30'14.80"19°23'36.29")	1368	38	51970	21682.2
B10	Bahuda	TENTUAPADA-B SAND QUARRY , TENTUAPADA, Khata No-324, Plot No-2084, Kissam- Nadi (84°32'25.42"19°14'15.63",84°32'25.74"19°14'11.33")	1496	40	59820	30655.2
B11	Bahuda	BAJRAGUMMA SAND QUARRY , BAJRAGUMMA, Khata No-245, Plot No-694 & 695, Kissam- Nadi (84°28'29.28"19°11'33.00"84°28'41.52"19°11'49.56")	1108	41	45440	27264
C1	Bahuda	Nadigam Sand Quarry AT-NADIGAM, Khata No-520, Plot No-682& 684, Kissam- Nadi (84°34'28.93" 19°11'43.08", 84°34'53.78" 19°11'57.11")	1138	49	55770	24414
C2	Bahuda	KOLIALA SAND QUARRY AT-KOLIALA, Khata No-530, Plot No-1444, Kissam- Nadi (84°33'48.40" 19°12'53.18", 84°33'47.85" 19°12'51.45")	676	74	50000	38482.8
C3	Bahuda	KHARNIPADA SAND QUARRY AT-KHARANIPADA, Khata No-777, Plot No-1098, Kissam- Nadi (84°34'9.92" 19°12'14.34", 84°34'9.03" 19°12'12.70")	94	43	4050	4856.4
C4	Bahuda	Bhimapura sand Quarry-1 , Bhimapura, Khata No- 503, Plot No-1(Area 12.750 Ac) & 18(Area 5.00Ac), Kissam- Nadi LAT- 19.14 LONG- 84.587	1613	31	71830	43098
C5	Bahuda	Bhimapura sand Quarry-2, Bhimapura, Khata No- 506, Plot No-174(Area 14.875 Ac) Kissam- Nadi LAT- 19.139 LONG- 84.601	1190	42	60190	36114
C6	Bahuda	Budagada, Bhimapura, Khata No-253, Plot No-553(Area 2.765 Ac),Plot No-1398(Area 0.588 Ac) &Plot No-1397(Area 1.213 Ac) Kissam- Nadi	1667	30	18070	10842
D1	GHODAHADA	BHALIAJHOLA SAND SOURCE BHALIAJHOLA, Khata No-527, Plot No-3588, Kissam- Nadi (84°35'39.84"19°27'6.12", 84°36'5.40"19°27'23.40")	1020	49	50000	30240
D2	GHODAHADA	LUNINATHI SAND BED At:- LUNINATHI,Khata No-170, Plot No- 1539, Kissam- River(84°33'36.87" 19°25'31.34", 84°34'0.17" 19°25'39.19")	860	40	34400	28428

D3	GHODAHADA	KHALINGI SAND SOURCE At:- KHALINGI,Khata No-1186, Plot No- 1917, Kissam- Nadi (84°39'21.40" 19°26'26.63", 84°39'39.30" 19°26'7.04")	410	122	50000	34009.2
D4	GHODAHADA	ERENDRA SAND SOURCE At-ERENDRA,Khata No-860, Plot No- 636, Kissam- Nadi (84°37'52.94" 19°27'10.30", 84°37'52.70" 19°27'8.11")	608	69	41970	25629.6
D5	GHODAHADA	MOULABHANJA SAND SOURCE At- MOULABHANJA,Khata No-1505, Plot No- 4156, Kissam- Nadi (Longitude-84°31'20.05" Latitude-19°23'47.60") to (Longitude-84°31'30.16" Latitude-19°23'56.81")	868	44	38170	34353
D6	GHODAHADA	SUNDHIPALLI SAND SOURCE , SUNDHIPALLI,Khata No-545(AAA), Plot No- 389, Kissam- Nadi (Longitude-84°33'1.80" Latitude-19°24'43.56") to (Longitude-84°33'12.96" Latitude-19°24'54.36")	559	46	25730	15438
D7	GHODAHADA	KHOLADI SAND SOURCE , KHOLADI,Khata No-337 (AAA), Plot No- 910, Kissam- Nadi (Longitude-84°33'5.90" Latitude-19°25'11.10") to (Longitude-84°32'0.50"Latitude-19°25'7.20")	2500	20	50000	30000
D8	GHODAHADA	KARAKHANDI,GHODAHADA, KANAKARADA,Khata No-786, Plot No- 4011, Kissam- Nadi (Longitude-84°40'24.24" Latitude-19°26'29.04") to (Longitude-84°40'39.00"Latitude-19°27'4.68")	945	48	45340	27204
D9	GHODAHADA	DHARMARAYPUR SAND SOURCE , DHARMARAYAPUR,Khata No-458, Plot No- 2110,2112,1899 & 2092(1.280, 4.451, 3.095 & 4.939), Kissam- Nadi (Longitude-84°36'3.57" Latitude-19°27'20.79") to (Longitude-84°36'4.70"Latitude-19°27'22.59")	3059	45	137650	82590
D10	GHODAHADA	AMBAGAM SAND SOURCE , AMBAGAM,Khata No-217(AAA), Plot No- 1,461 & 199/1152, (3.375, 2.262 & 5.645)Kissam- Nadi (Longitude-84°31'57.00" Latitude-19°25'0.84") to (Longitude-84°32'24.72"Latitude-19°25'12.72")	1684	67	112820	67692
E1	RUSHIKULYA	HANSAPUR At-HANSAPUR, Khata No-503, Plot No-1764/2119, 276/2123, 1764/2121 & 03/2118 Kissam- Nadi (Longitude-84°59'55.2" Latitude-19°24'49.0") to (Longitude-85°00'49.9" Latitude-19°25'40.9")	302	169	51090	36720

E2	RUSHIKULYA	POTLAMPUR At-POTLAMPUR, Khata No-282, Plot No-279/1054, Kissam- Nadi (Longitude-84°59'34.01" Latitude-19°26'18.08") to (Longitude-84°59'36.3" Latitude-19°26'20.6")	323	188	60700	43704
E3	RUSHIKULYA	BARANGA At-BARANGA, Khata No-463, Plot No-962/1943, Kissam- Nadi (Longitude-84°58'9.07" Latitude-19°26'46.8") to (Longitude-84°58'14.8" Latitude-19°26'47.0")	410	148	60700	43704
E4	RUSHIKULYA	BADAMADHAPUR Vill-BADAMADHAPUR Khata No-1399, Plot No- 909/7520, Kissam- Nadi (Longitude-84°58'9.06" Latitude-19°27'41.6") to (Longitude-84°58'07.5" Latitude-19°27'47.8")	265	229	60700	43704
E5	RUSHIKULYA	Gova Sand Vill-GOVA, Vill-GOVA, Khata No-836, Plot No- 110, Kissam- Nadi Longitude- 19.5 Latitude-84.944	270	185	50000	30000
F1	RUSHIKULYA	ALLIABAD Vill-ALLIABAD Khata No-610, Plot No-328/1310 , Kissam- Nadi (Longitude-85°01'48.65" Latitude-19°23'36.40") to (Longitude-85°01'56.55" Latitude-19°23'45.03")	287	176	50580	48876
F2	RUSHIKULYA	SRIBANA AT-SRIBANA, Khata No-175, Plot No- 427, Kissam- Nadi (Longitude-85°0'44.06" Latitude-19°24'57.03") to (Longitude-85°00'58.44" Latitude-19°25'11.26")	215	235	50590	82560
F3	RUSHIKULYA	BAHALPUR AT-BAHALPUR, Khata No-356, Plot No-946/1250, Kissam- Nadi (Longitude-85°00'26.65" Latitude-19°25'14.16") to (Longitude-85°00'41.34" Latitude-19°25'22.26")	335	151	50590	60696
F4	RUSHIKULYA	SRIBANABATIMALA AT-SRIBANABATIMALA, Khata No-873, Plot No- 554/2950, Kissam- Nadi (Longitude-85°01'34.84" Latitude-19°24'49.38") to (Longitude-85°01'26.27" Latitude-19°24'40.43")	219	240	52610	45492
F5	RUSHIKULYA	Damodarpur Sand Quarry, AT- Damodarpur, Khata No-189, Plot No-262, Kissam- Nadi , Lat- 19.385, Long- 85.038	291	172	50000	50000
F6	RUSHIKULYA	Bajrakote-1 Sand Quarry, AT- Bajrakote, Khata No-38, Plot No-9, Kissam- Nadi, Lat- 19.447, Long- 85.99	303	165	50000	50000
F7	RUSHIKULYA	Bajrakote-2 Sand Quarry, AT- Bajrakote, Khata No-38, Plot No-197, Kissam- Nadi, Lat- 19.442, Long- 85.992	309	162	50000	50000

F8	RUSHIKULYA	Barapalli Sand Quarry, AT- barapalli, Khata No-569, Plot No-1715 & 1716, Kissam- Nadi, lat- 19.468, Long- 84.97	438	182	79700	79700
G1	RUSHIKULYA	Long term lease of sand bed,kharida, AT- kharida, Khata No-554, Plot No- 4553/1 & 4532/1, Kissam-Nadi (Longitude-84°46'35.82" Latitude-19°29'48.79") to (Longitude-84°46'43.72" Latitude-19°30'00.70")	271	194	52610	29237.4
H1	RUSHIKULYA	Burutulu Sand bed, AT- Burutulu, Khata No-186, Plot No-901, Kissam- Nadi LAT- 19.506 LONG-84.834	255	159	40470	15300
H2	RUSHIKULYA	Balia Sand, AT- Balia, Khata No-1054 & 786, Plot No-2605 & 1, Kissam- Nadi LAT-19.493 LONG-84.952	311	167	52003	31201.8
H3	RUSHIKULYA	Kanaka Sand Bed, AT-Kanaka, Khata No-472, Plot No- 865, 865/1012 & 785/1013, Kissam-Nadi(Longitude-84°51'9.09" Latitude-19°30'22.23") to (Longitude-84°51'10.73" Latitude-19°30'15.84")	1522	205	312100	338715
H4	RUSHIKULYA	BHIMPUR SAND BED, AT- BHIMPUR, Khata No-640, Plot No- 1320, Kissam- Nadi(Longitude-84°50'59.00" Latitude-19°30'22.67") to (Longitude-84°50'59.00" Latitude-19°30'17.07")	247	171	42190	54478.8
H5	RUSHIKULYA	MahaChai Sand Source, AT- MAHACHAI, Khata No-664, Plot No- 2610, Kissam- Nadi(Longitude-84°45'42.43" Latitude-19°30'52.34")	521	208	108300	64980
H6	RUSHIKULYA	Handi Ghara sand bed, AT- HANDIGHARA, Khata No-660, Plot No- 1739, Kissam- Nadi LAT-19.495 LONG-84.91	854	211	180230	108138
H7	RUSHIKULYA	Morabai Sand BED, AT- MORABAI, Khata No-380 Plot No-1209, Kissam- Nadi (Longitude- Latitude- to (Longitude-19.501 Latitude-84.825)	591	209	123550	74130
H8	RUSHIKULYA	Achuli Sand bed, AT- ACHULI, Khata No-409, Plot No-617,618,1022, Kissam- Nadi Longitude-19.497, Latitude-84.899	425	192	81600	48960
Q1	RUSHIKULYA	Bhetasingi Sand Source AT-BHETASINGI Khata No-293(AAA),Plot No-1229/1384/A, KISSAM-NADI (Latitude-19°31'44.40" N LONGITUDE-84°44'58.95" E)	278	163	45320	27192
I1	Barha River	Dhanjia Sand Bed Mouza-Dhanjia, Khata-851, Plot-531, 522, Kissam-Nadi, Lat-19°42'30.1"- 19°42'39.3", Long-84°40'50.0"- 84°40'59.2"	300	162	48560	58274.4

12	Barha River	Bangarada Sand Bed Mouza-Bangarada ,Khata-1429, Plot-3842 , Kissam-Nadi, Lat-19°45'49.8"-19°46'03.30", Long-84°39'37.7" - 84°39'48.4"	100	486	48560	58274.4
13	Barha River	Gahangu Sand Bed Mouza-Bangarada ,Khata-1254, Plot-1 , Kissam-Nadi, Lat-18°49'33.49"-18°49'25.46", Long-84°10'07.38"-84°10'00.28"	460	106	48560	72843
14	Barha River	Jagadalpur Sand Bed Mouza-Bangarada ,Khata-466, Plot-337,194 , Kissam-Nadi, Lat-19°40'27.25"-19°40'43.78", Long-84°39'15.40"- 84°39'22.42"	470	103	48560	29822.4
15	Barha River	Narasingapalli sand BedMouza-Bangarada ,Khata-109, Plot-1 , Kissam-Nadi, Lat-19°35'56.13"-19°36'15.06", Long-84°40'39/79"- 84°40'47.56"	700	69	48560	39552
16	Rushikulya River	Mangalapur Sand Bed Mouza-Bangarada ,Khata-1522, Plot-3025,3348 , Kissam-Nadi, Lat-19°37'50.9"-19°37'57.4", Long-84°36'48.0"-84°36'59.5"	400	121	48560	29136
17	Rushikulya River	Padhal Sand Bed AT-Padhal, Khata No-354, Plot No- 1946 , Kissam- Nadi Longitute-19.581 Latitute-84.675	302	154	46510	46510
18	Rushikulya River	Kendupadar Sand Bed AT-Kendupadar, Khata No-611, Plot No- 610/1265 , Kissam- Nadi Longitute-19.565 Latitute-84.698	313	142	44510	44510
19	Bada nadi	Nirala Sand Bed AT-Nirala, Khata No-316, Plot No-1791 , Kissam- Nadi Longitute- 19.646 Latitute-84.66	361	129	46530	46530
110	Rushikulya River	Khadabhaga Sand Bed AT-KHADABHAGA, Khata No-504(AAA), Plot No- 908, Kissam- Nadi Longitute-19.574 Latitute-84.68	361	129	46530	46530
J1	Barha River	Bishnuchakra Sand BedMouza-Bishnuchakra ,khata-913, Plot- 4045,kissam-Nadi,Lat-19°45'38.37"-19°45'45.95", Long-84°45'58.18"- 84°40'05.05"	140	102	14300	8580
K1	Barha River	Bhereda Sand Bed Mouza-Bhereda ,khata-360, Plot-315, 662/P,kissam-Nadi,Lat-19°56'10.28"-19°56'43.87Long- 84°36'24.65"- 84°36'49.93"	1470	34	49470	30027.6
K2	Barha River	Baruda Sand bed Mouza-Baruda ,khata-723,, Plot-1617/A,kissam-Nadi, Lat-19°59'28,50"-19°59'39.13"Long- 84°37'47.14"- 84°37'55.36"	80	304	24340	22848
K3	Lohorkhandi River	Badakodanda-I Sand Bed Mouza- Badakodanda ,khata-1430 ,, Plot-3625/A,kissam-Nadi, Lat-Long-19°56'21.53"- 19°56'25.93" 87°33'56.62"- 84°34'10.75"	960	34	32580	20700

K4	Lohorkhandi River	Gamundi Sand Bed Mouza- ,khata-999,339,kissam-Nadi, Plot-203/A,703/A,Lat-19°55'05.96"- 91°55'20.70", Long- 84°35'19.52"- 84°35'39.17"	560	88	49370	40824
K5	Lohorkhandi River	Badakodanda- II Sand Bed Mouza-Badakodanda ,khata-1430, Plot-1991, kissam-Nadi,Lat-Long- 84°32'19.15"- 84°32'58.07"	500	100	49980	14629.8
L1	Barha River	Nuagam Sand Bed AT-Nuagam, Khata No-969, Plot No- 125,292,291, Kissam- Nadi Lat-19.924, Long- 84.602	1720	29	49990	29994
L2	Barha River	Benipali Sand Bed Mouza-Benipalli ,khata-859, Plot- 210,211,kissam-Nadi, Lat-20°50'35.11"- 20°51'00.95", Long- 84°37'29.19"- 84°37'35.73"	1260	50	62830	46638
L3	Barha River	Banka Sand Bed Mouza-Banka ,khata-852, Plot- 2047,kissam-Nadi, Lat-19°49'30.60" - 19°49'44.77", Long- 84°37'28.13"- 84°37'35.28"	1750	25	43700	26450.4
L4	Barha River	Suramani Sand Bed Mouza- Suramani,khata- 232,Plot-659, 1/1725,kissam-Nadi, Lat- 19°48'35.62"- 19°48'57.34"Long- 84°37'47.25"- 84°37'54.87"	1700	30	50380	24378
L5	Barha River	Girisola Sand Bed Mouza- Girisola,khata-970, Plot- 1,kissam-Nadi, Lat-19°50'23.10"- 19°50'45.20", Long- 84°37'32.80"- 84°37'44.70"	2315	27	61610	25172.4
L6	Barha River	Kokolunda Sand Bed Mouza-Kokolunda ,khata-483, Plot-2141/2158,kissam-Nadi, Lat-19°50'23.10"- 19°50'45.20"Long- 84°38'50.14"- 84°29'02.28"	1840	29	54130	32478
L7	Barha River	Ambapua Sand Bed Mouza-Ambapua ,khata-694, Plot-71/2179, 71, 1289,kissam-Nadi, Lat-19°42'31.39"- 19°51'48.82", Long- 84°38'23.25"- 84°39'19.60"	1820	35	63770	29674.2
M1	Barha River	Kandarasing Sand Bed Mouza-Kandarasing ,khata- 567, Plot-3222,3112,3119,2794,2268 ,kissam-Nadi, Lat-19°54'16.19"- 19°54'36.46", Long- 84°43'18.57"- 84°43'42.15"	800	151	121060	145272
M2	Barha River	Sorisamuli Sand Bed Mouza-Sorisamuli ,khata- 283, Plot-973,kissam-Nadi, Lat-19°53'16.80"- 19°53'28.28" Long- 84°41'56.93"- 84°42'12.65"	500	89	44520	15955.8
M3	Barha River	Tentulia Sand Bed Mouza-Tentulia ,khata-344, Plot- 2043,kissam-Nadi, Lat-19°53'49.48"- 19°53'58.58"Long- 84°42'39.82"- 84°42'46.16"	500	94	46960	8606.4
M4	Barha River	Nimapadar Sand Bed Mouza- Nimapadara,khata- 1472, Plot-744,kissam-Nadi, Lat-19°52'55.46"- 19°53'3.12", Long- 84°41'13.46"- 84°41'29.60"	700	63	44010	15412.8

N1	Rushikulya River	Santoshpur Sand bed Mouza- Santoshpur,khata-417, Plot-45,kissam-Nadi, Lat-19°32'01.85"-19°32'01.86", Long-84°44'01.99"- 84°44'13.94"	160	304	48560	50192.4
N2	Rushikulya River	Pakidi Sand bed Mouza-Pakidi ,khata-507, Plot-1,kissam-Nadi, Lat-19°33'08.55" - 19°33'31.43" Long-84°42'09.61"-84°42'25.91"	590	197	116230	182376
O1	Rushikulya River	G.P. Sasan Sand Bed Mouza- G.P. Sasan,khata-271, Plot-1501,kissam-Nadi, Lat-19°45'25.92"-19°45'35.17", Long- 84°27'03.73"- 84°27'17.06"	220	227	49960	13700.4
P1	Rushikulya River	Kapilash Sand Bed Mouza-Kapilash ,khata-201, Plot-391,kissam-Nadi, Lat-19°38'52.41"- 19°29'11.89", Long- 84°35'22.36"- 84°35'37.34"	230	240	55180	28216.8
P2	Rushikulya River	Pankalbadi - B Sand Bed Mouza-Pankalabadi ,khata-319, Plot-1837,2231,kissam-Nadi, Lat-19°36'23.47"- 19°36'27.53", Long- 84°38'20.24"- 84°38'38.68"	230	223	51320	32537.4
P3	Rushikulya River	Laxmipur Sand Bed Mouza-Laxmipur ,khata-189, Plot-302, 580(P),kissam-Nadi, Lat-19°37'06.32"-19°37'23.04"Long- 84°37'13.58"-84°37'20.96	230	228	52440	32702.1
P4	Rushikulya River	Jahada Sand Bed Mouza- Jahada,khata-861, Plot-5680 ,5681,kissam-Nadi, Lat-19°40'41.98"-19°40'51.90", Long- 84°33'37.19"- 84°33'53.23"	230	331	76030	27871.2

Details of Sand/M-Sand Sources

a) Rivers:

River Name/M-Sand plant	Total Stretch of River (in KM)	Type of River (Perennial or Non-Perennial)
Rushikulya River	165	Perennial
Bada River	129.81	Perennial
Lohorkhandi River	35.25	Perennial
Ghodahada	62	Perennial
Bahuda	49.13	Perennial

b) De-Siltation Location: (Lakes/Ponds/Dams etc.)

Name of Reservoir/Dams	Maintain/Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size(Ha)
BAGHALATI DAM	Govt.	Baghalati	Ganjam	Patrapur	Baghalati	175
BAGHUA DAM	Govt.	Gangapur	Ganjam	Sanakhemundi	Gangapur	0.28
BHANJANAGAR DAM	Govt.	RASALAKONDA RESERVOIR	Ganjam	BHANJANAGAR	RASALAKONDA RESERVOIR	720
DAHA DAM	Govt.	DAUMUNDIA	Ganjam	BHANJANAGAR	DAUMUNDIA	270
DHANEI DAM	Govt.	BORASINGH	Ganjam	POLASARA	BORASINGH	245
GHATESWAR DAM	Govt.	BANIAMARI	Ganjam	KUKUDAKHANDI	BANIAMARI	9.5
GHODAHADA DAM	Govt.	BIJAYANAGARAGADA	Ganjam	DIGAPAHANDI	BIJAYANAGARAGADA	295
JHARANAI DAM	Govt.	FOREST	Ganjam	KODALA	FOREST	10
KANHEINALLA DAM	Govt.	BADA DUMULA	Ganjam	DIGAPAHANDI	BADA DUMULA	17
RAGHUNATH SAGAR DAM	Govt.	NARASINHAGARA	Ganjam	Sanakhemundi	NARASINHAGARA	45
RAMAGUDA DAM	Govt.	LOCHAPARA	Ganjam	KUKUDAKHANDI	LOCHAPARA	6
SALIA RESERVOIR	Govt.	BAISNABAKHUNTAKATA	Ganjam	KODALA	BAISNABAKHUNTAKATA	200
SORODA DAM	Govt.	SARODA RESERVOIR	Ganjam	SORADA	SARODA RESERVOIR	550
DEBIJHAR DAM	Govt.	DEBIJHAR	Ganjam	KHALLIKOTE	DEBIJHAR	14
LUHAKOTE DAM	Govt.	LUHAKOT	Ganjam	KODALA	LUHAKOT	51
DAKHINAPUR WATER RESERVOIR	Govt.	GUNTHABANDHA	Ganjam	KUKUDAKHANDI	GUNTHABANDHA	25

c) Patta Lands/Khatedari Land:

Owner	Sy. No	Area (Ha)	District	Tehsil	Village	Agricultural Land (Yes/No)

d) M-Sand Plants:

Plant Name	Owner	District	Tehsil	Village	Geo- location	Quantity Tonnes/Annum

List of Potential Mining Leases (existing & proposed)

Rivers:

Lease No.	River Details	Lease Details	Area (in Ac/Ha)	Distance (in KM) from PA/BR/WC/	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in Cum /Annum considering digging depth max as 3 meters	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
A1	Bahuda	Chadiapada Sand Quarry At:- CHADIAPADA, Khata No-631, Plot No- 1 & 1079, Kissam- Nadi (84°31'13.00" 19°14'16.80", & 84°31'9.30" 19°14'17.80")	5.09	PR-3.32/ BR-0.7	3.32		50332	Sand	Existing
A2	Bahuda	PARASAMBA SAND QUARRY At:- Parasama, Khata No-407, Plot No- 1 & 177, Kissam- Nadi (84°34'8.50" 19°12'31.20", 84°34'6.50" 19°12'33.30")	5	PA-3.8/BR-3.5	3.8		13708	Sand	Existing
A3	Bahuda	K.NUAGAM SAND QUARRY At:- KAMPA NUAGAM, Khata No-401, Plot No- 4,531,2206 Kissam- Nadi (84°33'12.47" 19°13'42.73", 84°33'42.11" 19°12'55.04")	5	PA-4.7/BR-0.3	4.7		70146	Sand	Existing
A4	Bahuda	SUNDARADA SAND QUARRY At:- SUNDRAUDABIRA CHAITANYAPUR SASANA, Khata No-223, Plot No-1059 Kissam- Nadi(84°30'38.20" 19°14'13.90", 84°30'38.80" 19°14'11.00")	5	PA-1/BR-0.3	1		74998	Sand	Existing
A5	Bahuda	KALABADA SAND QUARRY -I At:- KALABADA , Khata No-525, Plot No- 1 & 2395 Kissam- Nadi(84°35'37.00" 19°9'21.80", 84°35'36.00" 19°9'18.80")	4.062	PA-7.4/BR-0.6	7.4		60930	Sand	Existing
A6	Bahuda	KALABADA SAND QUARRY -II At:- KALABADA , Khata No-525, Plot No- 2395 Kissam- River (84°35'36.10" 19°9'24.50", 84°35'40.30" 19°9'25.10")	5	PA-7.5/BR-0.5	7.5		74998.5	Sand	Existing
A7	Bahuda	CHILADI SAND QUARRY-I At:-CHILADI , Khata No-462, Plot No- 2369/2958 & 2179, Kissam- Nadi (84°35'32.17" 19°10'27.99", 84°35'30.58" 19°10'6.78")	5.03	PR-11.5/BR-1.1	11.5		69600	Sand	Existing
A8	Bahuda	CHILADI SAND QUARRY-II At:- CHILADI, Khata No-462, Plot No- 15/2957, Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")	4.77	PA-6.7/BR-1.2	6.7		95400	Sand	Existing
A9	Bahuda	BADA BARANGA SAND QUARRY -II , At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")	5.058	PA-8.44/ BR-0.48	8.44		75868.5	Sand	Existing

A10		BADA BARANGA SAND QUARRY -I, At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'50.64" 19°9'1.08", 84°35'59.28"19°9'28.44")	3.58	PA-8.18/ BR-1.1	8.18		58957.5	Sand	Existing
A11		BHOLASINGI SAND QUARRY , At:- BHOLASINGI, Khata No-378, Plot No-1556 , Kissam- Nadi (84°35'7.80" 19°11'20.40", 84°35'31.56"19°11'31.92")	6.437	PA-7.14/BR-0.57	7.14		96556.5	Sand	Existing
B1	Bahuda	TENTUAPADA-A SAND QUARRY TENTUAPADA Khata No-324 & 1666, Plot No- 1603,1665 & 1666, Kissam- Nadi (84°32'9.70" 19°14'12.10", 84°32'10.20" 19°14'8.50")	5.666	PA-3.48/BR-1.3	3.48		56660	Sand	Existing
B2	KANTEIJODI RIVER	CHAITANYA PRASAD SAND QUARRY CHAITANYA PRASAD Khata No-125, Plot No- 1130, Kissam- Nadi (84°32'21.60" 19°14'46.40", 84°32'22.10" 19°14'43.70")	2.176	PA-4.35/BR-1.6	4.35		21764	Sand	Existing
B3	Bahuda	DHANARASI SAND QUARRY DHANRASI Khata No-276, Plot No- 1 & 28, Kissam- Nadi (84°31'12.00" 19°14'4.00", 84°31'19.70" 19°14'3.50")	5.162	PA-3.29/BR-1.95	3.29		103240	Sand	Existing
B4	Bahuda	KALINGADOLA SAND QUARRY KALINGADOLA, Khata No-270, Plot No- 575, Kissam- Nadi (84°32'57.12"19°13'37.56", 84°33'16.20" 19°13'55.20")	6.639	PA-5.15/BR-1.1	5.15		50240	Sand	Existing
B5	Bahuda	JALAMERIPALLI SAND QUARRY Jalameripalli, Khata No-327, Plot No-1488, Kissam- Nadi (84°29'49.50" 19°22'58.70", 84°30'1.60" 19°22'58.60")	8.878	PA-7.44/BR-0.72	7.44		140700	Sand	Existing
B6	Bahuda	GOUDAGAM SAND QUARRY , GOUDAGAM, Khata No-844, Plot No-1917,1908 & 1848, (2.327, 2.239 & 1.790 Ha) Kissam- Nadi (84°29'1.20"19°13'22.90", 84°29'1.20"19°13'23.90")	6.356	PA-6.51/BR-0.54	6.51		56196	Sand	Existing
B7	Bahuda	CHASANIMAKHANDI SAND QUARRY , CHASANIMAKHANDI, Khata No-1004, Plot No-1535 & 1427,(7.042 & 6.026) Kissam- Nadi (84°28'33.40"19°21'40.00", 84°28'33.80"19°21'40.10")	13.068	PA-6.17/BR-0.45	6.17		196170	Sand	Existing
B8	Bahuda	Phasiguda Sand Quarry-1 , PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi LAT- 19.392 LONG-84.507	5.197	PA-7.92/BR-0.97	7.92		36137	Sand	Existing
B9	Bahuda	PHASIGUDA SAND QUARRY ,PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi (84°30'8.26"19°23'25.75", 84°30'14.80"19°23'36.29")	5.197	PA-7.97/BR-0.45	7.97		36137	Sand	Existing
B10	Bahuda	TENTUAPADA-B SAND QUARRY , TENTUAPADA, Khata No-324, Plot No-2084, Kissam- Nadi (84°32'25.42"19°14'15.63",84°32'25.74"19°14'11.33")	5.982	PA-2.94/BR-1.1	2.94		51092	Sand	Existing
B11	Bahuda	BAJRAGUMMA SAND QUARRY , BAJRAGUMMA, Khata No-245, Plot No-694 & 695, Kissam- Nadi (84°28'29.28"19°11'33.00"84°28'41.52"19°11'49.56")	4.544	PA-1.37/BR-3.1	1.37		NA	Sand	Existing
C1	Bahuda	Nadigam Sand Quarry NADIGAM, Khata No-520, Plot No-682& 684, Kissam- Nadi (84°34'28.93" 19°11'43.08", 84°34'53.78" 19°11'57.11")	5.577	PA-2.7/BR-1.9	2.7		40690	Sand	Existing

C2	Bahuda	KOLIALA SAND QUARRY KOLIALA, Khata No-530, Plot No-1444, Kissam- Nadi (84°33'48.40" 19°12'53.18", 84°33'47.85" 19°12'51.45")	5	PA-1.8/BR-0.7	1.8		64138	Sand	Existing
C3	Bahuda	KHARNIPADA SAND QUARRY KHARANIPADA, Khata No-777, Plot No-1098, Kissam- Nadi (84°34'9.92" 19°12'14.34", 84°34'9.03" 19°12'12.70")	0.405	PA-3/BR-2.0	3		8094	Sand	Existing
C4	Bahuda	Bhimapura sand Quarry-1 , Bhimapura, Khata No-503, Plot No-1(Area 12.750 Ac) & 18(Area 5.00Ac), Kissam- Nadi LAT- 19.14 LONG- 84.587	7.183	PA-9.2/BR-2.1	9.2			Sand	Proposed
C5	Bahuda	Bhimapura sand Quarry-2, Bhimapura, Khata No-506, Plot No-174(Area 14.875 Ac) Kissam- Nadi LAT- 19.139 LONG- 84.601	6.019	PA-7.8/BR-2.2	7.8			Sand	Proposed
C6	Bahuda	Budagada, Bhimapura, Khata No-253, Plot No-553(Area 2.765 Ac),Plot No-1398(Area 0.588 Ac) &Plot No-1397(Area 1.213 Ac) Kissam- Nadi	1.807	PA-8.1/BR-2.3	8.1			Sand	Proposed
D1	GHODAHADA	BHALIAJHOLA SAND SOURCE BHALIAJHOLA, Khata No-527, Plot No-3588, Kissam- Nadi (84°35'39.84"19°27'6.12", 84°36'5.40"19°27'23.40")	5	PA-4.3/BR-1.3	4.3		50400	Sand	Existing
D2	GHODAHADA	LUNINATHI SAND BED At:- LUNINATHI,Khata No-170, Plot No- 1539, Kissam- River(84°33'36.87" 19°25'31.34", 84°34'0.17" 19°25'39.19")	3.44	PA-1/BR-1.3	1		47380	Sand	Existing
D3	GHODAHADA	KHALINGI SAND SOURCE At:- KHALINGI,Khata No-1186, Plot No- 1917, Kissam- Nadi (84°39'21.40" 19°26'26.63", 84°39'39.30" 19°26'7.04")	5	PA-6/BR-1.2	6		56682	Sand	Existing
D4	GHODAHADA	ERENDRA SAND SOURCE At-ERENDRA,Khata No-860, Plot No- 636, Kissam- Nadi (84°37'52.94" 19°27'10.30", 84°37'52.70" 19°27'8.11")	4.197	PA-6.7/BR-0.9	6.7		42716	Sand	Existing
D5	GHODAHADA	MOULABHANJA SAND SOURCE At- MOULABHANJA,Khata No-1505, Plot No- 4156, Kissam- Nadi (Longitude-84°31'20.05" Latitude-19°23'47.60") to (Longitude-84°31'30.16" Latitude-19°23'56.81")	3.817	PA-1.5/BR-0.8	1.5		57255	Sand	Existing
D6	GHODAHADA	SUNDHIPALLI SAND SOURCE , SUNDHIPALLI,Khata No-545(AAA), Plot No- 389, Kissam- Nadi (Longitude-84°33'1.80" Latitude-19°24'43.56") to (Longitude-84°33'12.96" Latitude-19°24'54.36")	2.573	PA-2.36/BR-5.2	2.36			Sand	Existing
D7	GHODAHADA	KHOLADI SAND SOURCE , KHOLADI,Khata No-337 (AAA), Plot No- 910, Kissam- Nadi (Longitude-84°33'5.90" Latitude-19°25'11.10") to (Longitude-84°32'0.50"Latitude-19°25'7.20")	5	PA- 13.98/BR-3.9	13.98			Sand	Existing

D8	GHODAHADA	KARAKHANDI,GHODAHADA, KANAKARADA,Khata No-786, Plot No- 4011, Kissam- Nadi (Longitude-84°40'24.24" Latitude-19°26'29.04") to (Longitude-84°40'39.00"Latitude-19°27'4.68")	4.534	PA-4.99/BR-0.82	4.99			Sand	Existing
D9	GHODAHADA	DHARMARAYPUR SAND SOURCE , DHARMARAYAPUR,Khata No-458, Plot No-2110,2112,1899 & 2092(1.280, 4.451, 3.095 & 4.939), Kissam- Nadi (Longitude-84°36'3.57" Latitude-19°27'20.79") to (Longitude-84°36'4.70"Latitude-19°27'22.59")	13.765	PA-3.85/BR-1.69	3.85			Sand	Existing
D10	GHODAHADA	AMBAGAM SAND SOURCE , AMBAGAM,Khata No-217(AAA), Plot No- 1,461 & 199/1152, (3.375, 2.262 & 5.645)Kissam- Nadi (Longitude-84°31'57.00" Latitude-19°25'0.84") to (Longitude-84°32'24.72"Latitude-19°25'12.72")	11.282	PA-1.1/BR-2.19	1.1			Sand	Existing
E1	RUSHIKULYA	HANSAPUR AT-HANSAPUR, Khata No-503, Plot No-1764/2119, 276/2123, 1764/2121 & 03/2118 Kissam-Nadi (Longitude-84°59'55.2" Latitude-19°24'49.0") to (Longitude-85°00'49.9" Latitude-19°25'40.9")	5.109	PA-3.6/BR-1.7	3.6		61200	Sand	Existing
E2	RUSHIKULYA	POTLAMPUR AT-POTLAMPUR, Khata No-282, Plot No- 279/1054, Kissam- Nadi (Longitude-84°59'34.01" Latitude-19°26'18.08") to (Longitude-84°59'36.3" Latitude-19°26'20.6")	6.07	PA-1.09/BR-1.5	1.09		72840	Sand	Existing
E3	RUSHIKULYA	BARANGA AT-BARANGA, Khata No-463, Plot No-962/1943, Kissam- Nadi (Longitude-84°58'9.07" Latitude-19°26'46.8") to (Longitude-84°58'14.8" Latitude-19°26'47.0")	6.07	PA-1.7/BR-3.8	1.7		72840	Sand	Existing
E4	RUSHIKULYA	BADAMADHAPUR Vill-BADAMADHAPUR Khata No-1399, Plot No- 909/7520, Kissam- Nadi (Longitude-84°58'9.06" Latitude-19°27'41.6") to (Longitude-84°58'07.5" Latitude-19°27'47.8")	6.07	PA-1/BR-5.1	1		72840	Sand	Existing
E5	RUSHIKULYA	Gova Sand Vill-GOVA, Vill-GOVA, Khata No-836, Plot No- 110, Kissam- Nadi Longitude- 19.5 Latitude-84.944	5	PA-3.01/ BR-4.65	3.01		50000	Sand	Proposed
F1	RUSHIKULYA	ALLIABAD Vill-ALLIABAD Khata No-610, Plot No-328/1310 , Kissam- Nadi (Longitude-85°01'48.65" Latitude-19°23'36.40") to (Longitude-85°01'56.55" Latitude-19°23'45.03")	5.058	PA-5.8/BR-0.7	5.8		81460	Sand	Existing
F2	RUSHIKULYA	SRIBANA AT-SRIBANA, Khata No-175, Plot No- 427, Kissam- Nadi (Longitude-85°0'44.06" Latitude-19°24'57.03") to (Longitude-85°00'58.44" Latitude-19°25'11.26")	5.059	PA-3.6/BR-1.7	3.6		137600	Sand	Existing
F3	RUSHIKULYA	BAHALPUR AT-BAHALPUR, Khata No-356, Plot No-946/1250, Kissam- Nadi (Longitude-85°00'26.65" Latitude-19°25'14.16") to (Longitude-85°00'41.34" Latitude-19°25'22.26")	5.059	PA-1.9/BR-1.0	1.9		101160	Sand	Existing

F4	RUSHIKULYA	SRIBANABATIMALA AT-SRIBANABATIMALA, Khata No-873, Plot No- 554/2950, Kissam- Nadi (Longitude-85°01'34.84" Latitude-19°24'49.38") to (Longitude-85°01'26.27" Latitude-19°24'40.43")	5.261	PA-2.9/BR-2.7	2.9		75820	Sand	Existing
F5	RUSHIKULYA	Damodarpur Sand Quarry, AT- Damodarpur, Khata No-189, Plot No-262, Kissam- Nadi	5	PA-7.31/BR-0.54	7.31			Sand	Existing
F6	RUSHIKULYA	Bajrakote-1 Sand Quarry, AT- Bajrakote, Khata No-38, Plot No-9, Kissam- Nadi	5	PA-5.66/BR-2.3	5.66			Sand	Existing
F7	RUSHIKULYA	Bajrakote-2 Sand Quarry, AT- Bajrakote, Khata No-38, Plot No-197, Kissam- Nadi	5	PA-5.43/BR-2.02	5.43			Sand	Existing
F8	Rushykulya	Barapalli Sand Quarry, AT- barapalli, Khata No-569, Plot No-1715 &1716 , Kissam- Nadi	7.97	PA-7.02/BR-6.34	7.02			Sand	Existing
G1	RUSHIKULYA	Long term lease of sand bed,kharida AT- kharida, Khata No-554, Plot No- 4553/1 & 4532/1, Kissam- Nadi (Longitude-84°46'35.82" Latitude-19°29'48.79") to (Longitude-84°46'43.72" Latitude-19°30'00.70")	5.261	PA-1.5/BR-2.6	1.5		48729	Sand	Existing
H1	Rushykulya	Burutulu Sand bed, AT- Burutulu, Khata No-186, Plot No-901, Kissam- Nadi LAT- 19.506 LONG-84.834	4.047	PA-12.15, BR-3.38	12.15		25500	Sand	Existing
H2	Rushykulya	Balia Sand, AT- Balia, Khata No-1054 & 786, Plot No-2605 & 1 , Kissam- Nadi LAT-19.493 LONG-84.952	5.2003	PA-3.59, BR-5.98	3.59			Sand	Existing
H3	Rushykulya	Kanaka Sand Bed AT-Kanaka, Khata No-472, Plot No- 865, 865/1012 & 785/1013, Kissam- Nadi(Longitude-84°51'9.09" Latitude-19°30'22.23") to (Longitude-84°51'10.73" Latitude-19°30'15.84")	31.21	PA- 5.53, BR-1.35	5.53	YES	564525	Sand	Existing
H4	Rushykulya	BHIMPUR SAND BED AT- BHIMPUR, Khata No-640, Plot No- 1320, Kissam- Nadi(Longitude-84°50'59.00" Latitude-19°30'22.67") to (Longitude-84°50'59.00" Latitude-19°30'17.07")	4.219	PA- 5.8, BR-1.71	5.8	YES	90798	Sand	Existing
H5	Rushykulya	MahaChai Sand Source AT- MAHACHAI, Khata No-664, Plot No- 2610, Kissam- Nadi(Longitude-84°45'42.43" Latitude-19°30'52.34")	10.83	PA- 4.13, BR-2.87	4.13			Sand	Proposed
H6	Rushykulya	Handi Ghara sand bed, AT- HANDIGHARA, Khata No-660, Plot No- 1739, Kissam- Nadi LAT-19.495 LONG-84.91	18.023	PA-7.74, BR-0.55	7.74			Sand	Proposed
H7	Rushykulya	Morabai Sand, AT- MORABAI, Khata No-380 Plot No-1209 , Kissam- Nadi (Longitude- Latitude- to (Longitude-19.501 Latitude-84.825)	12.355	PA-12.15, BR-3.38	12.15			Sand	Proposed
H8	Rushykulya	Achuli Sand bed, AT- ACHULI, Khata No-409, Plot No-617,618,1022 , Kissam- Nadi Longitude-19.497 ,Latitude-84.899	8.16	PA- 8.8, BR-0.74	8.8			Sand	Proposed

Q1	Rusikulya	Bhetasingi Sand Source, AT-BHETASINGI Khata No-293(AAA),Plot No-1229/1384/A, KISSAM-NADI (Latitude-19°31'44.40" N LONGITUDE-84°44'58.95" E)	4.532	PA-19.53/BR-1.00	19.53			Sand	Proposed
I1	Barha River	Dhanjia Sand Bed Mouza-Dhanjia ,Khata-851, Plot-531, 522 , Kissam-, Lat-19°42'30.1"- 19°42'39.3", Long-84°40'50.0"- 84°40'59.2"	4.856	PA-17.62/BR-4.74	17.62		97124	Sand	Existing
I2	Barha River	Bangarada Sand Bed Mouza-Bangarada ,Khata-1429, Plot-3842 , Kissam-, Lat-19°45'49.8"- 19°46'03.30", Long-84°39'37.7" - 84°39'48.4"	4.856	PA-16.86/BR-2.2	16.86		97124	Sand	Existing
I3	Barha River	Gahangu Sand Bed Mouza-Bangarada ,Khata-1254, Plot-1 , Kissam-, Lat-18°49'33.49"- 18°49'25.46", Long-84°10'07.38"-84°10'00.28"	4.856	PA-16.35/BR-1.78	16.35		121405	Sand	Existing
I4	Barha River	Jagadapur Sand Bed Mouza-Bangarada ,Khata-466, Plot-337,194 , Kissam-, Lat-19°40'27.25"- 19°40'43.78", Long-84°39'15.40"- 84°39'22.42"	4.856	PA-18.95/BR-0.46	18.95		49704	Sand	Existing
I5	Barha River	Narasingapalli sand BedMouza-Bangarada ,Khata-109, Plot-1 , Kissam-, Lat-19°35'56.13"- 19°36'15.06", Long-84°40'39/79"- 84°40'47.56"	4.856	PA-18.58/BR-0.68	18.58		65920	Sand	Existing
I6	Rushikulya River	Mangalapur Sand Bed Mouza-Bangarada ,Khata-1522, Plot-3025,3348 , Kissam-, Lat-19°37'50.9"- 19°37'57.4", Long-84°36'48.0"-84°36'59.5"	4.856	PA-23.8/BR-6.5	23.8		48560	Sand	Existing
I7	Rushikulya River	Padhal Sand Bed AT-Padhal, Khata No-354, Plot No- 1946 , Kissam- Nadi	4.651	PA-19.99/BR-2.5	19.99		NA	Sand	Proposed
I8	Rushikulya River	Kendupadar Sand Bed AT-Kendupadar, Khata No-611, Plot No- 610,1265 , Kissam- Nadi	4.451	PA-19.2/BR-1.18	19.2		NA	Sand	Proposed
I9	Bada nadi	Nirala Sand Bed AT-Nirala, Khata No-316, Plot No-1791 , Kissam- Nadi	4.653	PA-18.87/BR-3.61	18.87		NA	Sand	Proposed
I10	Rushikulya River	Khadabhaga Sand Bed AT-KHADABHAGA, Khata No-504(AAA), Plot No- 908, Kissam- Nadi	4.653	PA-19.97/BR-2.41	19.97		NA	Sand	Proposed
J1	Barha River	Bishnuchakra Sand BedMouza-Bishnuchakra ,khata-913, Plot- 4045,kissam-,Lat-19°45'38.37"- 19°45'45.95", Long-84°45'58.18"- 84°40'05.05"	1.43	PA-15.8/BR-1.65	15.8		NA	Sand	Existing
K1	Barha River	Bhereda Sand Bed Mouza-Bhereda ,khata-360, Plot-315, 662/P,kissam-,Lat-19°56'10.28"- 19°56'43.87Long- 84°36'24.65"- 84°36'49.93"	4.947	PA-1.42/BR-1.74	1.42		50046	Sand	Existing
K2	Barha River	Baruda Sand bed Mouza-Baruda ,khata-723,, Plot-1617/A,kissam-Lat-19°59'28,50"- 19°59'39.13"Long- 84°37'47.14"- 84°37'55.36"	2.434	PA-1.41/BR-0.58	1.41		38080	Sand	Existing
K3	Lohorkhandi River	Badakodanda-I Sand Bed Mouza- Badakodanda ,khata-1430 ,, Plot-3625/A,kissam-Lat-Long-19°56'21.53"- 19°56'25.93" 87°33'56.62"- 84°34'10.75"	3.258	PA-3.67/BR-0.69	3.67	YES	34500	Sand	Existing

K4	Lohorkhandi River	Gamundi Sand Bed Mouza- ,khata-999,339,kissam-, Plot-203/A,703/A,Lat-19°55'05.96"-91°55'20.70", Long- 84°35'19.52"- 84°35'39.17"	4.937	PA-5.39/BR-0.86	5.39		68040	Sand	Existing
K5	Lohorkhandi River	Badakodanda- II Sand Bed Mouza-Badakodanda ,khata-1430, Plot-1991, kissam-,Lat-Long-84°32'19.15"- 84°32'58.07"	4.998	PA-2.4/BR-0.17	2.4	YES	24383	Sand	Existing
L1	Barha River	Nuagam Sand Bed AT-Nuagam, Khata No-969, Plot No- 125,292,291, Kissam- Nadi Lat-19.924, Long-84.602	4.999	PA-3.32/BR-0.82	3.32		NA	Sand	Existing
L2	Barha River	Benipali Sand Bed Mouza-Benipalli ,khata-859, Plot-210,211,kissam-, Lat-20°50'35.11"- 20°51'00.95", Long- 84°37'29.19"- 84°37'35.73"	6.283	PA-8.66/BR-0.36	8.66	YES	77730	Sand	Existing
L3	Barha River	Banka Sand Bed Mouza-Banka ,khata-852, Plot-2047,kissam-, Lat-19°49'30.60" - 19°49'44.77", Long-84°37'28.13"- 84°37'35.28"	4.37	PA-7.65/BR-3.2	7.65		44084	Sand	Existing
L4	Barha River	Suramani Sand Bed Mouza- Suramani,khata-232,Plot-659, 1/1725,kissam-, Lat- 19°48'35.62"-19°48'57.34"Long- 84°37'47.25"- 84°37'54.87"	5.038	PA-8.79/BR-4.65	8.79		40630	Sand	Existing
L5	Barha River	Girisola Sand Bed Mouza- Girisola,khata-970, Plot-1,kissam-, Lat-19°50'23.10"- 19°50'45.20", Long-84°37'32.80"- 84°37'44.70"	6.161	PA-7.42/BR-1.09	7.42	YES	41954	Sand	Existing
L6	Barha River	Kokolunda Sand Bed Mouza-Kokolunda ,khata-483, Plot-2141/2158,kissam-, Lat-19°50'23.10"-19°50'45.20"Long- 84°38'50.14"- 84°29'02.28"	5.413	PA-8.66/BR-1.06	8.66		NA	Sand	Existing
L7	Barha River	Ambapua Sand Bed Mouza-Ambapua ,khata-694, Plot-71/2179, 71, 1289,kissam-, Lat-19°42'31.39"-19°51'48.82", Long- 84°38'23.25"- 84°39'19.60"	6.377	PA-16.73/BR-0.53	16.73		49457	Sand	Existing
M1	Barha River	Kandarasing Sand Bed Mouza-Kandarasing ,khata-567, Plot-3222,3112,3119,2794,2268 ,kissam-, Lat-19°54'16.19"- 19°54'36.46", Long- 84°43'18.57"-84°43'42.15"	12.106	PA-12.42/BR-1.32	12.42		242120	Sand	Existing
M2	Barha River	Sorisamuli Sand Bed Mouza-Sorisamuli ,khata- 283, Plot-973,kissam-, Lat-19°53'16.80"- 19°53'28.28" Long- 84°41'56.93"- 84°42'12.65"	4.452	PA-12.87/BR-0.9	12.87		26593	Sand	Existing
M3	Barha River	Tentulia Sand Bed Mouza-Tentulia ,khata-344, Plot-2043,kissam-, Lat-19°53'49.48"-19°53'58.58"Long- 84°42'39.82"- 84°42'46.16"	4.696	PA-13.24/BR-0.7	13.24		14344	Sand	Existing
M4	Barha River	Nimapadar Sand Bed Mouza-Nimapadara,khata-1472, Plot-744,kissam-, Lat-19°52'55.46"- 19°53'3.12", Long- 84°41'13.46"-84°41'29.60"	4.401	PA-13.33/BR-1.09	13.33		25688	Sand	Existing
N1	Rushikulya River	Santoshpur Sand bed Mouza- Santoshpur,khata-417, Plot-45,kissam-, Lat-19°32'01.85"- 19°32'01.86", Long-84°44'01.99"- 84°44'13.94"	4.856	PA-19.53/BR-1.00	19.53		83654	Sand	Existing

N2	Rushikulya River	Pakidi Sand bed Mouza-Pakidi ,khata-507, Plot-1,kissam-, Lat-19°33'08.55" - 19°33'31.43" Long-84°42'09.61"-84°42'25.91"	11.623	PA-20.09/BR-1.1	20.09		303960	Sand	Existing
O1	Rushikulya River	G.P. Sasan Sand Bed Mouza- G.P. Sasan,khata-271, Plot-1501,kissam-, Lat-19°45'25.92"-19°45'35.17", Long- 84°27'03.73"- 84°27'17.06"	4.996	PA-2.26/BR-2.04	2.26		22834	Sand	Existing
P1	Rushikulya River	Kapilash Sand Bed Mouza-Kapilash ,khata-201, Plot-391,kissam-, Lat-19°38'52.41"- 19°29'11.89", Long- 84°35'22.36"- 84°35'37.34"	5.518	PA-2.61/BR-1.8	2.61		47028	Sand	Existing
P2	Rushikulya River	Pankalbadi - B Sand Bed Mouza-Pankalabadi ,khata-319, Plot-1837,2231,kissam-, Lat-19°36'23.47"- 19°36'27.53", Long- 84°38'20.24"- 84°38'38.68"	5.132	PA-24.5/BR-2.9	24.5		54229	Sand	Existing
P3	Rushikulya River	Laxmipur Sand Bed Mouza-Laxmipur ,khata-189, Plot-302, 580(P),kissam-, Lat-19°37'06.32"- 19°37'23.04"Long- 84°37'13.58"-84°37'20.96	5.244	PA-25.51/BR-6.2	25.51		54503.5	Sand	Existing
P4	Rushikulya River	Jahada Sand Bed Mouza- Jahada,khata-861, Plot-5680 ,5681,kissam-, Lat-19°40'41.98"- 19°40'51.90", Long- 84°33'37.19"- 84°33'53.23"	7.603	PA-5.12/BR-3.4	5.12		46452	Sand	Existing

Patta Lands/Khatedari Land: (existing & proposed)

Owner	Sy. No	Area	District	Tehsil	Village	Total Reserve (MT)	Total Mineral to be mined (MT)	Existing /Proposed
NA	NA	NA	NA	NA	NA	NA	NA	NA

De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed)

Name of Reservoir/Dams	Maintain /Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size (Ha)	Quantity MT/Year	Existing /Proposed
NA	NA	NA	NA	NA	NA	NA	NA	NA

M-Sand Plants:(existing & proposed)

Plant Name	Owner	District	Tehsi	Village	Geo- location	Quantity Tonnes/Annum	Existing/Proposed
NA	NA	NA	NA	NA	NA	NA	NA

Cluster & Contiguous Cluster details

Clusters:

River Name	Cluster No.	Lease No	Location (Riverbed / Patta Land)	Village	Area (in Ha)	Total Excavation (CuM)	Total Mineral Excavation (CuM)
Rushykulya	1	H3	Kanaka Sand Bed, AT-Kanaka, Khata No-472, Plot No-865, 865/1012 & 785/1013, Kissam- Nadi(Longitute-84°51'9.09" Lattitute-19°30'22.23") to (Longitute-84°51'10.73" Lattitute-19°30'15.84")	Kanaka	31.21	564525	338715
Rushykulya		H4	Bhimpur Sand Bed, AT- BHIMPUR, Khata No-640, Plot No- 1320, Kissam- Nadi(Longitute-84°50'59.00" Lattitute-19°30'22.67") to (Longitute-84°50'59.00" Lattitute-19°30'17.07")	BHIMPUR	4.219	90798	54478.8
Loharakhandi	2	K3	Badakodanda River Bed -I Mouza- Badakodanda ,khata-1430 ,, Plot-3625/A,kissam- NadiLat-Long-19°56'21.53"-19°56'25.93" 87°33'56.62"- 84°34'10.75"	Badakodanda	3.258	34500	20700
Loharakhandi		K5	Badakodanda River Bed -II Mouza-Badakodanda ,khata-1430, Plot-1991, kissam- Nadi,Lat-19°56'21.53"-91°56'25.93", Long-84°32'19.15"- 84°32'58.07"	Badakodanda	4.958	24383	14629.8
Bada Nadi	3	L2	Benipalli Sand Bed Mouza-Benipalli ,khata-859, Plot-210,211,kissam- Nadi, Lat-19°50'35.11"-19°51'00.95", Long- 84°37'29.19"-84°37'35.73"	Benipalli	6.283	77730	46638
Bada Nadi		L5	Girisola Sand Bed Mouza- Girisola,khata-970, Plot-1,kissam- Nadi, Lat-19°50'23.10"- 19°50'45.20", Long-84°37'32.80"- 84°37'44.70"	Girisola	6.161	41954	25172.4

Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed/ Patta Land)	Distance between clusters	Village	Area of Cluster (Ha)	Total Mineral Excavation. (Ton)
NA	NA	NA	NA	NA	NA	NA	NA	NA

Transportation Routes for individual leases and leases in Cluster

Lease No.	Transportation Route No.	Number of tippers/day of lease	Number of tippers/day of all the lease on route	Length of route in KM	Type of road(Black Topped/unpaved)	Recommendation for road (Black Topped/unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
A1	Chadiapada Sand Quarry At:- CHADIAPADA, Khata No-631, Plot No- 1 & 1079, Kissam- Nadi (84°31'13.00" 19°14'16.80", & 84°31'9.30" 19°14'17.80")			7.44	Black Topped	Black Topped	Govt	CHADIAPADA, SH-29-7.44
A2	PARASAMBA SAND QUARRY At:- Parasama, Khata No-407, Plot No- 1 & 177, Kissam- Nadi (84°34'8.50" 19°12'31.20", 84°34'6.50" 19°12'33.30")	1	5	2.88	Black Topped	Black Topped	Govt	PARASAMA, SH-29-2.88
A3	K.NUAGAM SAND QUARRY At:- KAMPA NUAGAM, Khata No-401, Plot No- 4,531,2206 Kissam- Nadi (84°33'12.47" 19°13'42.73", 84°33'42.11" 19°12'55.04")	2		0.95	Black Topped	Black Topped	Govt	KAMPA NUAGAM, SH-29-0.95
A4	SUNDARADA SAND QUARRY At:- SUNDRAUDABIRA CHAITANYAPUR SASANA, Khata No-223, Plot No-1059 Kissam- Nadi (84°30'38.20" 19°14'13.90", 84°30'38.80" 19°14'11.00")	2		8.35	Black Topped	Black Topped	Govt	SUNDRAUDABIRA CHAITANYAPUR SASANA, SH-29-8.35
A5	KALABADA SAND QUARRY -I At:- KALABADA , Khata No-525, Plot No- 1 & 2395 Kissam- Nadi(84°35'37.00" 19°9'21.80", 84°35'36.00" 19°9'18.80")	1		4	0.95	Black Topped	Black Topped	Govt
A6	KALABADA SAND QUARRY -II At:- KALABADA , Khata No-525, Plot No- 2395 Kissam- River (84°35'36.10" 19°9'24.50", 84°35'40.30" 19°9'25.10")	1	0.63		Black Topped	Black Topped	Govt	KALABADA , SH-22-0.63
A7	CHILADI SAND QUARRY-I At:-CHILADI , Khata No-462, Plot No- 2369/2958 & 2179, Kissam- Nadi (84°35'32.17" 19°10'27.99", 84°35'30.58" 19°10'6.78")	1	1.21		Black Topped	Black Topped	Govt	CHILADI, SH-22-1.21
A8	CHILADI SAND QUARRY-II At:- CHILADI, Khata No-462, Plot No- 15/2957, Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")	1	1.76		Black Topped	Black Topped	Govt	CHILADI, SH-22-1.76
A9	BADA BARANGA SAND QUARRY -II , At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")			0.93	Black Topped	Black Topped	Govt	BADABARANGA, SH-22-0.93

A10	BADA BARANGA SAND QUARRY -I, At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'50.64" 19°9'1.08", 84°35'59.28"19°9'28.44")	SH-22			1.94	Black Topped	Black Topped	Govt	BADABARANGA, SH-22-1.94
A11	BHOLASINGI SAND QUARRY , At:- BHOLASINGI, Khata No-378, Plot No-1556 , Kissam- Nadi (84°35'7.80" 19°11'20.40", 84°35'31.56"19°11'31.92")	SH-22			2.4	Black Topped	Black Topped	Govt	BHOLASINGI, SH-2.4
B1	TENTUAPADA-A SAND QUARRY TENTUAPADA Khata No-324 & 1666, Plot No- 1603,1665 & 1666, Kissam- Nadi (84°32'9.70" 19°14'12.10", 84°32'10.20" 19°14'8.50")	SH-29	1	3	2.2	Black Topped	Black Topped	Govt	TENTUAPADA, SH-2.2
B2	CHAITANYA PRASAD SAND QUARRY CHAITANYA PRASAD Khata No-125, Plot No- 1130, Kissam- Nadi (84°32'21.60" 19°14'46.40", 84°32'22.10" 19°14'43.70")	SH-29	1		1.96	Black Topped	Black Topped	Govt	CHAITANYA PRASAD, SH-29
B3	DHANARASI SAND QUARRY DHANRASI Khata No-276, Plot No- 1 & 28, Kissam- Nadi (84°31'12.00" 19°14'4.00", 84°31'19.70" 19°14'3.50")	SH-29	1		4.12	Black Topped	Black Topped	Govt	DHANRASI,SH-29-4.12
B4	KALINGADOLA SAND QUARRY KALINGADOLA, Khata No-270, Plot No- 575, Kissam- Nadi (84°32'57.12"19°13'37.56", 84°33'16.20" 19°13'55.20")	SH-29			1.5	Black Topped	Black Topped	Govt	KALINGADOLA,SH-29-1.5
B5	JALAMERIPALLI SAND QUARRY Jalameripalli, Khata No-327, Plot No-1488, Kissam- Nadi (84°29'49.50" 19°22'58.70", 84°30'1.60" 19°22'58.60")	NH-326	1	2	6.2	Black Topped	Black Topped	Govt	JALAMERIPALLI, NH-326-6.2
B6	GOUDAGAM SAND QUARRY , GOUDAGAM, Khata No-844, Plot No-1917,1908 & 1848, (2.327, 2.239 & 1.790 Ha) Kissam- Nadi (84°29'1.20"19°13'22.90", 84°29'1.20"19°13'23.90")	NH-326	1		6.45	Black Topped	Black Topped	Govt	GOUDAGAM, NH-326-6.45
B7	CHASANIMAKHANDI SAND QUARRY , CHASANIMAKHANDI, Khata No-1004, Plot No-1535 & 1427,(7.042 & 6.026) Kissam- Nadi (84°28'33.40"19°21'40.00", 84°28'33.80"19°21'40.10")	NH-326			9.2	Black Topped	Black Topped	Govt	CHASANIMAKHANDI, NH-326-9.2
B8	Phasiguda Sand Quarry-1 , PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi LAT- 19.392 LONG-84.507	NH-326	1	1	4.6	Black Topped	Black Topped	Govt	PHASIGUDA,NH-326-4.6
B9	PHASIGUDA SAND QUARRY ,PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi (84°30'8.26"19°23'25.75", 84°30'14.80"19°23'36.29")	SH-29			5.5	Black Topped	Black Topped	Govt	PHASIGUDA,SH-29-5.5
B10	TENTUAPADA-B SAND QUARRY , TENTUAPADA, Khata No-324, Plot No-2084, Kissam- Nadi (84°32'25.42"19°14'15.63",84°32'25.74"19°14'11.33")	SH-29			2.4	Black Topped	Black Topped	Govt	TENTUAPADA, SH-29-2.4
B11	BAJRAGUMMA SAND QUARRY , BAJRAGUMMA, Khata No-245, Plot No-694 & 695, Kissam- Nadi (84°28'29.28"19°11'33.00"84°28'41.52"19°11'49.56")	SH-29			12.28	Black Topped	Black Topped	Govt	BAJRAGUMMA, SH-29-12.28

C1	Nadigam Sand Quarry NADIGAM, Khata No-520, Plot No-682& 684, Kissam- Nadi (84°34'28.93" 19°11'43.08", 84°34'53.78" 19°11'57.11")	SH-29			2.8	Black Topped	Black Topped	Govt	NADIGAM, SH-29-2.8
C2	KOLIALA SAND QUARRY KOLIALA, Khata No-530, Plot No-1444, Kissam- Nadi (84°33'48.40" 19°12'53.18", 84°33'47.85" 19°12'51.45")	SH-29			1.58	Black Topped	Black Topped	Govt	KOLIALA, SH-29-1.58
C3	KHARNIPADA SAND QUARRY KHARANIPADA, Khata No-777, Plot No-1098, Kissam- Nadi (84°34'9.92" 19°12'14.34", 84°34'9.03" 19°12'12.70")	SH-29	1	1	2.29	Black Topped	Black Topped	Govt	KHARANIPADA, SH-29-2.29
C4	Bhimapura sand Quarry-1 , Bhimapura, Khata No-503, Plot No-1(Area 12.750 Ac) & 18(Area 5.00Ac), Kissam- Nadi LAT- 19.14 LONG- 84.587	SH- 22			3.2	Black Topped	Black Topped	Govt	Bhimapura, SH-22-3.2
C5	Bhimapura sand Quarry-2, Bhimapura, Khata No-506, Plot No-174(Area 14.875 Ac) Kissam- Nadi LAT- 19.139 LONG- 84.601	SH- 22			4.6	Black Topped	Black Topped	Govt	Bhimapura, SH-22-4.6
C6	Budagada, Bhimapura, Khata No-253, Plot No-553(Area 2.765 Ac),Plot No-1398(Area 0.588 Ac) &Plot No-1397(Area 1.213 Ac) Kissam- Nadi	SH-22			2.9	Black Topped	Black Topped	Govt	Bhimapura, SH-22-2.9
D1	BHALIAJHOLA SAND SOURCE BHALIAJHOLA, Khata No-527, Plot No-3588, Kissam- Nadi (84°35'39.84"19°27'6.12", 84°36'5.40"19°27'23.40")	NH-326	1	6	1.2	Black Topped	Black Topped	Govt	BHALIAJHOLA, NH-326-1.2
D2	LUNINATHI SAND BED At:- LUNINATHI,Khata No-170, Plot No- 1539, Kissam- River(84°33'36.87" 19°25'31.34", 84°34'0.17" 19°25'39.19")	NH-326	1		3.6	Black Topped	Black Topped	Govt	LUNINATHI, NH-326-3.6
D3	KHALINGI SAND SOURCE At:- KHALINGI,Khata No-1186, Plot No- 1917, Kissam- Nadi (84°39'21.40" 19°26'26.63", 84°39'39.30" 19°26'7.04")	NH-326	2		18.5	Black Topped	Black Topped	Govt	KHALINGI, NH-326-18.5
D4	ERENDRA SAND SOURCE At-ERENDRA,Khata No-860, Plot No- 636, Kissam- Nadi (84°37'52.94" 19°27'10.30", 84°37'52.70" 19°27'8.11")	NH-326	1		6.2	Black Topped	Black Topped	Govt	ERENDRA, NH-326-6.2
D5	MOULABHANJA SAND SOURCE At- MOULABHANJA,Khata No-1505, Plot No- 4156, Kissam- Nadi (Longitude-84°31'20.05" Latitude-19°23'47.60") to (Longitude-84°31'30.16" Latitude-19°23'56.81")	NH-326	1		1.3	Black Topped	Black Topped	Govt	MOULABHANJA, NH-326-1.3
D6	SUNDHIPALLI SAND SOURCE , SUNDHIPALLI,Khata No-545(AAA), Plot No- 389, Kissam- Nadi (Longitude-84°33'1.80" Latitude-19°24'43.56") to (Longitude-84°33'12.96" Latitude-19°24'54.36")	NH-326			3.4	Black Topped	Black Topped	Govt	SUNDHIPALLI, NH-326-3.4
D7	KHOLADI SAND SOURCE , KHOLADI,Khata No-337 (AAA), Plot No- 910, Kissam- Nadi (Longitude-84°33'5.90" Latitude-19°25'11.10") to (Longitude-84°32'0.50"Latitude-19°25'7.20")	NH-326			7.8	Black Topped	Black Topped	Govt	KHOLADI, NH-326-7.8

D8	KARAKHANDI,GHODAHADA, KANAKARADA,Khata No-786, Plot No- 4011, Kissam- Nadi (Longitude-84°40'24.24" Latitude-19°26'29.04") to (Longitude-84°40'39.00"Latitude-19°27'4.68")	NH-59			11.2	Black Topped	Black Topped	Govt	KANAKARADA, NH-59-11.2
D9	DHARMARAYPUR SAND SOURCE , DHARMARAYAPUR,Khata No-458, Plot No-2110,2112,1899 & 2092(1.280, 4.451, 3.095 & 4.939), Kissam- Nadi (Longitude-84°36'3.57" Latitude-19°27'20.79") to (Longitude-84°36'4.70"Latitude-19°27'22.59")	NH-326			2.83	Black Topped	Black Topped	Govt	DHARMARAYAPUR, NH-326-2.83
D10	AMBAGAM SAND SOURCE , AMBAGAM,Khata No-217(AAA), Plot No- 1,461 & 199/1152, (3.375, 2.262 & 5.645)Kissam- Nadi (Longitude-84°31'57.00" Latitude-19°25'0.84") to (Longitude-84°32'24.72"Latitude-19°25'12.72")	NH-326			3.3	Black Topped	Black Topped	Govt	AMBAGAM, NH-326-3.3
E1	HANSAPUR AT-HANSAPUR, Khata No-503, Plot No-1764/2119, 276/2123, 1764/2121 & 03/2118 Kissam-Nadi (Longitude-84°59'55.2" Latitude-19°24'49.0") to (Longitude-85°00'49.9" Latitude-19°25'40.9")	NH-16			12.2	Black Topped	Black Topped	Govt	HANSAPUR, NH-16-12.2
E2	POTLAMPUR AT-POTLAMPUR, Khata No-282, Plot No- 279/1054, Kissam- Nadi (Longitude-84°59'34.01" Latitude-19°26'18.08") to (Longitude-84°59'36.3" Latitude-19°26'20.6")	NH-31			3.67	Black Topped	Black Topped	Govt	POTLAMPUR, SH-31-3.67
E3	BARANGA AT-BARANGA, Khata No-463, Plot No-962/1943, Kissam- Nadi (Longitude-84°58'9.07" Latitude-19°26'46.8") to (Longitude-84°58'14.8" Latitude-19°26'47.0")	SH-31			13.2	Black Topped	Black Topped	Govt	BARANGA, SH-31-13.2
E4	BADAMADHAPUR Vill-BADAMADHAPUR Khata No-1399, Plot No- 909/7520, Kissam- Nadi (Longitude-84°58'9.06" Latitude-19°27'41.6") to (Longitude-84°58'07.5" Latitude-19°27'47.8")	SH-31	3	5	12.52	Black Topped	Black Topped	Govt	BADAMADHAPUR, SH-31-12.52
E5	Gova Sand Vill-GOVA, Vill-GOVA, Khata No-836, Plot No- 110, Kissam- Nadi Longitude- 19.5 Latitude-84.944	SH-31	2		3.5	Black Topped	Black Topped	Govt	GOVA, SH-31-3.5
F1	ALLIABAD Vill-ALLIABAD Khata No-610, Plot No-328/1310 , Kissam- Nadi (Longitude-85°01'48.65" Latitude-19°23'36.40") to (Longitude-85°01'56.55" Latitude-19°23'45.03")	NH-16			7.47	Black Topped	Black Topped	Govt	ALLIABAD , NH-16-7.47
F2	SRIBANA AT-SRIBANA, Khata No-175, Plot No- 427, Kissam- Nadi (Longitude-85°0'44.06" Latitude-19°24'57.03") to (Longitude-85°00'58.44" Latitude-19°25'11.26")	NH-16			8.41	Black Topped	Black Topped	Govt	SRIBANA, NH-16-8.41

F3	BAHALPUR AT-BAHALPUR, Khata No-356, Plot No-946/1250, Kissam- Nadi (Longitute-85°00'26.65" Lattitute-19°25'14.16") to (Longitute-85°00'41.34" Lattitute-19°25'22.26")	SH-31			3.84	Black Topped	Black Topped	Govt	BAHALPUR, SH-31-3.84
F4	SRIBANABATIMALA AT-SRIBANABATIMALA, Khata No-873, Plot No- 554/2950, Kissam- Nadi (Longitute-85°01'34.84" Lattitute-19°24'49.38") to (Longitute-85°01'26.27" Lattitute-19°24'40.43")	SH-31			9.47	Black Topped	Black Topped	Govt	SRIBANABATIMALA, SH-31-9.47
F5	Damodarpur Sand Quarry, AT- Damodarpur, Khata No-189, Plot No-262, Kissam- Nadi	NH-16			1.6	Black Topped	Black Topped	Govt	Damodarpur, NH-16-1.6
F6	Bajrakote-1 Sand Quarry, AT- Bajrakote, Khata No-38, Plot No-9, Kissam- Nadi	SH-31			4	Black Topped	Black Topped	Govt	Bajrakote, SH-31-4
F7	Bajrakote-2 Sand Quarry, AT- Bajrakote, Khata No-38, Plot No-197, Kissam- Nadi	SH-31			5.03	Black Topped	Black Topped	Govt	Bajrakote, SH-31-5.03
F8	Barapalli Sand Quarry, AT- barapalli, Khata No-569, Plot No-1715 & 1716, Kissam- Nadi	SH-31			5.19	Black Topped	Black Topped	Govt	Barapalli, SH-31-5.19
G1	Long term lease of sand bed,kharida AT- kharida, Khata No-554, Plot No- 4553/1 & 4532/1, Kissam- Nadi (Longitute-84°46'35.82" Lattitute-19°29'48.79") to (Longitute-84°46'43.72" Lattitute-19°30'00.70")	NH-59			6.55	Black Topped	Black Topped	Govt	kharida, NH-59-6.55
H1	Burutulu Sand bed, AT- Burutulu, Khata No-186, Plot No-901, Kissam- Nadi LAT- 19.506 LONG-84.834	SH-32	5	5	3.7	Black Topped	Black Topped	Govt	Burutulu, SH-32-3.7
H2	Balia Sand, AT- Balia, Khata No-1054 & 786, Plot No-2605 & 1, Kissam- Nadi LAT-19.493 LONG-84.952	SH-31			1.06	Black Topped	Black Topped	Govt	Balia,SH-31-1.06
H3	Kanaka Sand Bed AT-Kanaka, Khata No-472, Plot No- 865, 865/1012 & 785/1013, Kissam- Nadi(Longitute-84°51'9.09" Lattitute-19°30'22.23") to (Longitute-84°51'10.73" Lattitute-19°30'15.84")	SH-32			1.72	Black Topped	Black Topped	Govt	Kanaka, SH-32-1.72
H4	BHIMPUR SAND BED AT- BHIMPUR, Khata No-640, Plot No- 1320, Kissam- Nadi(Longitute-84°50'59.00" Lattitute-19°30'22.67") to (Longitute-84°50'59.00" Lattitute-19°30'17.07")	SH-32	2	2	2.01	Black Topped	Black Topped	Govt	BHIMPUR, SH-32-2.01
H5	MahaChai Sand Source AT- MAHACHAI, Khata No-664, Plot No- 2610, Kissam- Nadi(Longitute-84°45'42.43" Lattitute-19°30'52.34")	NH-59			9.4	Black Topped	Black Topped	Govt	MAHACHAI, NH-59-9.4
H6	Handi Ghara sand bed, AT- HANDIGHARA, Khata No-660, Plot No- 1739, Kissam- Nadi LAT-19.495 LONG-84.91	SH-31			2.51	Black Topped	Black Topped	Govt	HANDIGHARA, SH-31-2.51
H7	Morabai Sand, AT- MORABAI, Khata No-380 Plot No-1209, Kissam- Nadi (Longitute- Lattitute- to (Longitute-19.501 Lattitute-84.825)	SH-32			3.9	Black Topped	Black Topped	Govt	Morabai, SH- 3.9

H8	Achuli Sand bed, AT- ACHULI, Khata No-409, Plot No-617,618,1022, KISSAM- Nadi Longitude-19.497 ,Latitude-84.899	SH-31			1.78	Black Topped	Black Topped	Govt	ACHULI, SH-31-1.78
Q1	Bhetasingi Sand Source, AT-BHETASINGI Khata No-293(AAA),Plot No-1229/1384/A, KISSAM-NADI (Latitude-19°31'44.40" N LONGITUDE-84°44'58.95" E)	NH-59			3.6	Black Topped	Black Topped	Govt	BHETASINGI
I1	Dhanjia Sand Bed Mouza-Dhanjia ,Khata-851, Plot-531, 522, KISSAM-, Lat-19°42'30.1"- 19°42'39.3", Long-84°40'50.0"- 84°40'59.2"	SH-30	2	2	1.96	Black Topped	Black Topped	Govt	Dhanjia, SH-30-1.96
I2	Bangarada Sand Bed Mouza-Bangarada ,Khata-1429, Plot-3842, KISSAM-, Lat-19°45'49.8"- 19°46'03.30", Long-84°39'37.7"- 84°39'48.4"	SH-30			1.85	Black Topped	Black Topped	Govt	Bangarada, SH-30-1.85
I3	Gahangu Sand Bed Mouza-Bangarada ,Khata-1254, Plot-1, KISSAM-, Lat-18°49'33.49"- 18°49'25.46", Long-84°10'07.38"-84°10'00.28"	NH-157	1	7	3.76	Black Topped	Black Topped	Govt	Gahangu, NH-157-3.76
I4	Jagadapur Sand Bed Mouza-Bangarada ,Khata-466, Plot-337,194, KISSAM-, Lat-19°40'27.25"- 19°40'43.78", Long-84°39'15.40"- 84°39'22.42"	NH-157	3		1.72	Black Topped	Black Topped	Govt	Jagadapur, NH-157- 1.72
I5	Narasingapalli sand BedMouza-Bangarada ,Khata-109, Plot-1, KISSAM-, Lat-19°35'56.13"- 19°36'15.06", Long-84°40'39/79"- 84°40'47.56"	NH-157	3		0.72	Black Topped	Black Topped	Govt	Narasingapalli, NH-157- 0.72
I6	Mangalapur Sand Bed Mouza-Bangarada ,Khata-1522, Plot-3025,3348, KISSAM-, Lat-19°37'50.9"- 19°37'57.4", Long-84°36'48.0"-84°36'59.5"	NH-59	1	1	1.21	Black Topped	Black Topped	Govt	Mangalapur, NH-59-1.21
I7	Padhal Sand Bed AT-Padhal, Khata No-354, Plot No- 1946, KISSAM- Nadi	NH-157			3.85	Black Topped	Black Topped	Govt	Padhal, NH-157- 3.85
I8	Kendupadar Sand Bed AT-Kendupadar, Khata No-611, Plot No- 610,1265, KISSAM- Nadi	NH-59			1.86	Black Topped	Black Topped	Govt	Kendupadar, NH-59-1.86
I9	Nirala Sand Bed AT-Nirala, Khata No-316, Plot No-1791, KISSAM- Nadi	NH-157			1.85	Black Topped	Black Topped	Govt	Nirala, NH-157-1.85
I10	Khadabhaga Sand Bed AT-KHADABHAGA, Khata No-504(AAA), Plot No- 908, KISSAM- Nadi	NH-59			5.42	Black Topped	Black Topped	Govt	Khadabhaga, NH-59- 5.42
J1	Bishnuchakra Sand BedMouza-Bishnuchakra ,khata-913, Plot- 4045,kissam-,Lat-19°45'38.37"- 19°45'45.95", Long-84°45'58.18"- 84°40'05.05"	NH-157			4.73	Black Topped	Black Topped	Govt	Bishnuchakra, NH-157-4.73
K1	Bhereda Sand Bed Mouza-Bhereda ,khata-360, Plot-315, 662/P,kissam-,Lat-19°56'10.28"- 19°56'43.87Long- 84°36'24.65"- 84°36'49.93"	SH-37	3	6	0.54	Black Topped	Black Topped	Govt	Bhereda, SH-37-0.54
K2	Baruda Sand bed Mouza-Baruda ,khata-723,, Plot-1617/A,kissam-Lat-19°59'28,50"-19°59'39.13"Long-84°37'47.14"- 84°37'55.36"	SH-37	3		0.91	Black Topped	Black Topped	Govt	Baruda, SH- 0.91
K3	Badakodanda-I Sand Bed Mouza- Badakodanda ,khata-1430 ,, Plot-3625/A,kissam-Lat-Long-19°56'21.53"- 19°56'25.93" 87°33'56.62"- 84°34'10.75"	NH-157	1	2	2.2	Black Topped	Black Topped	Govt	Badakodanda, NH-157-2.2

K4	Gamundi Sand Bed Mouza- ,khata-999,339,kissam-, Plot-203/A,703/A,Lat-19°55'05.96"-91°55'20.70", Long- 84°35'19.52"- 84°35'39.17"	NH-157	1		1.52	Black Topped	Black Topped	Govt	Gamundi, NH-157-1.52
K5	Badakodanda- II Sand Bed Mouza-Badakodanda ,khata-1430, Plot-1991, kissam-,Lat-Long-84°32'19.15"- 84°32'58.07"	NH-157			3.45	Black Topped	Black Topped	Govt	Badakodanda, NH-157-3.45
L1	Nuagam Sand Bed AT-Nuagam, Khata No-969, Plot No- 125,292,291, Kissam- Nadi	SH-21			1.49	Black Topped	Black Topped	Govt	Nuagaon, SH-21-1.49
L2	Benipalli Sand Bed Mouza-Benipalli ,khata-859, Plot-210,211,kissam-, Lat-20°50'35.11"- 20°51'00.95", Long- 84°37'29.19"- 84°37'35.73"	NH-157	2	2	6.79	Black Topped	Black Topped	Govt	Benipalli, NH-157-6.79
L3	Banka Sand Bed Mouza-Banka ,khata-852, Plot-2047,kissam-, Lat-19°49'30.60"- 19°49'44.77", Long-84°37'28.13"- 84°37'35.28"	NH-157			9.14	Black Topped	Black Topped	Govt	Banka, NH-157-9.41
L4	Suramani Sand Bed Mouza- Suramani,khata-232,Plot-659, 1/1725,kissam-, Lat- 19°48'35.62"- 19°48'57.34"Long- 84°37'47.25"- 84°37'54.87"	NH-157			4.61	Black Topped	Black Topped	Govt	Suramani, NH-157-4.61
L5	Girisola Sand Bed Mouza- Girisola,khata-970, Plot-1,kissam-, Lat-19°50'23.10"- 19°50'45.20", Long-84°37'32.80"- 84°37'44.70"	NH-157	1	1	1.57	Black Topped	Black Topped	Govt	Girisola, NH-157-1.57
L6	Kokolunda Sand Bed Mouza-Kokolunda ,khata-483, Plot-2141/2158,kissam-, Lat-19°50'23.10"- 19°50'45.20"Long- 84°38'50.14"- 84°29'02.28"	SH-30			0.92	Black Topped	Black Topped	Govt	Kokolunda, SH-30-0.92
L7	Ambapua Sand Bed Mouza-Ambapua ,khata-694, Plot-71/2179, 71, 1289,kissam-, Lat-19°42'31.39"- 19°51'48.82", Long- 84°38'23.25"- 84°39'19.60"	NH-157	1	1	3.62	Black Topped	Black Topped	Govt	Ambapua, NH-157-3.62
M1	Kandarasing Sand Bed Mouza-Kandarasing ,khata-567, Plot-3222,3112,3119,2794,2268 ,kissam-, Lat-19°54'16.19"- 19°54'36.46", Long- 84°43'18.57"- 84°43'42.15"	SH-21	2	3	1.62	Black Topped	Black Topped	Govt	Kandarasing, SH- 21-1.62
M2	Sorisamuli Sand Bed Mouza-Sorisamuli ,khata- 283, Plot-973,kissam-, Lat-19°53'16.80"- 19°53'28.28" Long- 84°41'56.93"- 84°42'12.65"	SH-21	1		1.51	Black Topped	Black Topped	Govt	Sorisamuli, SH- 21-1.51
M3	Tentulia Sand Bed Mouza-Tentulia ,khata-344, Plot-2043,kissam-, Lat-19°53'49.48"- 19°53'58.58"Long- 84°42'39.82"- 84°42'46.16"	SH-21			1.2	Black Topped	Black Topped	Govt	Tentulia, SH- 21-1.2
M4	Nimapadara Sand Bed Mouza-Nimapadara,khata-1472, Plot-744,kissam-, Lat-19°52'55.46"- 19°53'3.12", Long- 84°41'13.46"- 84°41'29.60"	SH-21	1	1	1.63	Black Topped	Black Topped	Govt	Nimapadara, SH- 21-1.63
N1	Santoshpur Sand bed Mouza- Santoshpur,khata-417, Plot-45,kissam-, Lat-19°32'01.85"- 19°32'01.86", Long-84°44'01.99"- 84°44'13.94"	NH-59	4	12	3.6	Black Topped	Black Topped	Govt	Santoshpur, NH-59-3.6

N2	Pakidi Sand bed Mouza-Pakidi ,khata-507, Plot-1,kissam-, Lat-19°33'08.55" - 19°33'31.43" Long-84°42'09.61"-84°42'25.91"	NH-59	4		1.82	Black Topped	Black Topped	Govt	Pakidi, NH-59-1.82
O1	G.P. Sasan Sand Bed Mouza- G.P. Sasan,khata-271, Plot-1501,kissam-, Lat-19°45'25.92"-19°45'35.17", Long- 84°27'03.73"- 84°27'17.06"	NH-59	1		3.8	Black Topped	Black Topped	Govt	G.P. Sasan, NH-59-3.8
P1	Kapilash Sand Bed Mouza-Kapilash ,khata-201, Plot-391,kissam-, Lat-19°38'52.41"- 19°29'11.89", Long- 84°35'22.36"- 84°35'37.34"	NH-59	3		0.8	Black Topped	Black Topped	Govt	Kapilash, NH-59-0.8
P2	Pankalbadi - B Sand Bed Mouza-Pankalabadi ,khata-319, Plot-1837,2231,kissam-, Lat-19°36'23.47"-19°36'27.53", Long- 84°38'20.24"- 84°38'38.68"	NH-59			1.8	Black Topped	Black Topped	Govt	Pankalabadi, NH-59-1.8
P3	Laxmipur Sand Bed Mouza-Laxmipur ,khata-189, Plot-302, 580(P),kissam-, Lat-19°37'06.32"-19°37'23.04"Long- 84°37'13.58"-84°37'20.96	NH-157	2	2	7.1	Black Topped	Black Topped	Govt	Laxmipur, NH-157-7.1
P4	Jahada Sand Bed Mouza- Jahada,khata-861, Plot-5680 ,5681,kissam-, Lat-19°40'41.98"- 19°40'51.90", Long- 84°33'37.19"- 84°33'53.23"	NH-59	2	2	0.97	Black Topped	Black Topped	Govt	Jahada, NH-59-0.97

Cluster No.	Transportation Route No.	Number of tippers/day of cluster	Number of tippers/day of all the cluster on route	Length of route in KM	Type of road (Black Topped/unpaved)	Recommendation for road (Black Topped/unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
1	SH-32			1.72	Black Topped	Black Topped	Govt	Kanaka, SH-32-1.72
	SH-32	2	2	2.01	Black Topped	Black Topped	Govt	BHIMPUR, SH-32-2.01
2	NH-157	1	1	2.2	Black Topped	Black Topped	Govt	Badakodanda, NH-157-2.2
	NH-157			3.45	Black Topped	Black Topped	Govt	Badakodanda, NH-157-3.45
3	NH-157	2	3	6.79	Black Topped	Black Topped	Govt	Benipalli, NH-157-6.79
	NH-157	1		1.57	Black Topped	Black Topped	Govt	Girisola, NH-157-1.57

List of Potential Mining Leases (existing & proposed)

Rivers:

Lease No.	River Details	Lease Details	Area (in Ac/Ha)	Distance (in KM) from PA/BR/WC/	Distance from Forest Area (in KM)	Mining leases within 500 meters (if yes cluster area)	Total excavation in Cum /Annum considering digging depth max as 3 meters	Mineral to be mined (Sand/ Bajri/ RBM etc.)	Existing/ Proposed
A1	Bahuda	Chadiapada Sand Quarry At:- CHADIAPADA, Khata No-631, Plot No- 1 & 1079, Kissam- Nadi (84°31'13.00" 19°14'16.80", & 84°31'9.30" 19°14'17.80")	5.09	PR-3.32/ BR-0.7	3.32		50332	Sand	Existing
A2	Bahuda	PARASAMBA SAND QUARRY At:- Parasama, Khata No-407, Plot No- 1 & 177, Kissam- Nadi (84°34'8.50" 19°12'31.20", 84°34'6.50" 19°12'33.30")	5	PA-3.8/BR-3.5	3.8		13708	Sand	Existing
A3	Bahuda	K.NUAGAM SAND QUARRY At:- KAMPA NUAGAM, Khata No-401, Plot No- 4,531,2206 Kissam- Nadi (84°33'12.47" 19°13'42.73", 84°33'42.11" 19°12'55.04")	5	PA-4.7/BR-0.3	4.7		70146	Sand	Existing
A4	Bahuda	SUNDARADA SAND QUARRY At:- SUNDRAUDABIRA CHAITANYAPUR SASANA, Khata No-223, Plot No-1059 Kissam- Nadi(84°30'38.20" 19°14'13.90", 84°30'38.80" 19°14'11.00")	5	PA-1/BR-0.3	1		74998	Sand	Existing
A5	Bahuda	KALABADA SAND QUARRY -I At:- KALABADA , Khata No-525, Plot No- 1 & 2395 Kissam- Nadi(84°35'37.00" 19°9'21.80", 84°35'36.00" 19°9'18.80")	4.062	PA-7.4/BR-0.6	7.4		60930	Sand	Existing
A6	Bahuda	KALABADA SAND QUARRY -II At:- KALABADA , Khata No-525, Plot No- 2395 Kissam- River (84°35'36.10" 19°9'24.50", 84°35'40.30" 19°9'25.10")	5	PA-7.5/BR-0.5	7.5		74998.5	Sand	Existing
A7	Bahuda	CHILADI SAND QUARRY-I At:-CHILADI , Khata No-462, Plot No- 2369/2958 & 2179, Kissam- Nadi (84°35'32.17" 19°10'27.99", 84°35'30.58" 19°10'6.78")	5.03	PR-11.5/BR-1.1	11.5		69600	Sand	Existing
A8	Bahuda	CHILADI SAND QUARRY-II At:- CHILADI, Khata No-462, Plot No- 15/2957, Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")	4.77	PA-6.7/BR-1.2	6.7		95400	Sand	Existing
A9		BADA BARANGA SAND QUARRY -II , At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")	5.058	PA-8.44/ BR-0.48	8.44		75868.5	Sand	Existing

A10		BADA BARANGA SAND QUARRY -I, At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'50.64" 19°9'1.08", 84°35'59.28"19°9'28.44")	3.58	PA-8.18/ BR-1.1	8.18		58957.5	Sand	Existing
A11		BHOLASINGI SAND QUARRY , At:- BHOLASINGI, Khata No-378, Plot No-1556 , Kissam- Nadi (84°35'7.80" 19°11'20.40", 84°35'31.56"19°11'31.92")	6.437	PA-7.14/BR-0.57	7.14		96556.5	Sand	Existing
B1	Bahuda	TENTUAPADA-A SAND QUARRY TENTUAPADA Khata No-324 & 1666, Plot No- 1603,1665 & 1666, Kissam- Nadi (84°32'9.70" 19°14'12.10", 84°32'10.20" 19°14'8.50")	5.666	PA-3.48/BR-1.3	3.48		56660	Sand	Existing
B2	KANTEIJODI RIVER	CHAITANYA PRASAD SAND QUARRY CHAITANYA PRASAD Khata No-125, Plot No- 1130, Kissam- Nadi (84°32'21.60" 19°14'46.40", 84°32'22.10" 19°14'43.70")	2.176	PA-4.35/BR-1.6	4.35		21764	Sand	Existing
B3	Bahuda	DHANARASI SAND QUARRY DHANRASI Khata No-276, Plot No- 1 & 28, Kissam- Nadi (84°31'12.00" 19°14'4.00", 84°31'19.70" 19°14'3.50")	5.162	PA-3.29/BR-1.95	3.29		103240	Sand	Existing
B4	Bahuda	KALINGADOLA SAND QUARRY KALINGADOLA, Khata No-270, Plot No- 575, Kissam- Nadi (84°32'57.12"19°13'37.56", 84°33'16.20" 19°13'55.20")	6.639	PA-5.15/BR-1.1	5.15		50240	Sand	Existing
B5	Bahuda	JALAMERIPALLI SAND QUARRY Jalameripalli, Khata No-327, Plot No-1488, Kissam- Nadi (84°29'49.50" 19°22'58.70", 84°30'1.60" 19°22'58.60")	8.878	PA-7.44/BR-0.72	7.44		140700	Sand	Existing
B6	Bahuda	GOUDAGAM SAND QUARRY , GOUDAGAM, Khata No-844, Plot No-1917,1908 & 1848, (2.327, 2.239 & 1.790 Ha) Kissam- Nadi (84°29'1.20"19°13'22.90", 84°29'1.20"19°13'23.90")	6.356	PA-6.51/BR-0.54	6.51		56196	Sand	Existing
B7	Bahuda	CHASANIMAKHANDI SAND QUARRY , CHASANIMAKHANDI, Khata No-1004, Plot No-1535 & 1427,(7.042 & 6.026) Kissam- Nadi (84°28'33.40"19°21'40.00", 84°28'33.80"19°21'40.10")	13.068	PA-6.17/BR-0.45	6.17		196170	Sand	Existing
B8	Bahuda	Phasiguda Sand Quarry-1 , PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi LAT- 19.392 LONG-84.507	5.197	PA-7.92/BR-0.97	7.92		36137	Sand	Existing
B9	Bahuda	PHASIGUDA SAND QUARRY ,PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi (84°30'8.26"19°23'25.75", 84°30'14.80"19°23'36.29")	5.197	PA-7.97/BR-0.45	7.97		36137	Sand	Existing
B10	Bahuda	TENTUAPADA-B SAND QUARRY , TENTUAPADA, Khata No-324, Plot No-2084, Kissam- Nadi (84°32'25.42"19°14'15.63",84°32'25.74"19°14'11.33")	5.982	PA-2.94/BR-1.1	2.94		51092	Sand	Existing
B11	Bahuda	BAJRAGUMMA SAND QUARRY , BAJRAGUMMA, Khata No-245, Plot No-694 & 695, Kissam- Nadi (84°28'29.28"19°11'33.00"84°28'41.52"19°11'49.56")	4.544	PA-1.37/BR-3.1	1.37		NA	Sand	Existing
C1	Bahuda	Nadigam Sand Quarry NADIGAM, Khata No-520, Plot No-682& 684, Kissam- Nadi (84°34'28.93" 19°11'43.08", 84°34'53.78" 19°11'57.11")	5.577	PA-2.7/BR-1.9	2.7		40690	Sand	Existing

C2	Bahuda	KOLIALA SAND QUARRY KOLIALA, Khata No-530, Plot No-1444, Kissam- Nadi (84°33'48.40" 19°12'53.18", 84°33'47.85" 19°12'51.45")	5	PA-1.8/BR-0.7	1.8		64138	Sand	Existing
C3	Bahuda	KHARNIPADA SAND QUARRY KHARANIPADA, Khata No-777, Plot No-1098, Kissam- Nadi (84°34'9.92" 19°12'14.34", 84°34'9.03" 19°12'12.70")	0.405	PA-3/BR-2.0	3		8094	Sand	Existing
C4	Bahuda	Bhimapura sand Quarry-1 , Bhimapura, Khata No-503, Plot No-1(Area 12.750 Ac) & 18(Area 5.00Ac), Kissam- Nadi LAT- 19.14 LONG- 84.587	7.183	PA-9.2/BR-2.1	9.2			Sand	Proposed
C5	Bahuda	Bhimapura sand Quarry-2, Bhimapura, Khata No-506, Plot No-174(Area 14.875 Ac) Kissam- Nadi LAT- 19.139 LONG- 84.601	6.019	PA-7.8/BR-2.2	7.8			Sand	Proposed
C6	Bahuda	Budagada, Bhimapura, Khata No-253, Plot No-553(Area 2.765 Ac),Plot No-1398(Area 0.588 Ac) &Plot No-1397(Area 1.213 Ac) Kissam- Nadi	1.807	PA-8.1/BR-2.3	8.1			Sand	Proposed
D1	GHODAHADA	BHALIAJHOLA SAND SOURCE BHALIAJHOLA, Khata No-527, Plot No-3588, Kissam- Nadi (84°35'39.84"19°27'6.12", 84°36'5.40"19°27'23.40")	5	PA-4.3/BR-1.3	4.3		50400	Sand	Existing
D2	GHODAHADA	LUNINATHI SAND BED At:- LUNINATHI,Khata No-170, Plot No- 1539, Kissam- River(84°33'36.87" 19°25'31.34", 84°34'0.17" 19°25'39.19")	3.44	PA-1/BR-1.3	1		47380	Sand	Existing
D3	GHODAHADA	KHALINGI SAND SOURCE At:- KHALINGI,Khata No-1186, Plot No- 1917, Kissam- Nadi (84°39'21.40" 19°26'26.63", 84°39'39.30" 19°26'7.04")	5	PA-6/BR-1.2	6		56682	Sand	Existing
D4	GHODAHADA	ERENDRA SAND SOURCE At-ERENDRA,Khata No-860, Plot No- 636, Kissam- Nadi (84°37'52.94" 19°27'10.30", 84°37'52.70" 19°27'8.11")	4.197	PA-6.7/BR-0.9	6.7		42716	Sand	Existing
D5	GHODAHADA	MOULABHANJA SAND SOURCE At- MOULABHANJA,Khata No-1505, Plot No- 4156, Kissam- Nadi (Longitude-84°31'20.05" Latitude-19°23'47.60") to (Longitude-84°31'30.16" Latitude-19°23'56.81")	3.817	PA-1.5/BR-0.8	1.5		57255	Sand	Existing
D6	GHODAHADA	SUNDHIPALLI SAND SOURCE , SUNDHIPALLI,Khata No-545(AAA), Plot No- 389, Kissam- Nadi (Longitude-84°33'1.80" Latitude-19°24'43.56") to (Longitude-84°33'12.96" Latitude-19°24'54.36")	2.573	PA-2.36/BR-5.2	2.36			Sand	Existing
D7	GHODAHADA	KHOLADI SAND SOURCE , KHOLADI,Khata No-337 (AAA), Plot No- 910, Kissam- Nadi (Longitude-84°33'5.90" Latitude-19°25'11.10") to (Longitude-84°32'0.50"Latitude-19°25'7.20")	5	PA- 13.98/BR-3.9	13.98			Sand	Existing

D8	GHODAHADA	KARAKHANDI, GHODAHADA, KANAKARADA, Khata No-786, Plot No- 4011, Kissam- Nadi (Longitude-84°40'24.24" Latitude-19°26'29.04") to (Longitude-84°40'39.00" Latitude-19°27'4.68")	4.534	PA-4.99/BR-0.82	4.99			Sand	Existing
D9	GHODAHADA	DHARMARAYPUR SAND SOURCE , DHARMARAYAPUR, Khata No-458, Plot No-2110, 2112, 1899 & 2092 (1.280, 4.451, 3.095 & 4.939), Kissam- Nadi (Longitude-84°36'3.57" Latitude-19°27'20.79") to (Longitude-84°36'4.70" Latitude-19°27'22.59")	13.765	PA-3.85/BR-1.69	3.85			Sand	Existing
D10	GHODAHADA	AMBAGAM SAND SOURCE , AMBAGAM, Khata No-217(AAA), Plot No- 1,461 & 199/1152, (3.375, 2.262 & 5.645) Kissam- Nadi (Longitude-84°31'57.00" Latitude-19°25'0.84") to (Longitude-84°32'24.72" Latitude-19°25'12.72")	11.282	PA-1.1/BR-2.19	1.1			Sand	Existing
E1	RUSHIKULYA	HANSAPUR AT-HANSAPUR, Khata No-503, Plot No-1764/2119, 276/2123, 1764/2121 & 03/2118 Kissam- Nadi (Longitude-84°59'55.2" Latitude-19°24'49.0") to (Longitude-85°00'49.9" Latitude-19°25'40.9")	5.109	PA-3.6/BR-1.7	3.6		61200	Sand	Existing
E2	RUSHIKULYA	POTLAMPUR AT-POTLAMPUR, Khata No-282, Plot No- 279/1054, Kissam- Nadi (Longitude-84°59'34.01" Latitude-19°26'18.08") to (Longitude-84°59'36.3" Latitude-19°26'20.6")	6.07	PA-1.09/BR-1.5	1.09		72840	Sand	Existing
E3	RUSHIKULYA	BARANGA AT-BARANGA, Khata No-463, Plot No-962/1943, Kissam- Nadi (Longitude-84°58'9.07" Latitude-19°26'46.8") to (Longitude-84°58'14.8" Latitude-19°26'47.0")	6.07	PA-1.7/BR-3.8	1.7		72840	Sand	Existing
E4	RUSHIKULYA	BADAMADHAPUR Vill-BADAMADHAPUR Khata No-1399, Plot No- 909/7520, Kissam- Nadi (Longitude-84°58'9.06" Latitude-19°27'41.6") to (Longitude-84°58'07.5" Latitude-19°27'47.8")	6.07	PA-1/BR-5.1	1		72840	Sand	Existing
E5	RUSHIKULYA	Gova Sand Vill-GOVA, Vill-GOVA, Khata No-836, Plot No- 110, Kissam- Nadi Longitude- 19.5 Latitude-84.944	5	PA-3.01/ BR-4.65	3.01		50000	Sand	Proposed
F1	RUSHIKULYA	ALLIABAD Vill-ALLIABAD Khata No-610, Plot No-328/1310 , Kissam- Nadi (Longitude-85°01'48.65" Latitude-19°23'36.40") to (Longitude-85°01'56.55" Latitude-19°23'45.03")	5.058	PA-5.8/BR-0.7	5.8		81460	Sand	Existing
F2	RUSHIKULYA	SRIBANA AT-SRIBANA, Khata No-175, Plot No-427, Kissam- Nadi (Longitude-85°0'44.06" Latitude-19°24'57.03") to (Longitude-85°00'58.44" Latitude-19°25'11.26")	5.059	PA-3.6/BR-1.7	3.6		137600	Sand	Existing
F3	RUSHIKULYA	BAHALPUR AT-BAHALPUR, Khata No-356, Plot No-946/1250, Kissam- Nadi (Longitude-85°00'26.65" Latitude-19°25'14.16") to (Longitude-85°00'41.34" Latitude-19°25'22.26")	5.059	PA-1.9/BR-1.0	1.9		101160	Sand	Existing

F4	RUSHIKULYA	SRIBANABATIMALA AT-SRIBANABATIMALA, Khata No-873, Plot No- 554/2950, Kissam- Nadi (Longitude-85°01'34.84" Latitude-19°24'49.38") to (Longitude-85°01'26.27" Latitude-19°24'40.43")	5.261	PA-2.9/BR-2.7	2.9		75820	Sand	Existing
F5	RUSHIKULYA	Damodarpur Sand Quarry, AT- Damodarpur, Khata No-189, Plot No-262, Kissam- Nadi	5	PA-7.31/BR-0.54	7.31			Sand	Existing
F6	RUSHIKULYA	Bajrakote-1 Sand Quarry, AT- Bajrakote, Khata No-38, Plot No-9, Kissam- Nadi	5	PA-5.66/BR-2.3	5.66			Sand	Existing
F7	RUSHIKULYA	Bajrakote-2 Sand Quarry, AT- Bajrakote, Khata No-38, Plot No-197, Kissam- Nadi	5	PA-5.43/BR-2.02	5.43			Sand	Existing
F8	Rushykulya	Barapalli Sand Quarry, AT- barapalli, Khata No-569, Plot No-1715 & 1716 , Kissam- Nadi	7.97	PA-7.02/BR-6.34	7.02			Sand	Existing
G1	RUSHIKULYA	Long term lease of sand bed,kharida AT- kharida, Khata No-554, Plot No- 4553/1 & 4532/1, Kissam- Nadi (Longitude-84°46'35.82" Latitude-19°29'48.79") to (Longitude-84°46'43.72" Latitude-19°30'00.70")	5.261	PA-1.5/BR-2.6	1.5		48729	Sand	Existing
H1	Rushykulya	Burutulu Sand bed, AT- Burutulu, Khata No-186, Plot No-901, Kissam- Nadi LAT- 19.506 LONG-84.834	4.047	PA-12.15, BR-3.38	12.15		25500	Sand	Existing
H2	Rushykulya	Balia Sand, AT- Balia, Khata No-1054 & 786, Plot No-2605 & 1 , Kissam- Nadi LAT-19.493 LONG-84.952	5.2003	PA-3.59, BR-5.98	3.59			Sand	Existing
H3	Rushykulya	Kanaka Sand Bed AT-Kanaka, Khata No-472, Plot No- 865, 865/1012 & 785/1013, Kissam- Nadi(Longitude-84°51'9.09" Latitude-19°30'22.23") to (Longitude-84°51'10.73" Latitude-19°30'15.84")	31.21	PA- 5.53, BR-1.35	5.53	YES	564525	Sand	Existing
H4	Rushykulya	BHIMPUR SAND BED AT- BHIMPUR, Khata No-640, Plot No- 1320, Kissam- Nadi(Longitude-84°50'59.00" Latitude-19°30'22.67") to (Longitude-84°50'59.00" Latitude-19°30'17.07")	4.219	PA- 5.8, BR-1.71	5.8	YES	90798	Sand	Existing
H5	Rushykulya	MahaChai Sand Source AT- MAHACHAI, Khata No-664, Plot No- 2610, Kissam- Nadi(Longitude-84°45'42.43" Latitude-19°30'52.34")	10.83	PA- 4.13, BR-2.87	4.13			Sand	Proposed
H6	Rushykulya	Handi Ghara sand bed, AT- HANDIGHARA, Khata No-660, Plot No- 1739, Kissam- Nadi LAT-19.495 LONG-84.91	18.023	PA-7.74, BR-0.55	7.74			Sand	Proposed
H7	Rushykulya	Morabai Sand, AT- MORABAI, Khata No-380 Plot No-1209 , Kissam- Nadi (Longitude- Latitude- to (Longitude-19.501 Latitude-84.825)	12.355	PA-12.15, BR-3.38	12.15			Sand	Proposed
H8	Rushykulya	Achuli Sand bed, AT- ACHULI, Khata No-409, Plot No-617,618,1022 , Kissam- Nadi Longitude-19.497 ,Latitude-84.899	8.16	PA- 8.8, BR-0.74	8.8			Sand	Proposed
Q1	Rusikulya	Bhetasingi Sand Source, AT-BHETASINGI Khata No-293(AAA),Plot No-1229/1384/A, KISSAM-NADI (Latitude-19°31'44.40" N LONGITUDE-84°44'58.95" E)	4.532	PA-19.53/BR-1.00	19.53			Sand	Proposed

I1	Barha River	Dhanjia Sand Bed Mouza-Dhanjia ,Khata-851 , Plot-531 , 522 , Kissam-, Lat-19°42'30.1"- 19°42'39.3", Long-84°40'50.0"- 84°40'59.2"	4.856	PA-17.62/BR-4.74	17.62		97124	Sand	Existing
I2	Barha River	Bangarada Sand Bed Mouza-Bangarada ,Khata-1429, Plot-3842 , Kissam-, Lat-19°45'49.8"- 19°46'03.30", Long-84°39'37.7" - 84°39'48.4"	4.856	PA-16.86/BR-2.2	16.86		97124	Sand	Existing
I3	Barha River	Gahangu Sand Bed Mouza-Bangarada ,Khata-1254, Plot-1 , Kissam-, Lat-18°49'33.49"- 18°49'25.46", Long-84°10'07.38"-84°10'00.28"	4.856	PA-16.35/BR-1.78	16.35		121405	Sand	Existing
I4	Barha River	Jagadalpur Sand Bed Mouza-Bangarada ,Khata-466, Plot-337,194 , Kissam-, Lat-19°40'27.25"- 19°40'43.78", Long-84°39'15.40"- 84°39'22.42"	4.856	PA-18.95/BR-0.46	18.95		49704	Sand	Existing
I5	Barha River	Narasingapalli sand BedMouza-Bangarada ,Khata-109, Plot-1 , Kissam-, Lat-19°35'56.13"- 19°36'15.06", Long-84°40'39/79"- 84°40'47.56"	4.856	PA-18.58/BR-0.68	18.58		65920	Sand	Existing
I6	Rushikulya River	Mangalapur Sand Bed Mouza-Bangarada ,Khata-1522, Plot-3025,3348 , Kissam-, Lat-19°37'50.9"- 19°37'57.4", Long-84°36'48.0"-84°36'59.5"	4.856	PA-23.8/BR-6.5	23.8		48560	Sand	Existing
I7	Rushikulya River	Padhal Sand Bed AT-Padhal, Khata No-354, Plot No- 1946 , Kissam- Nadi	4.651	PA-19.99/BR-2.5	19.99		NA	Sand	Proposed
I8	Rushikulya River	Kendupadar Sand Bed AT-Kendupadar, Khata No-611, Plot No- 610,1265 , Kissam- Nadi	4.451	PA-19.2/BR-1.18	19.2		NA	Sand	Proposed
I9	Bada nadi	Nirala Sand Bed AT-Nirala, Khata No-316, Plot No-1791 , Kissam- Nadi	4.653	PA-18.87/BR-3.61	18.87		NA	Sand	Proposed
I10	Rushikulya River	Khadabhaga Sand Bed AT-KHADABHAGA, Khata No-504(AAA), Plot No- 908, Kissam- Nadi	4.653	PA-19.97/BR-2.41	19.97		NA	Sand	Proposed
J1	Barha River	Bishnuchakra Sand BedMouza-Bishnuchakra ,khata-913, Plot- 4045,kissam-,Lat-19°45'38.37"- 19°45'45.95", Long-84°45'58.18"- 84°40'05.05"	1.43	PA-15.8/BR-1.65	15.8		NA	Sand	Existing
K1	Barha River	Bhereda Sand Bed Mouza-Bhereda ,khata-360, Plot-315, 662/P,kissam-,Lat-19°56'10.28"- 19°56'43.87Long- 84°36'24.65"- 84°36'49.93"	4.947	PA-1.42/BR-1.74	1.42		50046	Sand	Existing
K2	Barha River	Baruda Sand bed Mouza-Baruda ,khata-723,, Plot-1617/A,kissam-Lat-19°59'28,50"- 19°59'39.13"Long- 84°37'47.14"- 84°37'55.36"	2.434	PA-1.41/BR-0.58	1.41		38080	Sand	Existing
K3	Lohorkhandi River	Badakodanda-I Sand Bed Mouza- Badakodanda ,khata-1430 ,, Plot-3625/A,kissam-Lat-Long-19°56'21.53"- 19°56'25.93" 87°33'56.62"- 84°34'10.75"	3.258	PA-3.67/BR-0.69	3.67	YES	34500	Sand	Existing
K4	Lohorkhandi River	Gamundi Sand Bed Mouza- ,khata-999,339,kissam-, Plot-203/A,703/A,Lat-19°55'05.96"- 91°55'20.70", Long- 84°35'19.52"- 84°35'39.17"	4.937	PA-5.39/BR-0.86	5.39		68040	Sand	Existing
K5	Lohorkhandi River	Badakodanda- II Sand Bed Mouza-Badakodanda ,khata-1430, Plot-1991 , kissam-,Lat-Long-84°32'19.15"- 84°32'58.07"	4.998	PA-2.4/BR-0.17	2.4	YES	24383	Sand	Existing

L1	Barha River	Nuagam Sand Bed AT-Nuagam, Khata No-969, Plot No- 125,292,291, Kissam- Nadi Lat-19.924, Long-84.602	4.999	PA-3.32/BR-0.82	3.32		NA	Sand	Existing
L2	Barha River	Benipali Sand Bed Mouza-Benipalli ,khata-859, Plot-210,211,kissam-, Lat-20°50'35.11"- 20°51'00.95", Long- 84°37'29.19"- 84°37'35.73"	6.283	PA-8.66/BR-0.36	8.66	YES	77730	Sand	Existing
L3	Barha River	Banka Sand Bed Mouza-Banka ,khata-852, Plot-2047,kissam-, Lat-19°49'30.60"- 19°49'44.77", Long-84°37'28.13"- 84°37'35.28"	4.37	PA-7.65/BR-3.2	7.65		44084	Sand	Existing
L4	Barha River	Suramani Sand Bed Mouza- Suramani,khata-232,Plot-659, 1/1725,kissam-, Lat- 19°48'35.62"- 19°48'57.34"Long- 84°37'47.25"- 84°37'54.87"	5.038	PA-8.79/BR-4.65	8.79		40630	Sand	Existing
L5	Barha River	Girisola Sand Bed Mouza- Girisola,khata-970, Plot-1,kissam-, Lat-19°50'23.10"- 19°50'45.20", Long-84°37'32.80"- 84°37'44.70"	6.161	PA-7.42/BR-1.09	7.42	YES	41954	Sand	Existing
L6	Barha River	Kokolunda Sand Bed Mouza-Kokolunda ,khata-483, Plot-2141/2158,kissam-, Lat-19°50'23.10"- 19°50'45.20"Long- 84°38'50.14"- 84°29'02.28"	5.413	PA-8.66/BR-1.06	8.66		NA	Sand	Existing
L7	Barha River	Ambapua Sand Bed Mouza-Ambapua ,khata-694, Plot-71/2179, 71, 1289,kissam-, Lat-19°42'31.39"- 19°51'48.82", Long- 84°38'23.25"- 84°39'19.60"	6.377	PA-16.73/BR-0.53	16.73		49457	Sand	Existing
M1	Barha River	Kandarasing Sand Bed Mouza-Kandarasing ,khata-567, Plot-3222,3112,3119,2794,2268 ,kissam-, Lat-19°54'16.19"- 19°54'36.46", Long- 84°43'18.57"- 84°43'42.15"	12.106	PA-12.42/BR-1.32	12.42		242120	Sand	Existing
M2	Barha River	Sorisamuli Sand Bed Mouza-Sorisamuli ,khata- 283, Plot-973,kissam-, Lat-19°53'16.80"- 19°53'28.28" Long- 84°41'56.93"- 84°42'12.65"	4.452	PA-12.87/BR-0.9	12.87		26593	Sand	Existing
M3	Barha River	Tentulia Sand Bed Mouza-Tentulia ,khata-344, Plot-2043,kissam-, Lat-19°53'49.48"- 19°53'58.58"Long- 84°42'39.82"- 84°42'46.16"	4.696	PA-13.24/BR-0.7	13.24		14344	Sand	Existing
M4	Barha River	Nimapadar Sand Bed Mouza-Nimapadara,khata-1472, Plot-744,kissam-, Lat- 19°52'55.46"- 19°53'3.12", Long- 84°41'13.46"- 84°41'29.60"	4.401	PA-13.33/BR-1.09	13.33		25688	Sand	Existing
N1	Rushikulya River	Santoshpur Sand bed Mouza- Santoshpur,khata-417, Plot-45,kissam-, Lat-19°32'01.85"- 19°32'01.86", Long-84°44'01.99"- 84°44'13.94"	4.856	PA-19.53/BR-1.00	19.53		83654	Sand	Existing
N2	Rushikulya River	Pakidi Sand bed Mouza-Pakidi ,khata-507, Plot-1,kissam-, Lat-19°33'08.55"- 19°33'31.43" Long- 84°42'09.61"-84°42'25.91"	11.623	PA-20.09/BR-1.1	20.09		303960	Sand	Existing
O1	Rushikulya River	G.P. Sasan Sand Bed Mouza- G.P. Sasan,khata-271, Plot-1501,kissam-, Lat-19°45'25.92"-19°45'35.17", Long- 84°27'03.73"- 84°27'17.06"	4.996	PA-2.26/BR-2.04	2.26		22834	Sand	Existing

P1	Rushikulya River	Kapilash Sand Bed Mouza-Kapilash ,khata-201, Plot-391,kissam-, Lat-19°38'52.41"- 19°29'11.89", Long- 84°35'22.36"- 84°35'37.34"	5.518	PA-2.61/BR-1.8	2.61		47028	Sand	Existing
P2	Rushikulya River	Pankalbadi - B Sand Bed Mouza-Pankalabadi ,khata-319, Plot-1837,2231,kissam-, Lat-19°36'23.47"- 19°36'27.53", Long- 84°38'20.24"- 84°38'38.68"	5.132	PA-24.5/BR-2.9	24.5		54229	Sand	Existing
P3	Rushikulya River	Laxmipur Sand Bed Mouza-Laxmipur ,khata-189, Plot-302, 580(P),kissam-, Lat-19°37'06.32"- 19°37'23.04"Long- 84°37'13.58"-84°37'20.96	5.244	PA-25.51/BR-6.2	25.51		54503.5	Sand	Existing
P4	Rushikulya River	Jahada Sand Bed Mouza- Jahada,khata-861, Plot-5680 ,5681,kissam-, Lat-19°40'41.98"- 19°40'51.90", Long- 84°33'37.19"- 84°33'53.23"	7.603	PA-5.12/BR-3.4	5.12		46452	Sand	Existing

Patta Lands/Khatedari Land: (existing & proposed)

Owner	Sy. No	Area	District	Tehsil	Village	Total Reserve (MT)	Total Mineral to be mined (MT)	Existing /Proposed
NA	NA	NA	NA	NA	NA	NA	NA	NA

De-Siltation Location: (Lakes/Ponds/Dams etc.) (Existing & proposed)

Name of Reservoir/Dams	Maintain /Controlled by State Govt./PSU etc.	Location	District	Tehsil	Village	Size (Ha)	Quantity MT/Year	Existing /Proposed
NA	NA	NA	NA	NA	NA	NA	NA	NA

M-Sand Plants:(existing & proposed)

Plant Name	Owner	District	Tehsi	Village	Geo- location	Quantity Tonnes/Annum	Existing/Proposed
NA	NA	NA	NA	NA	NA	NA	NA

Cluster & Contiguous Cluster details

Clusters:

River Name	Cluster No.	Lease No	Location (Riverbed / Patta Land)	Village	Area (in Ha)	Total Excavation (CuM)	Total Mineral Excavation (CuM)
Rushykulya	1	H3	Kanaka Sand Bed, AT-Kanaka, Khata No-472, Plot No-865, 865/1012 & 785/1013, Kissam- Nadi(Longitute-84°51'9.09" Lattitute-19°30'22.23") to (Longitute-84°51'10.73" Lattitute-19°30'15.84")	Kanaka	31.21	564525	338715
Rushykulya		H4	Bhimpur Sand Bed, AT- BHIMPUR, Khata No-640, Plot No- 1320, Kissam- Nadi(Longitute-84°50'59.00" Lattitute-19°30'22.67") to (Longitute-84°50'59.00" Lattitute-19°30'17.07")	BHIMPUR	4.219	90798	54478.8
Loharakhandi	2	K3	Badakodanda River Bed -I Mouza- Badakodanda ,khata-1430 ,, Plot-3625/A,kissam- NadiLat-Long-19°56'21.53"-19°56'25.93" 87°33'56.62"- 84°34'10.75"	Badakodanda	3.258	34500	20700
Loharakhandi		K5	Badakodanda River Bed -II Mouza-Badakodanda ,khata-1430, Plot-1991, kissam- Nadi,Lat-19°56'21.53"-91°56'25.93", Long-84°32'19.15"- 84°32'58.07"	Badakodanda	4.958	24383	14629.8
Bada Nadi	3	L2	Benipalli Sand Bed Mouza-Benipalli ,khata-859, Plot-210,211,kissam- Nadi, Lat-19°50'35.11"-19°51'00.95", Long- 84°37'29.19"-84°37'35.73"	Benipalli	6.283	77730	46638
Bada Nadi		L5	Girisola Sand Bed Mouza- Girisola,khata-970, Plot-1,kissam- Nadi, Lat-19°50'23.10"- 19°50'45.20", Long-84°37'32.80"- 84°37'44.70"	Girisola	6.161	41954	25172.4

Contiguous Clusters:

River Name	Contiguous Cluster No.	Cluster No	Number of leases in the cluster	Location (Riverbed/ Patta Land)	Distance between clusters	Village	Area of Cluster (Ha)	Total Mineral Excavation. (Ton)
NA	NA	NA	NA	NA	NA	NA	NA	NA

Transportation Routes for individual leases and leases in Cluster

Lease No.	Transportation Route No.	Number of tippers/day of lease	Number of tippers/day of all the lease on route	Length of route in KM	Type of road(Black Topped/unpaved)	Recommendation for road (Black Topped/unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
A1	Chadiapada Sand Quarry At:- CHADIAPADA, Khata No-631, Plot No- 1 & 1079, Kissam- Nadi (84°31'13.00" 19°14'16.80", & 84°31'9.30" 19°14'17.80")			7.44	Black Topped	Black Topped	Govt	CHADIAPADA, SH-29-7.44
A2	PARASAMBA SAND QUARRY At:- Parasama, Khata No-407, Plot No- 1 & 177, Kissam- Nadi (84°34'8.50" 19°12'31.20", 84°34'6.50" 19°12'33.30")	1	5	2.88	Black Topped	Black Topped	Govt	PARASAMA, SH-29-2.88
A3	K.NUAGAM SAND QUARRY At:- KAMPA NUAGAM, Khata No-401, Plot No- 4,531,2206 Kissam- Nadi (84°33'12.47" 19°13'42.73", 84°33'42.11" 19°12'55.04")	2		0.95	Black Topped	Black Topped	Govt	KAMPA NUAGAM, SH-29-0.95
A4	SUNDARADA SAND QUARRY At:- SUNDRAUDABIRA CHAITANYAPUR SASANA, Khata No-223, Plot No-1059 Kissam- Nadi (84°30'38.20" 19°14'13.90", 84°30'38.80" 19°14'11.00")	2		8.35	Black Topped	Black Topped	Govt	SUNDRAUDABIRA CHAITANYAPUR SASANA, SH-29-8.35
A5	KALABADA SAND QUARRY -I At:- KALABADA , Khata No-525, Plot No- 1 & 2395 Kissam- Nadi(84°35'37.00" 19°9'21.80", 84°35'36.00" 19°9'18.80")	1		4	0.95	Black Topped	Black Topped	Govt
A6	KALABADA SAND QUARRY -II At:- KALABADA , Khata No-525, Plot No- 2395 Kissam- River (84°35'36.10" 19°9'24.50", 84°35'40.30" 19°9'25.10")	1	0.63		Black Topped	Black Topped	Govt	KALABADA , SH-22-0.63
A7	CHILADI SAND QUARRY-I At:-CHILADI , Khata No-462, Plot No- 2369/2958 & 2179, Kissam- Nadi (84°35'32.17" 19°10'27.99", 84°35'30.58" 19°10'6.78")	1	1.21		Black Topped	Black Topped	Govt	CHILADI, SH-22-1.21
A8	CHILADI SAND QUARRY-II At:- CHILADI, Khata No-462, Plot No- 15/2957, Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")	1	1.76		Black Topped	Black Topped	Govt	CHILADI, SH-22-1.76
A9	BADA BARANGA SAND QUARRY -II , At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'35.40" 19°10'29.70", 84°35'31.70" 19°10'28.10")			0.93	Black Topped	Black Topped	Govt	BADABARANGA, SH-22-0.93

A10	BADA BARANGA SAND QUARRY -I, At:- BADABARANGA, Khata No-675, Plot No-258 , Kissam- Nadi (84°35'50.64" 19°9'1.08", 84°35'59.28"19°9'28.44")	SH-22			1.94	Black Topped	Black Topped	Govt	BADABARANGA, SH-22-1.94
A11	BHOLASINGI SAND QUARRY , At:- BHOLASINGI, Khata No-378, Plot No-1556 , Kissam- Nadi (84°35'7.80" 19°11'20.40", 84°35'31.56"19°11'31.92")	SH-22			2.4	Black Topped	Black Topped	Govt	BHOLASINGI, SH-2.4
B1	TENTUAPADA-A SAND QUARRY TENTUAPADA Khata No-324 & 1666, Plot No- 1603,1665 & 1666, Kissam- Nadi (84°32'9.70" 19°14'12.10", 84°32'10.20" 19°14'8.50")	SH-29	1	3	2.2	Black Topped	Black Topped	Govt	TENTUAPADA, SH-2.2
B2	CHAITANYA PRASAD SAND QUARRY CHAITANYA PRASAD Khata No-125, Plot No- 1130, Kissam- Nadi (84°32'21.60" 19°14'46.40", 84°32'22.10" 19°14'43.70")	SH-29	1		1.96	Black Topped	Black Topped	Govt	CHAITANYA PRASAD, SH-29
B3	DHANARASI SAND QUARRY DHANRASI Khata No-276, Plot No- 1 & 28, Kissam- Nadi (84°31'12.00" 19°14'4.00", 84°31'19.70" 19°14'3.50")	SH-29	1		4.12	Black Topped	Black Topped	Govt	DHANRASI,SH-29-4.12
B4	KALINGADOLA SAND QUARRY KALINGADOLA, Khata No-270, Plot No- 575, Kissam- Nadi (84°32'57.12"19°13'37.56", 84°33'16.20" 19°13'55.20")	SH-29			1.5	Black Topped	Black Topped	Govt	KALINGADOLA,SH-29-1.5
B5	JALAMERIPALLI SAND QUARRY Jalameripalli, Khata No-327, Plot No-1488, Kissam- Nadi (84°29'49.50" 19°22'58.70", 84°30'1.60" 19°22'58.60")	NH-326	1	2	6.2	Black Topped	Black Topped	Govt	JALAMERIPALLI, NH-326-6.2
B6	GOUDAGAM SAND QUARRY , GOUDAGAM, Khata No-844, Plot No-1917,1908 & 1848, (2.327, 2.239 & 1.790 Ha) Kissam- Nadi (84°29'1.20"19°13'22.90", 84°29'1.20"19°13'23.90")	NH-326	1		6.45	Black Topped	Black Topped	Govt	GOUDAGAM, NH-326-6.45
B7	CHASANIMAKHANDI SAND QUARRY , CHASANIMAKHANDI, Khata No-1004, Plot No-1535 & 1427,(7.042 & 6.026) Kissam- Nadi (84°28'33.40"19°21'40.00", 84°28'33.80"19°21'40.10")	NH-326			9.2	Black Topped	Black Topped	Govt	CHASANIMAKHANDI, NH-326-9.2
B8	Phasiguda Sand Quarry-1 , PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi LAT- 19.392 LONG-84.507	NH-326	1	1	4.6	Black Topped	Black Topped	Govt	PHASIGUDA,NH-326-4.6
B9	PHASIGUDA SAND QUARRY ,PHASIGUDA, Khata No-584, Plot No-4715, Kissam- Nadi (84°30'8.26"19°23'25.75", 84°30'14.80"19°23'36.29")	SH-29			5.5	Black Topped	Black Topped	Govt	PHASIGUDA,SH-29-5.5
B10	TENTUAPADA-B SAND QUARRY , TENTUAPADA, Khata No-324, Plot No-2084, Kissam- Nadi (84°32'25.42"19°14'15.63",84°32'25.74"19°14'11.33")	SH-29			2.4	Black Topped	Black Topped	Govt	TENTUAPADA, SH-29-2.4
B11	BAJRAGUMMA SAND QUARRY , BAJRAGUMMA, Khata No-245, Plot No-694 & 695, Kissam- Nadi (84°28'29.28"19°11'33.00"84°28'41.52"19°11'49.56")	SH-29			12.28	Black Topped	Black Topped	Govt	BAJRAGUMMA, SH-29-12.28

C1	Nadigam Sand Quarry NADIGAM, Khata No-520, Plot No-682& 684, Kissam- Nadi (84°34'28.93" 19°11'43.08", 84°34'53.78" 19°11'57.11")	SH-29			2.8	Black Topped	Black Topped	Govt	NADIGAM, SH-29-2.8
C2	KOLIALA SAND QUARRY KOLIALA, Khata No-530, Plot No-1444, Kissam- Nadi (84°33'48.40" 19°12'53.18", 84°33'47.85" 19°12'51.45")	SH-29			1.58	Black Topped	Black Topped	Govt	KOLIALA, SH-29-1.58
C3	KHARNIPADA SAND QUARRY KHARANIPADA, Khata No-777, Plot No-1098, Kissam- Nadi (84°34'9.92" 19°12'14.34", 84°34'9.03" 19°12'12.70")	SH-29	1	1	2.29	Black Topped	Black Topped	Govt	KHARANIPADA, SH-29-2.29
C4	Bhimapura sand Quarry-1 , Bhimapura, Khata No-503, Plot No-1(Area 12.750 Ac) & 18(Area 5.00Ac), Kissam- Nadi LAT- 19.14 LONG- 84.587	SH- 22			3.2	Black Topped	Black Topped	Govt	Bhimapura, SH-22-3.2
C5	Bhimapura sand Quarry-2, Bhimapura, Khata No-506, Plot No-174(Area 14.875 Ac) Kissam- Nadi LAT- 19.139 LONG- 84.601	SH- 22			4.6	Black Topped	Black Topped	Govt	Bhimapura, SH-22-4.6
C6	Budagada, Bhimapura, Khata No-253, Plot No-553(Area 2.765 Ac),Plot No-1398(Area 0.588 Ac) &Plot No-1397(Area 1.213 Ac) Kissam- Nadi	SH-22			2.9	Black Topped	Black Topped	Govt	Bhimapura, SH-22-2.9
D1	BHALIAJHOLA SAND SOURCE BHALIAJHOLA, Khata No-527, Plot No-3588, Kissam- Nadi (84°35'39.84"19°27'6.12", 84°36'5.40"19°27'23.40")	NH-326	1	6	1.2	Black Topped	Black Topped	Govt	BHALIAJHOLA, NH-326-1.2
D2	LUNINATHI SAND BED At:- LUNINATHI,Khata No-170, Plot No- 1539, Kissam- River(84°33'36.87" 19°25'31.34", 84°34'0.17" 19°25'39.19")	NH-326	1		3.6	Black Topped	Black Topped	Govt	LUNINATHI, NH-326-3.6
D3	KHALINGI SAND SOURCE At:- KHALINGI,Khata No-1186, Plot No- 1917, Kissam- Nadi (84°39'21.40" 19°26'26.63", 84°39'39.30" 19°26'7.04")	NH-326	2		18.5	Black Topped	Black Topped	Govt	KHALINGI, NH-326-18.5
D4	ERENDRA SAND SOURCE At-ERENDRA,Khata No-860, Plot No- 636, Kissam- Nadi (84°37'52.94" 19°27'10.30", 84°37'52.70" 19°27'8.11")	NH-326	1		6.2	Black Topped	Black Topped	Govt	ERENDRA, NH-326-6.2
D5	MOULABHANJA SAND SOURCE At- MOULABHANJA,Khata No-1505, Plot No- 4156, Kissam- Nadi (Longitude-84°31'20.05" Latitude-19°23'47.60") to (Longitude-84°31'30.16" Latitude-19°23'56.81")	NH-326	1		1.3	Black Topped	Black Topped	Govt	MOULABHANJA, NH-326-1.3
D6	SUNDHIPALLI SAND SOURCE , SUNDHIPALLI,Khata No-545(AAA), Plot No- 389, Kissam- Nadi (Longitude-84°33'1.80" Latitude-19°24'43.56") to (Longitude-84°33'12.96" Latitude-19°24'54.36")	NH-326			3.4	Black Topped	Black Topped	Govt	SUNDHIPALLI, NH-326-3.4
D7	KHOLADI SAND SOURCE , KHOLADI,Khata No-337 (AAA), Plot No- 910, Kissam- Nadi (Longitude-84°33'5.90" Latitude-19°25'11.10") to (Longitude-84°32'0.50"Latitude-19°25'7.20")	NH-326			7.8	Black Topped	Black Topped	Govt	KHOLADI, NH-326-7.8

D8	KARAKHANDI,GHODAHADA, KANAKARADA,Khata No-786, Plot No- 4011, Kissam- Nadi (Longitude-84°40'24.24" Latitude-19°26'29.04") to (Longitude-84°40'39.00"Latitude-19°27'4.68")	NH-59			11.2	Black Topped	Black Topped	Govt	KANAKARADA, NH-59-11.2
D9	DHARMARAYPUR SAND SOURCE , DHARMARAYAPUR,Khata No-458, Plot No-2110,2112,1899 & 2092(1.280, 4.451, 3.095 & 4.939), Kissam- Nadi (Longitude-84°36'3.57" Latitude-19°27'20.79") to (Longitude-84°36'4.70"Latitude-19°27'22.59")	NH-326			2.83	Black Topped	Black Topped	Govt	DHARMARAYAPUR, NH-326-2.83
D10	AMBAGAM SAND SOURCE , AMBAGAM,Khata No-217(AAA), Plot No- 1,461 & 199/1152, (3.375, 2.262 & 5.645)Kissam- Nadi (Longitude-84°31'57.00" Latitude-19°25'0.84") to (Longitude-84°32'24.72"Latitude-19°25'12.72")	NH-326			3.3	Black Topped	Black Topped	Govt	AMBAGAM, NH-326-3.3
E1	HANSAPUR AT-HANSAPUR, Khata No-503, Plot No-1764/2119, 276/2123, 1764/2121 & 03/2118 Kissam-Nadi (Longitude-84°59'55.2" Latitude-19°24'49.0") to (Longitude-85°00'49.9" Latitude-19°25'40.9")	NH-16			12.2	Black Topped	Black Topped	Govt	HANSAPUR, NH-16-12.2
E2	POTLAMPUR AT-POTLAMPUR, Khata No-282, Plot No- 279/1054, Kissam- Nadi (Longitude-84°59'34.01" Latitude-19°26'18.08") to (Longitude-84°59'36.3" Latitude-19°26'20.6")	NH-31			3.67	Black Topped	Black Topped	Govt	POTLAMPUR, SH-31-3.67
E3	BARANGA AT-BARANGA, Khata No-463, Plot No-962/1943, Kissam- Nadi (Longitude-84°58'9.07" Latitude-19°26'46.8") to (Longitude-84°58'14.8" Latitude-19°26'47.0")	SH-31			13.2	Black Topped	Black Topped	Govt	BARANGA, SH-31-13.2
E4	BADAMADHAPUR Vill-BADAMADHAPUR Khata No-1399, Plot No- 909/7520, Kissam- Nadi (Longitude-84°58'9.06" Latitude-19°27'41.6") to (Longitude-84°58'07.5" Latitude-19°27'47.8")	SH-31	3	5	12.52	Black Topped	Black Topped	Govt	BADAMADHAPUR, SH-31-12.52
E5	Gova Sand Vill-GOVA, Vill-GOVA, Khata No-836, Plot No- 110, Kissam- Nadi Longitude- 19.5 Latitude-84.944	SH-31	2		3.5	Black Topped	Black Topped	Govt	GOVA, SH-31-3.5
F1	ALLIABAD Vill-ALLIABAD Khata No-610, Plot No-328/1310 , Kissam- Nadi (Longitude-85°01'48.65" Latitude-19°23'36.40") to (Longitude-85°01'56.55" Latitude-19°23'45.03")	NH-16			7.47	Black Topped	Black Topped	Govt	ALLIABAD , NH-16-7.47
F2	SRIBANA AT-SRIBANA, Khata No-175, Plot No- 427, Kissam- Nadi (Longitude-85°0'44.06" Latitude-19°24'57.03") to (Longitude-85°00'58.44" Latitude-19°25'11.26")	NH-16			8.41	Black Topped	Black Topped	Govt	SRIBANA, NH-16-8.41

F3	BAHALPUR AT-BAHALPUR, Khata No-356, Plot No-946/1250, Kissam- Nadi (Longitude-85°00'26.65" Latitude-19°25'14.16") to (Longitude-85°00'41.34" Latitude-19°25'22.26")	SH-31			3.84	Black Topped	Black Topped	Govt	BAHALPUR, SH-31-3.84
F4	SRIBANABATIMALA AT-SRIBANABATIMALA, Khata No-873, Plot No- 554/2950, Kissam- Nadi (Longitude-85°01'34.84" Latitude-19°24'49.38") to (Longitude-85°01'26.27" Latitude-19°24'40.43")	SH-31			9.47	Black Topped	Black Topped	Govt	SRIBANABATIMALA, SH-31-9.47
F5	Damodarpur Sand Quarry, AT- Damodarpur, Khata No-189, Plot No-262, Kissam- Nadi	NH-16			1.6	Black Topped	Black Topped	Govt	Damodarpur, NH-16-1.6
F6	Bajrakote-1 Sand Quarry, AT- Bajrakote, Khata No-38, Plot No-9, Kissam- Nadi	SH-31			4	Black Topped	Black Topped	Govt	Bajrakote, SH-31-4
F7	Bajrakote-2 Sand Quarry, AT- Bajrakote, Khata No-38, Plot No-197, Kissam- Nadi	SH-31			5.03	Black Topped	Black Topped	Govt	Bajrakote, SH-31-5.03
F8	Barapalli Sand Quarry, AT- barapalli, Khata No-569, Plot No-1715 & 1716, Kissam- Nadi	SH-31			5.19	Black Topped	Black Topped	Govt	Barapalli, SH-31-5.19
G1	Long term lease of sand bed,kharida AT- kharida, Khata No-554, Plot No- 4553/1 & 4532/1, Kissam- Nadi (Longitude-84°46'35.82" Latitude-19°29'48.79") to (Longitude-84°46'43.72" Latitude-19°30'00.70")	NH-59			6.55	Black Topped	Black Topped	Govt	kharida, NH-59-6.55
H1	Burutulu Sand bed, AT- Burutulu, Khata No-186, Plot No-901, Kissam- Nadi LAT- 19.506 LONG-84.834	SH-32	5	5	3.7	Black Topped	Black Topped	Govt	Burutulu, SH-32-3.7
H2	Balia Sand, AT- Balia, Khata No-1054 & 786, Plot No-2605 & 1, Kissam- Nadi LAT-19.493 LONG-84.952	SH-31			1.06	Black Topped	Black Topped	Govt	Balia,SH-31-1.06
H3	Kanaka Sand Bed AT-Kanaka, Khata No-472, Plot No- 865, 865/1012 & 785/1013, Kissam- Nadi(Longitude-84°51'9.09" Latitude-19°30'22.23") to (Longitude-84°51'10.73" Latitude-19°30'15.84")	SH-32			1.72	Black Topped	Black Topped	Govt	Kanaka, SH-32-1.72
H4	BHIMPUR SAND BED AT- BHIMPUR, Khata No-640, Plot No- 1320, Kissam- Nadi(Longitude-84°50'59.00" Latitude-19°30'22.67") to (Longitude-84°50'59.00" Latitude-19°30'17.07")	SH-32	2	2	2.01	Black Topped	Black Topped	Govt	BHIMPUR, SH-32-2.01
H5	MahaChai Sand Source AT- MAHACHAI, Khata No-664, Plot No- 2610, Kissam- Nadi(Longitude-84°45'42.43" Latitude-19°30'52.34")	NH-59			9.4	Black Topped	Black Topped	Govt	MAHACHAI, NH-59-9.4
H6	Handi Ghara sand bed, AT- HANDIGHARA, Khata No-660, Plot No- 1739, Kissam- Nadi LAT-19.495 LONG-84.91	SH-31			2.51	Black Topped	Black Topped	Govt	HANDIGHARA, SH-31-2.51
H7	Morabai Sand, AT- MORABAI, Khata No-380 Plot No-1209, Kissam- Nadi (Longitude- Latitude- to (Longitude-19.501 Latitude-84.825)	SH-32			3.9	Black Topped	Black Topped	Govt	Morabai, SH- 3.9

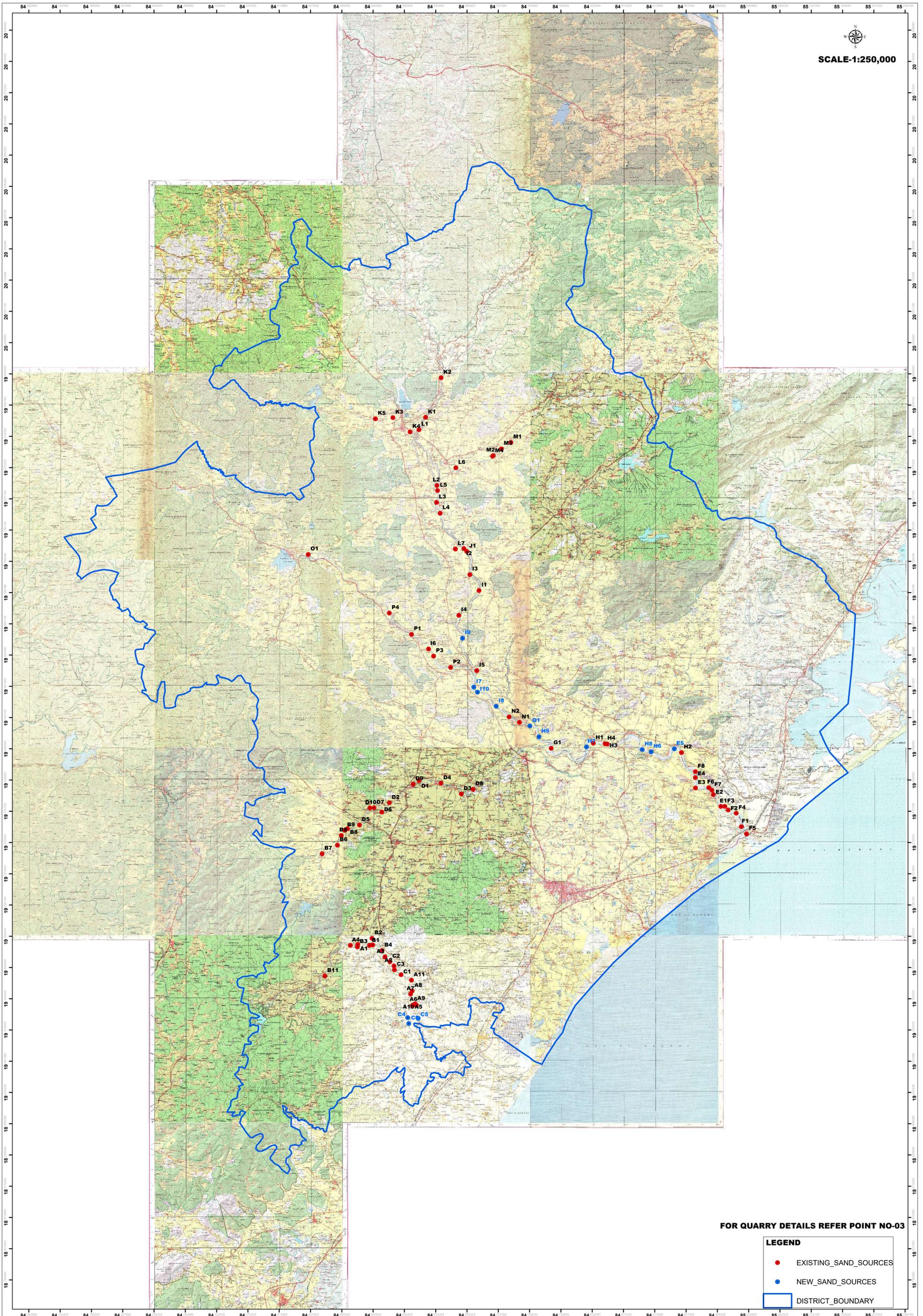
H8	Achuli Sand bed, AT- ACHULI, Khata No-409, Plot No-617,618,1022, KISSAM- Nadi Longitude-19.497 ,Latitude-84.899	SH-31			1.78	Black Topped	Black Topped	Govt	ACHULI, SH-31-1.78
Q1	Bhetasingi Sand Source, AT-BHETASINGI Khata No-293(AAA),Plot No-1229/1384/A, KISSAM-NADI (Latitude-19°31'44.40" N LONGITUDE-84°44'58.95" E)	NH-59			3.6	Black Topped	Black Topped	Govt	BHETASINGI
I1	Dhanjia Sand Bed Mouza-Dhanjia ,Khata-851, Plot-531, 522, KISSAM-, Lat-19°42'30.1"- 19°42'39.3", Long-84°40'50.0"- 84°40'59.2"	SH-30	2	2	1.96	Black Topped	Black Topped	Govt	Dhanjia, SH-30-1.96
I2	Bangarada Sand Bed Mouza-Bangarada ,Khata-1429, Plot-3842, KISSAM-, Lat-19°45'49.8"- 19°46'03.30", Long-84°39'37.7" - 84°39'48.4"	SH-30			1.85	Black Topped	Black Topped	Govt	Bangarada, SH-30-1.85
I3	Gahangu Sand Bed Mouza-Bangarada ,Khata-1254, Plot-1, KISSAM-, Lat-18°49'33.49"- 18°49'25.46", Long-84°10'07.38"-84°10'00.28"	NH-157	1	7	3.76	Black Topped	Black Topped	Govt	Gahangu, NH-157-3.76
I4	Jagadapur Sand Bed Mouza-Bangarada ,Khata-466, Plot-337,194, KISSAM-, Lat-19°40'27.25"- 19°40'43.78", Long-84°39'15.40"- 84°39'22.42"	NH-157	3		1.72	Black Topped	Black Topped	Govt	Jagadapur, NH-157- 1.72
I5	Narasingapalli sand BedMouza-Bangarada ,Khata-109, Plot-1, KISSAM-, Lat-19°35'56.13"- 19°36'15.06", Long-84°40'39/79"- 84°40'47.56"	NH-157	3		0.72	Black Topped	Black Topped	Govt	Narasingapalli, NH-157- 0.72
I6	Mangalapur Sand Bed Mouza-Bangarada ,Khata-1522, Plot-3025,3348, KISSAM-, Lat-19°37'50.9"- 19°37'57.4", Long-84°36'48.0"-84°36'59.5"	NH-59	1	1	1.21	Black Topped	Black Topped	Govt	Mangalapur, NH-59-1.21
I7	Padhal Sand Bed AT-Padhal, Khata No-354, Plot No- 1946, KISSAM- Nadi	NH-157			3.85	Black Topped	Black Topped	Govt	Padhal, NH-157- 3.85
I8	Kendupadar Sand Bed AT-Kendupadar, Khata No-611, Plot No- 610,1265, KISSAM- Nadi	NH-59			1.86	Black Topped	Black Topped	Govt	Kendupadar, NH-59-1.86
I9	Nirala Sand Bed AT-Nirala, Khata No-316, Plot No-1791, KISSAM- Nadi	NH-157			1.85	Black Topped	Black Topped	Govt	Nirala, NH-157-1.85
I10	Khadabhaga Sand Bed AT-KHADABHAGA, Khata No-504(AAA), Plot No- 908, KISSAM- Nadi	NH-59			5.42	Black Topped	Black Topped	Govt	Khadabhaga, NH-59- 5.42
J1	Bishnuchakra Sand BedMouza-Bishnuchakra ,khata-913, Plot- 4045,kissam-,Lat-19°45'38.37"- 19°45'45.95", Long-84°45'58.18"- 84°40'05.05"	NH-157			4.73	Black Topped	Black Topped	Govt	Bishnuchakra, NH-157-4.73
K1	Bhereda Sand Bed Mouza-Bhereda ,khata-360, Plot-315, 662/P,kissam-,Lat-19°56'10.28"- 19°56'43.87Long- 84°36'24.65"- 84°36'49.93"	SH-37	3	6	0.54	Black Topped	Black Topped	Govt	Bhereda, SH-37-0.54
K2	Baruda Sand bed Mouza-Baruda ,khata-723,, Plot-1617/A,kissam-Lat-19°59'28,50"-19°59'39.13"Long-84°37'47.14"- 84°37'55.36"	SH-37	3		0.91	Black Topped	Black Topped	Govt	Baruda, SH- 0.91
K3	Badakodanda-I Sand Bed Mouza- Badakodanda ,khata-1430 ,, Plot-3625/A,kissam-Lat-Long-19°56'21.53"- 19°56'25.93" 87°33'56.62"- 84°34'10.75"	NH-157	1	2	2.2	Black Topped	Black Topped	Govt	Badakodanda, NH-157-2.2

K4	Gamundi Sand Bed Mouza- ,khata-999,339,kissam-, Plot-203/A,703/A,Lat-19°55'05.96"-91°55'20.70", Long- 84°35'19.52"- 84°35'39.17"	NH-157	1		1.52	Black Topped	Black Topped	Govt	Gamundi, NH-157-1.52
K5	Badakodanda- II Sand Bed Mouza-Badakodanda ,khata-1430, Plot-1991, kissam-,Lat-Long-84°32'19.15"- 84°32'58.07"	NH-157			3.45	Black Topped	Black Topped	Govt	Badakodanda, NH-157-3.45
L1	Nuagam Sand Bed AT-Nuagam, Khata No-969, Plot No- 125,292,291, Kissam- Nadi	SH-21			1.49	Black Topped	Black Topped	Govt	Nuagaon, SH-21-1.49
L2	Benipali Sand Bed Mouza-Benipalli ,khata-859, Plot-210,211,kissam-, Lat-20°50'35.11"- 20°51'00.95", Long- 84°37'29.19"- 84°37'35.73"	NH-157	2	2	6.79	Black Topped	Black Topped	Govt	Benipalli, NH-157-6.79
L3	Banka Sand Bed Mouza-Banka ,khata-852, Plot-2047,kissam-, Lat-19°49'30.60"- 19°49'44.77", Long-84°37'28.13"- 84°37'35.28"	NH-157			9.14	Black Topped	Black Topped	Govt	Banka, NH-157-9.41
L4	Suramani Sand Bed Mouza- Suramani,khata-232,Plot-659, 1/1725,kissam-, Lat- 19°48'35.62"- 19°48'57.34"Long- 84°37'47.25"- 84°37'54.87"	NH-157			4.61	Black Topped	Black Topped	Govt	Suramani, NH-157-4.61
L5	Girisola Sand Bed Mouza- Girisola,khata-970, Plot-1,kissam-, Lat-19°50'23.10"- 19°50'45.20", Long-84°37'32.80"- 84°37'44.70"	NH-157	1	1	1.57	Black Topped	Black Topped	Govt	Girisola, NH-157-1.57
L6	Kokolunda Sand Bed Mouza-Kokolunda ,khata-483, Plot-2141/2158,kissam-, Lat-19°50'23.10"- 19°50'45.20"Long- 84°38'50.14"- 84°29'02.28"	SH-30			0.92	Black Topped	Black Topped	Govt	Kokolunda, SH-30-0.92
L7	Ambapua Sand Bed Mouza-Ambapua ,khata-694, Plot-71/2179, 71, 1289,kissam-, Lat-19°42'31.39"- 19°51'48.82", Long- 84°38'23.25"- 84°39'19.60"	NH-157	1	1	3.62	Black Topped	Black Topped	Govt	Ambapua, NH-157-3.62
M1	Kandarasing Sand Bed Mouza-Kandarasing ,khata-567, Plot-3222,3112,3119,2794,2268 ,kissam-, Lat-19°54'16.19"- 19°54'36.46", Long- 84°43'18.57"- 84°43'42.15"	SH-21	2	3	1.62	Black Topped	Black Topped	Govt	Kandarasing, SH- 21-1.62
M2	Sorisamuli Sand Bed Mouza-Sorisamuli ,khata- 283, Plot-973,kissam-, Lat-19°53'16.80"- 19°53'28.28" Long- 84°41'56.93"- 84°42'12.65"	SH-21	1		1.51	Black Topped	Black Topped	Govt	Sorisamuli, SH- 21-1.51
M3	Tentulia Sand Bed Mouza-Tentulia ,khata-344, Plot-2043,kissam-, Lat-19°53'49.48"- 19°53'58.58"Long- 84°42'39.82"- 84°42'46.16"	SH-21			1.2	Black Topped	Black Topped	Govt	Tentulia, SH- 21-1.2
M4	Nimapadar Sand Bed Mouza-Nimapadara,khata-1472, Plot-744,kissam-, Lat-19°52'55.46"- 19°53'3.12", Long- 84°41'13.46"- 84°41'29.60"	SH-21	1	1	1.63	Black Topped	Black Topped	Govt	Nimapadara, SH- 21-1.63
N1	Santoshpur Sand bed Mouza- Santoshpur,khata-417, Plot-45,kissam-, Lat-19°32'01.85"- 19°32'01.86", Long-84°44'01.99"- 84°44'13.94"	NH-59	4	12	3.6	Black Topped	Black Topped	Govt	Santoshpur, NH-59-3.6

N2	Pakidi Sand bed Mouza-Pakidi ,khata-507, Plot-1,kissam-, Lat-19°33'08.55" - 19°33'31.43" Long-84°42'09.61"-84°42'25.91"	NH-59	4		1.82	Black Topped	Black Topped	Govt	Pakidi, NH-59-1.82
O1	G.P. Sasan Sand Bed Mouza- G.P. Sasan,khata-271, Plot-1501,kissam-, Lat-19°45'25.92"-19°45'35.17", Long- 84°27'03.73"- 84°27'17.06"	NH-59	1		3.8	Black Topped	Black Topped	Govt	G.P. Sasan, NH-59-3.8
P1	Kapilash Sand Bed Mouza-Kapilash ,khata-201, Plot-391,kissam-, Lat-19°38'52.41"- 19°29'11.89", Long- 84°35'22.36"- 84°35'37.34"	NH-59	3		0.8	Black Topped	Black Topped	Govt	Kapilash, NH-59-0.8
P2	Pankalbadi - B Sand Bed Mouza-Pankalabadi ,khata-319, Plot-1837,2231,kissam-, Lat-19°36'23.47"-19°36'27.53", Long- 84°38'20.24"- 84°38'38.68"	NH-59			1.8	Black Topped	Black Topped	Govt	Pankalabadi, NH-59-1.8
P3	Laxmipur Sand Bed Mouza-Laxmipur ,khata-189, Plot-302, 580(P),kissam-, Lat-19°37'06.32"-19°37'23.04"Long- 84°37'13.58"-84°37'20.96	NH-157	2	2	7.1	Black Topped	Black Topped	Govt	Laxmipur, NH-157-7.1
P4	Jahada Sand Bed Mouza- Jahada,khata-861, Plot-5680 ,5681,kissam-, Lat-19°40'41.98"- 19°40'51.90", Long- 84°33'37.19"- 84°33'53.23"	NH-59	2	2	0.97	Black Topped	Black Topped	Govt	Jahada, NH-59-0.97

Cluster No.	Transportation Route No.	Number of tippers/day of cluster	Number of tippers/day of all the cluster on route	Length of route in KM	Type of road (Black Topped/unpaved)	Recommendation for road (Black Topped/unpaved)	The road will be Constructed by Govt/Lease Owner	Route Map & Location
1	SH-32			1.72	Black Topped	Black Topped	Govt	Kanaka, SH-32-1.72
	SH-32	2	2	2.01	Black Topped	Black Topped	Govt	BHIMPUR, SH-32-2.01
2	NH-157	1	1	2.2	Black Topped	Black Topped	Govt	Badakodanda, NH-157-2.2
	NH-157			3.45	Black Topped	Black Topped	Govt	Badakodanda, NH-157-3.45
3	NH-157	2	3	6.79	Black Topped	Black Topped	Govt	Benipalli, NH-157-6.79
	NH-157	1		1.57	Black Topped	Black Topped	Govt	Girisola, NH-157-1.57

MINING LEASES (SAND) MARKED ON THE DISTRICT TOPO-MAP OF GANJAM



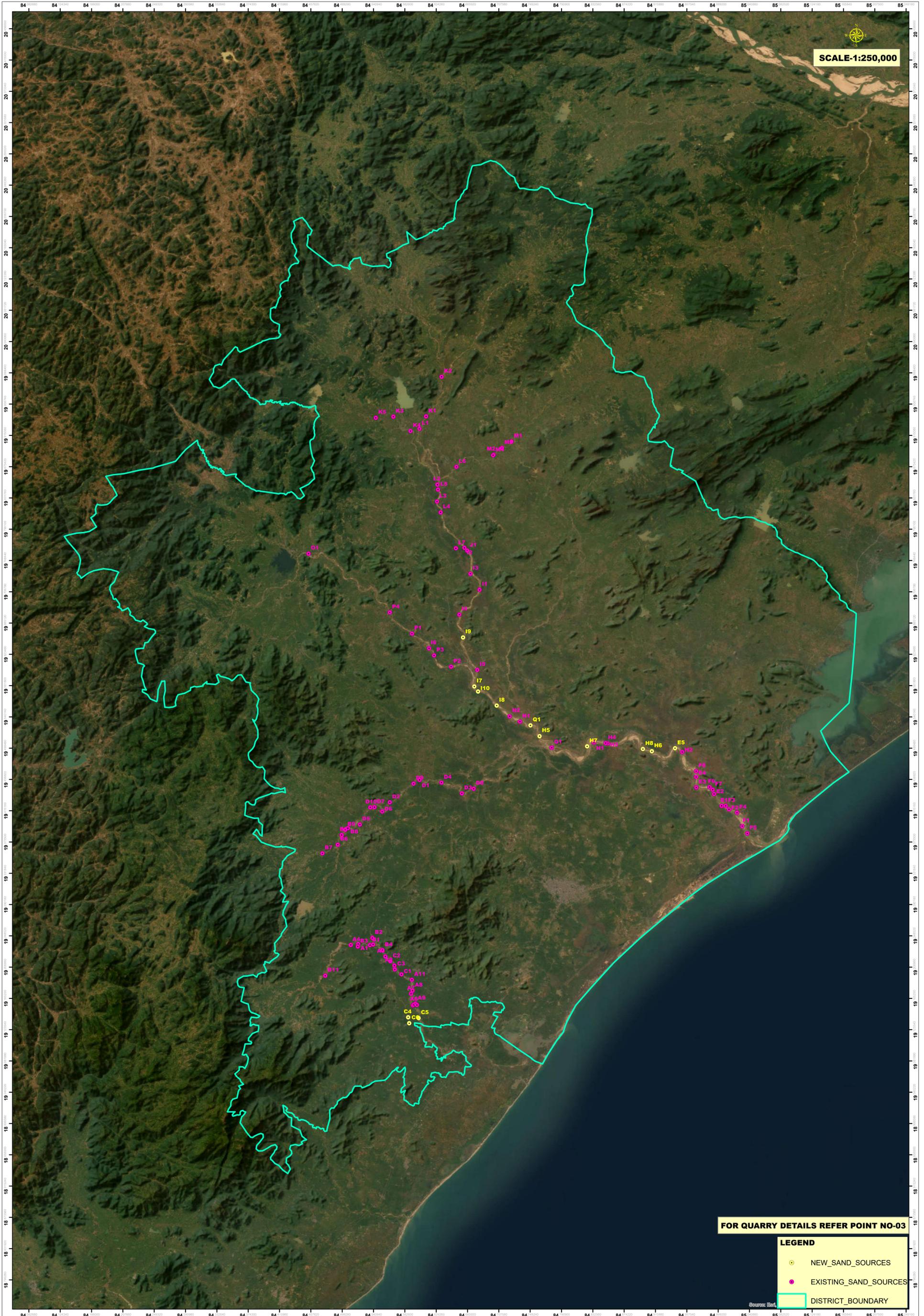
SCALE-1:250,000

FOR QUARRY DETAILS REFER POINT NO-03

LEGEND

- EXISTING_SAND_SOURCES
- NEW_SAND_SOURCES
- DISTRICT_BOUNDARY

MINING LEASES (SAND) MARKED ON THE DISTRICT SATELLITE-MAP OF GANJAM



SCALE-1:250,000

FOR QUARRY DETAILS REFER POINT NO-03

- LEGEND**
- NEW_SAND_SOURCES
 - EXISTING_SAND_SOURCES
 - DISTRICT_BOUNDARY