

“APPENDIX-X”

[See paragraph 7 (iii) (a)]

I. PROCEDURE FOR PREPARATION OF DISTRICT SURVEY REPORT FOR SAND MINING OR RIVER BED MINING

The main objective of the preparation of the District Survey Report (as per the Sustainable Sand Mining Guideline) is to ensure the following:-

Identification of area of aggradations or deposition where mining can be allowed; and identification of areas of erosion and proximity to infrastructural structures and installations where mining should be prohibited and calculation of annual rate of replenishment and allowing time for replenishment after mining in that area.

The report shall have the following structure:

- (1) Introduction: Deogarh district is consisting with three Tahasils and 774 villages
- (2) Overview of Mining Activity in the District:- Minor Mineral activities are done in Deogarh district
- (3) The List of Mining Leases in the District with location, area and period of validity:- Information given below in the format.
- (4) Details of Royalty or Revenue received in last three years:: Information given in the format
- (5) Detail of Production of Sand or Bajri or minor mineral in last three years; The information given in the format
- (6) Process of Decomposition of Sediments in the rivers of the District:: There are two rivers namely Brahmani and Tikira flowing in Deogarh district. Sand sediments
- (7) General Profile of the District;
- (8) Land Utilization Pattern in the district: Forest, Agriculture, Horticulture, Mining etc.;
- (9) Physiography of the District;
- (10) Rainfall: month-wise; Detailed rainfall report is given below :
- (11) Geology and Mineral Wealth.

In addition to the above, the report shall contain the following:

- (a) District wise detail of river or stream and other sand source;
- (b) District wise availability of sand or gravel : Sand is available in quarry river Brahmani and river Tikira
- (c) District wise detail of existing mining leases of sand and aggregates.

A survey has been carried out by the District Environment Impact Assessment Authority with the assistance of Executive Engineer M.I Division Deogarh in the district.

Drainage system with description of main rivers

S. No.	Name of the River	Area drained (Sq. Km)	% Area drained in the District
(1)	Brahmani river	40Sq.Km	10%
(2)	Tikira river	10 Sq.Km	10%

Salient Features of Important Rivers and Streams:

S. No.	Name of the River or Stream	Total Length in the District (in Km)	Place of origin	Altitude at Origin
(1)	Brahmani	40	Sundargarh dist.	
(2)	Tikira	10	Sambalpur dist.	

Portion of the River or Stream Concession	Name of the Source	Khata No.	Plot No.	Kisam	Area in Ac.	Length of area recommended for mineral concession (in kilometer)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in square meter)	Mineable mineral potential (in metric tonne) (60% of total mineral potential)
	Karlaga sand quarry	202	2425(p) 2455(p)	Nadi	Ac.12.30	0.586	0.065	60800Sqm	32855
	Para sand quarry	122	271(p)	Nadi	Ac.12.35	0.530	0.093	49978.88	55888
	Kundheigola (Kha) sand quarry	304	406 & 769/3226(p)	Nadi	Ac.12.35	0.800	0.059	50570	41717
	Samapali sand quarry	22	346	Nadi	Ac.9.90	0.800	0.047	50584	36309

Mineral Potential		Sand (MT)	Total Mineable Mineral Potential (MT)
Boulder (MT)	Bajri (MT)		
-	--	31464	54758
-	-	76705	93147
		49450	69529
		40480	60501

Annual Deposition

S. No.	Name of the River or Stream	Total Length in the District (in Km)	Place of origin
(1)	Brahmani	40	Sundargarh dist.
2	Tikra	10	Sambalpur dist.

Portion of the River or Stream Recommended for Mineral Concession					Length of area recommended for mineral concession (in kilometer)	Average width of area recommended for mineral concession (in meters)	Area recommended for mineral concession (in square meter)	Mineable mineral potential (in metric tonne) (60% of total mineral potential)
Name of the Source	Khata No.	Plot No.	Kisam	Area in Ac.				
Karлага sand quarry	202	2425(p) 2455(p)	Nadi	Ac.12.30	0.586	0.065	49776Sqgm	32855
Para sand quarry	122	271(p)	Nadi	Ac.12.35	0.530	0.093	49978.88	55888
Kundheigola (Kha) sand quarry	304	406 & 769/3226(p)	Nadi	Ac.12.35	0.800	0.059	49978.88	41717
Samapali sand quarry	22	346	Nadi	Ac.9.90	0.800	0.047	40064	36309

Details of Royalty or Revenue received in last three years

Sl.No.	Name of the quarry	Amount collected during last three years	2017-18	2018-19	2019-20
1	Karlaga sand quarry	-	-	-	-
2	Para sand quarry	-	-	-	-
3	Kundheigola (Kha) sand quarry	-	-	-	-
4	Samapali sand quarry	-	-	-	-

Details of production of minor minerals in last 3 years

Sl.No.	Name of the quarry	Amount collected during last three years	2017-18	2018-19	2019-20
1	Karlaga sand quarry	-	-	-	-
2	Para sand quarry	-	-	-	-
3	Kundheigola (Kha) sand quarry	-	-	-	-
4	Samapali sand quarry	-	-	-	-

List of mining lease with address and location area and period of validity.

Sl.No	Name of the source	Name of the lease	Address & contact no.of the leasee	Mining grant order No. & date	lease No.	Area of mining lease(ha)	Period of mining lease	Period of lease(1 st /2 nd renewal)	of mining renewal
1	2	3	4	5	6	7	8	9	10
01	Karlaga sand quarry	Not auctioned	Not yet auctioned	Does not arise	Ac.12.30	2020-21	2024-25	Does not arise	
02	Para sand quarry	Not auctioned	Not yet auctioned	Does not arise	Ac.12.35	2020-21	2024-25	Does not arise	
03	Kundheigola (Kha) sand quarry	Not auctioned	Not yet auctioned	Does not arise	Ac.12.50	2020-21	2024-25	Does not arise	
04	Samapali sand quarry	Not auctioned	Not yet auctioned	Does not arise	Ac.9.90	2020-21	2024-25	Does not arise	

Date of commencement of mining operation	Status(Working/Non-working/Temporary working for dispatch)	Captive/Non-captive	Obtained environmental clearance(Yes/No)	Location of the Mining lease(Latitude & Longitude)	Method of mining (opencast/underground)
11	12	13	14	15	16
2020-21	Non Working	Captive	No	Latitude N2114'14.86" to N2114'29.97"N Longitude E8452'58.03" to E845309.03"E	opencast
2020-21	Non Working	Captive	No	Latitude N2111'5672" to 2111'5672"N and Longitude E8453'51.74" to E845408.34"E	Opencast
2020-21	Non Working	Captive	No	Latitude N2113'01.8 to N2113'15.7" Longitude E8446'42.5" to 8447'16.8"	Open cast
2020-21	Non Working	Captive	No	Latitude N2115'30.80"N to N2115'4123" Longitude E8435'50.19" to E8436'13.64"E	Open cast


 Executive Engineer(M.I Division)
 Deogarh

**FORMAT FOR PREPARATION OF DISTRICT SURVEY REPORT FOR MINOR MINERALS OTHER THAN SAND
MINING OF RIVER BED.**

- (1) Introduction: Deo garh district consist of 3 Tahasils and 774 villages
- (2) Overview of Mining Activity in the District; Mining activity of minor minerals were done as per OMMC Rule-2016
- (3) General Profile of the District; General profile of Deo garh district is available in District web site.
- (4) Geology of the District :- It is reflected in the mining plan of the concerned quarry approved by the Deputy Director Geology, Sambalpur..
- (5) Drainage of Irrigation pattern:- Two rivers namely Brahmani and Tikira are flowing.
- (6) Land Utilization Pattern in the District: Forest, Agriculture, Horticulture, Mining etc.; as per govt. norm land has been utilised
- (7) Surface Water and Ground Water scenario of the district; It is available in the office of E.E RWSS, Deo garh
- (8) Rainfall of the district and climate condition; Rain fall and climate condition of the district is normal during the year-2019-20
- (9) Details of the mining leases in the District as per the following formats:-

Sl. No.	Name of the mineral	Name of the Lessee	Address & Contact No. of Lessee	Mining Order No. & date	Area of Mining lease (ha)	Period of Mining lease (Initial)		Period of Mining (Opencast/Underground)	
						From	To	From	To
1									
2									
1	Lakhabahal stone quarry	New source	Not auctioned		0.7203	2020-21	2024-25	Open cast	

Date of commencement of Mining Operation	Status (Working/Non Working/Temp. Working for dispatch etc.)	Captive/Non-Captive	Obtained Environmental Clearance (Yes/No), If Yes Letter No with date of grant of EC	Location of the Mining lease (Latitude & Longitude)	Method of Mining (Opencast/Underground)
11	12	13	14	15	16
2020-21	Working	Captive	Not yet received	Latitude 21°20'58.20"N to 21°21'01.66"N Longitude 84°37'11.14" to 84°37'14.65"E	Opencast

(10) Details of Royalty or Revenue received in last three years;

SINo	Name of the quarry	Amount collected	2018-19	2019-20
1	Lakhabahal dtone quarry	-New source	--	--

(11) details of Production of Minor Mineral in last three years;

SINo	Name of the quarry	As per mining plan year wise production of last three years
1	Lakhabahal stone quarry	-

(12) Mineral Map of the District; The map is available in DD Mines Sambalpur

(13) list of letter of Intent (LOI) Holders in the District along with its validity as per the following format:-

(14) Total Mineral Reserve available in the District;

Sl. No.	Name of the Mineral	Name of the Lessee	Address & Contact No. of Letter of the Intent Holder	Letter of Intent Grant Order No. & date	Area of Mining lease to be allotted	Validity of Lol	Use (Captive/ Non-Captive)	Location of the Mining lease (Latitude & Longitude)
1	2	3	4	5	6	7	8	9
1	Lakhabahal stone quarry	Yet to be auctioned	-	-	0.7203	2020-21	2024-25	Latitude 2120°58.20" to 2121°01.66"N Longitude 8437°11.14" to 8437°14.65"E

(15) Quality/Grade of Mineral available in the District; Good quality mineral available

(16) Use of Mineral; As per the demand the minerals has been used.

(17) Demand and supply of the Mineral in the last three years; Demand and supply of materials are equal

(18) Mining leases marked on the map of the district;

(19) Details of the area of where there is a cluster of mining leases viz. number of mining leases, location (latitude and longitude);No cluster of mining lease is available in Deogarh district.

(20) Details of Eco-Sensitive Area, if any, in the District;-No bad effect on eco-system

(21). Impact on the Environment (Air, Water, Noise, Soil, Flora&Fauna, land use, agriculture, forest etc.) due to mining activity;No bad impact

(22) Remedial Measures to mitigate the impact of mining on the Environment; Does not arise

23.Reclamation of Mined out area (best practice already implemented in the district, requirement as per rules and regulation, proposed reclamation plan);

24.Risk Assessment & Disaster Management Plan; Does not arise

25. Details of the Occupational Health issues in the District. (Last five year data of number of patient of Silicosis & Tuberculosis is also needs to be submitted);No such case arise

26. Plantation and Green Belt development in respect of leases already granted in the District;It will be done as per govt.norm

27. Any other information.:
The District Environment Impact Assessment Authority (DEIAA) based on the nature and type of minor mineral in the District may include the additional parameters in the District Survey Report in consultation with the Department of Mines and Geology of the concerned State Government.

The District Survey Report shall form the basis for application for environmental clearance, preparation of reports and appraisal of projects. The Report shall be updated once every five years”;


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