PROCEEDING OF THE SUB-DIVISIONAL COMMITTEE MEETING OF BALLIGUDA SUB-DIVISION FOR FINALIZATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES (SAND, STONE,MORRUM) OF KANDHAMAL DISTRICT HELD ON DATE 06/11/2024 AT 11.00 A.M. IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting on Sub-Divisional level Committee for finalization of Draft District Survey report of Kandhamal District was convened on dtd.06/11/2024 at 11.00 A.M. with the Chairmanship of Sub-Collector, Balliguda in the Sadbhabana Sabhagruha of Collectorate, Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Sub-Collector-cum-Chairman, Sub-Divisional level Committee welcomed to all members.

The Chairman initiating the discussion on the existing non-operational Sand sources as in annexure-II (B) page-3, existing operational Sand sources as in annexure-II (A) page- 4-5, existing Operational stone sources as in annexure-I (A) page- 7-8, non-operational existing as in annexure-I (B) page -9. Proposed Stone sources as an annexure-I (C) page- 12-13, proposed morrum quarry as in annexure-I (D) page- 14-15.The total numbers of existing Sand sairat sources-10, numbers of existing Stone sources-11, proposed new Stone sources-27, proposed new Morrum sources-13, which conclude grand total sairat sources in Balliguda Sub-division is **61Nos**.

After discussion sub-Divisional level committee unanimously agreed for approval of 61 numbers sairat sources in the committee & recommended to the district level committee, kandhamal for consideration and further transmission to the State Environmental Impact Assessment Authority.

The meeting ended with votes of thanks to the chair and all members.

6/11/24

Sub-Collector and SDM,Balliguda
Chairman

6/11/24

Executive Engineer (Irrigation/WR),Phulbani
(for) Member

For Nabajyoti Sangar AEE SPCB
RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member-Convener

PROCEEDING OF THE SUB-DIVISIONAL COMMITTEE MEETING OF BALLIGUDA SUB-DIVISION FOR FINALIZATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES (SAND, STONE,MORRUM) OF KANDHAMAL DISTRICT HELD ON DATE 06/11/2024 AT 11.00 A.M. IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting on Sub-Divisional level Committee for finalization of Draft District Survey report of Kandhamal District was convened on dtd.06/11/2024 at 11.00 A.M. with the Chairmanship of Sub-Collector, Balliguda in the Sadbhabana Sabhagruha of Collectorate, Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Sub-Collector-cum-Chairman, Sub-Divisional level Committee welcomed to all members.

The Chairman initiating the discussion on the existing non-operational Sand sources as in annexure-II (B) page-3, existing operational Sand sources as in annexure-II (A) page- 4-5, existing Operational stone sources as in annexure-I (A) page- 7-8, non-operational existing as in annexure-I (B) page -9. Proposed Stone sources as an annexure-I (C) page- 12-13, proposed morrum quarry as in annexure-I (D) page- 14-15.The total numbers of existing Sand sairat sources-10, numbers of existing Stone sources-11, proposed new Stone sources-27, proposed new Morrum sources-13, which conclude grand total sairat sources in Balliguda Sub-division is **61Nos**.

After discussion sub-Divisional level committee unanimously agreed for approval of 61 numbers sairat sources in the committee & recommended to the district level committee, kandhamal for consideration and further transmission to the State Environmental Impact Assessment Authority.

The meeting ended with votes of thanks to the chair and all members.

6/11/24

Sub-Collector and SDM,Balliguda
Chairman

6/11/24

Executive Engineer (Irrigation/WR),Phulbani
(for)
Member

for Nabajyoti Bengra, AEE, LPCD
RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member-Convener

PROCEEDING OF THE SUB-DIVISIONAL COMMITTEE MEETING OF BALLIGUDA SUB-DIVISION FOR FINALIZATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES (SAND, STONE,MORRUM) OF KANDHAMAL DISTRICT HELD ON DATE 06/11/2024 AT 11.00 A.M. IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting on Sub-Divisional level Committee for finalization of Draft District Survey report of Kandhamal District was convened on dtd.06/11/2024 at 11.00 A.M. with the Chairmanship of Sub-Collector, Balliguda in the Sadbhabana Sabhagruha of Collectorate, Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Sub-Collector-cum-Chairman, Sub-Divisional level Committee welcomed to all members.

The Chairman initiating the discussion on the existing non-operational Sand sources as in annexure-II (B) page-3, existing operational Sand sources as in annexure-II (A) page- 4-5, existing Operational stone sources as in annexure-I (A) page- 7-8, non-operational existing as in annexure-I (B) page -9. Proposed Stone sources as an annexure-I (C) page- 12-13, proposed morrum quarry as in annexure-I (D) page- 14-15.The total numbers of existing Sand sairat sources-10, numbers of existing Stone sources-11, proposed new Stone sources-27, proposed new Morrum sources-13, which conclude grand total sairat sources in Balliguda Sub-division is **61Nos**.

After discussion sub-Divisional level committee unanimously agreed for approval of 61 numbers sairat sources in the committee & recommended to the district level committee, kandhamal for consideration and further transmission to the State Environmental Impact Assessment Authority.

The meeting ended with votes of thanks to the chair and all members.

6/11/24

Sub-Collector and SDM,Balliguda
Chairman

6/11/24 AEE

Executive Engineer (Irrigation/WR),Phulbani
Member

for Nabajyoti Anugya, AEE, SPCB

RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member-Convener

PROCEEDING OF THE SUB-DIVISIONAL COMMITTEE MEETING OF BALLIGUDA SUB-DIVISION FOR FINALIZATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES (SAND, STONE,MORRUM) OF KANDHAMAL DISTRICT HELD ON DATE 06/11/2024 AT 11.00 A.M. IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting on Sub-Divisional level Committee for finalization of Draft District Survey report of Kandhamal District was convened on dtd.06/11/2024 at 11.00 A.M. with the Chairmanship of Sub-Collector, Balliguda in the Sadbhabana Sabhagruha of Collectorate, Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Sub-Collector-cum-Chairman, Sub-Divisional level Committee welcomed to all members.

The Chairman initiating the discussion on the existing non-operational Sand sources as in annexure-II (B) page-3, existing operational Sand sources as in annexure-II (A) page- 4-5, existing Operational stone sources as in annexure-I (A) page- 7-8, non-operational existing as in annexure-I (B) page -9. Proposed Stone sources as an annexure-I (C) page- 12-13, proposed morrum quarry as in annexure-I (D) page- 14-15.The total numbers of existing Sand sairat sources-10, numbers of existing Stone sources-11, proposed new Stone sources-27, proposed new Morrum sources-13, which conclude grand total sairat sources in Balliguda Sub-division is **61Nos**.

After discussion sub-Divisional level committee unanimously agreed for approval of 61 numbers sairat sources in the committee & recommended to the district level committee, kandhamal for consideration and further transmission to the State Environmental Impact Assessment Authority.

The meeting ended with votes of thanks to the chair and all members.

6/11/24

Sub-Collector and SDM,Balliguda
Chairman

6/11/24 AEE

Executive Engineer (Irrigation/WR),Phulbani
(for) Member

Subhajyoti Banerjee, AEE, SPCB

RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member-Convener

PROCEEDING OF THE SUB-DIVISIONAL COMMITTEE MEETING OF BALLIGUDA SUB-DIVISION FOR FINALIZATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES (SAND, STONE,MORRUM) OF KANDHAMAL DISTRICT HELD ON DATE 06/11/2024 AT 11.00 A.M. IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting on Sub-Divisional level Committee for finalization of Draft District Survey report of Kandhamal District was convened on dtd.06/11/2024 at 11.00 A.M. with the Chairmanship of Sub-Collector, Balliguda in the Sadbhabana Sabhagruha of Collectorate, Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Sub-Collector-cum-Chairman, Sub-Divisional level Committee welcomed to all members.

The Chairman initiating the discussion on the existing non-operational Sand sources as in annexure-II (B) page-3, existing operational Sand sources as in annexure-II (A) page- 4-5, existing Operational stone sources as in annexure-I (A) page- 7-8, non-operational existing as in annexure-I (B) page -9. Proposed Stone sources as an annexure-I (C) page- 12-13, proposed morrum quarry as in annexure-I (D) page- 14-15.The total numbers of existing Sand sairat sources-10, numbers of existing Stone sources-11, proposed new Stone sources-27, proposed new Morrum sources-13, which conclude grand total sairat sources in Balliguda Sub-division is **61Nos**.

After discussion sub-Divisional level committee unanimously agreed for approval of 61 numbers sairat sources in the committee & recommended to the district level committee, kandhamal for consideration and further transmission to the State Environmental Impact Assessment Authority.

The meeting ended with votes of thanks to the chair and all members.

6/11/24

Sub-Collector and SDM,Balliguda
Chairman

6/11/24 AEE

Executive Engineer(Irrigation/WR),Phulbani
Member

for Sabyasachi Dangna, AEE, LPCB
RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member-Convener

MEMBER PRESENT IN THE SUB-DIVISIONAL LEVEL COMMITTEE MEETING OF BALLIGUDA SUB-DIVISION HELD ON 06.11.2024 AT 11.00 AM IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL

Sl. No.	Name & Designation	Phone No.	Signature
1	Smt. Rina Pradhan, IAS, Subcollector, Balliguda	8249694792	6/11/24.
2	Sahish kumar Dhanu AEE, Balliguda	7978094683	6/11/24
3	Nabajyoti Bergya, AEE SPCB, Udiya	7894114030	6/11/24
4	Soumya Pradhan Geologist	9437116831	06.11.24
5	Biswajit Balabantaray O/O Kandhamal Irr. Dvn. Phulbani	7978890572	06/11/24
6	Dr. Debabrata Mohanty DDM I/c., O/O M.O. Phulbani	9937319842	6.11.24
7	—		
8	Iswara chandra Pradhan. M.O. Member of Convener	9556040135	6-11-24
9			
10			
11			
12			

PROCEEDING OF THE SUB-DIVISIONAL COMMITTEE MEETING OF PHULBANI SUB-DIVISION FOR FINALIZATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES (SAND, STONE,MORRUM) OF KANDHAMAL DISTRICT HELD ON DATE 06/11/2024 AT 11.00 A.M. IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting on sub-divisional level committee for finalization of Draft District Survey report of kandhamal District was convened 06/11/2024 at 11.A.M with the Chairmanship of sub Collector, Phulbani in the sadbhabana Sabhagruha of Collectorate Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Sub-Collector-Cum –Chairman, Sub-Divisional level committee welcomed to all members.

The Chairman initiating the discussion on the sand existing sources as in annexure –II(A) (page-1&2),proposed stones sources as in annexed I(C) page 10-11, proposed morrum sources as in I(D) page-16.The total numbers of existing Sand sairat sources-05, proposed new Stone sources-25 and proposed new Morrum sairat sources-05, which conclude grand total sairat sources in Phulbani Sub-division is **35 Nos**.

After discussion Sub-Divisional level committee unanimously agreed for approval of 35 numbers sairat sources in the committee & recommended to the district level committee, Kandhamal for consideration and further transmission to the State Environmental Impact Assessment Authority.

The meeting ended with votes of thanks to the chair and all members

06.11.24

Sub-Collector and SDM,Phulbani
Chairman

06/11/24 AEE,
Executive Engineer (Irrigation/WR),Phulbani
(for)
Member

For Nabojyoti Sangar, AEE, SPCB
RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member-Convener

PROCEEDING OF THE SUB-DIVISIONAL COMMITTEE MEETING OF PHULBANI SUB-DIVISION FOR FINALIZATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES (SAND, STONE,MORRUM) OF KANDHAMAL DISTRICT HELD ON DATE 06/11/2024 AT 11.00 A.M. IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting on sub-divisional level committee for finalization of Draft District Survey report of kandhamal District was convened 06/11/2024 at 11.A.M with the Chairmanship of sub Collector, Phulbani in the sadbhabana Sabhagruha of Collectorate Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Sub-Collector-Cum –Chairman, Sub-Divisional level committee welcomed to all members.

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After discussion Sub-Divisional level committee unanimously agreed for approval of 35 numbers sairat sources in the committee & recommended to the district level committee, Kandhamal for consideration and further transmission to the State Environmental Impact Assessment Authority.

The meeting ended with votes of thanks to the chair and all members

6.11.24

Sub-Collector and SDM,Phulbani
Chairman

6/11/24 AEE

Executive Engineer (Irrigation/WR),Phulbani
(Ch)
Member

For Nabajyoti Bengam, AEE SPCB
RO of State Pollution Control Board
Berhampur Division
Member

06.11.24

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

6.11.24

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

6.11.24

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

06.11.24

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

6.11.24

Mining Officer,Minor Mineral
Kandhamal
Member-Convener

PROCEEDING OF THE SUB-DIVISIONAL COMMITTEE MEETING OF PHULBANI SUB-DIVISION FOR FINALIZATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES (SAND, STONE,MORRUM) OF KANDHAMAL DISTRICT HELD ON DATE 06/11/2024 AT 11.00 A.M. IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting on sub-divisional level committee for finalization of Draft District Survey report of kandhamal District was convened 06/11/2024 at 11.A.M with the Chairmanship of sub Collector, Phulbani in the sadbhabana Sabhagruha of Collectorate Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Sub-Collector-Cum –Chairman, Sub-Divisional level committee welcomed to all members.

The Chairman initiating the discussion on the sand existing sources as in annexure –II(A) (page-1&2),proposed stones sources as in annexed I(C) page 10-11, proposed morrum sources as in I(D) page-16.The total numbers of existing Sand sairat sources-05, proposed new Stone sources-25 and proposed new Morrum sairat sources-05, which conclude grand total sairat sources in Phulbani Sub-division is **35 Nos**.

After discussion Sub-Divisional level committee unanimously agreed for approval of 35 numbers sairat sources in the committee & recommended to the district level committee, Kandhamal for consideration and further transmission to the State Environmental Impact Assessment Authority.

The meeting ended with votes of thanks to the chair and all members

6.11.24

Sub-Collector and SDM,Phulbani
Chairman

06/11/24 AEE

Executive Engineer (Irrigation/WR),Phulbani
(for)
Member

Per Debajyoti Bangar, AEE SPCB

RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member-Convener

PROCEEDING OF THE SUB-DIVISIONAL COMMITTEE MEETING OF PHULBANI SUB-DIVISION FOR FINALIZATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES (SAND, STONE,MORRUM) OF KANDHAMAL DISTRICT HELD ON DATE 06/11/2024 AT 11.00 A.M. IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting on sub-divisional level committee for finalization of Draft District Survey report of kandhamal District was convened 06/11/2024 at 11.A.M with the Chairmanship of sub Collector, Phulbani in the sadbhabana Sabhagruha of Collectorate Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Sub-Collector-Cum –Chairman, Sub-Divisional level committee welcomed to all members.

The Chairman initiating the discussion on the sand existing sources as in annexure –II(A) (page-1&2),proposed stones sources as in annexed I(C) page 10-11, proposed morrum sources as in I(D) page-16.The total numbers of existing Sand sairat sources-05, proposed new Stone sources-25 and proposed new Morrum sairat sources-05, which conclude grand total sairat sources in Phulbani Sub-division is **35 Nos**.

After discussion Sub-Divisional level committee unanimously agreed for approval of 35 numbers sairat sources in the committee & recommended to the district level committee, Kandhamal for consideration and further transmission to the State Environmental Impact Assessment Authority.

The meeting ended with votes of thanks to the chair and all members

06.11.24

Sub-Collector and SDM,Phulbani
Chairman

6/11/24 AEE

Executive Engineer (Irrigation/WR),Phulbani
(for)
Member

Dabojyoti Sangma, AEE, SPCB

RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ ACF, Phulbani
Member

Divisional Forest Officer/ ACF, Baliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer, Minor Mineral
Kandhamal, 2
Member Convener

PROCEEDING OF THE SUB-DIVISIONAL COMMITTEE MEETING OF PHULBANI SUB-DIVISION FOR FINALIZATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES (SAND, STONE,MORRUM) OF KANDHAMAL DISTRICT HELD ON DATE 06/11/2024 AT 11.00 A.M. IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting on sub-divisional level committee for finalization of Draft District Survey report of kandhamal District was convened 06/11/2024 at 11.A.M with the Chairmanship of sub Collector, Phulbani in the sadbhabana Sabhagruha of Collectorate Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Sub-Collector-Cum –Chairman, Sub-Divisional level committee welcomed to all members.

The Chairman initiating the discussion on the sand existing sources as in annexure –II(A) (page-1&2),proposed stones sources as in annexed I(C) page 10-11, proposed morrum sources as in I(D) page-16.The total numbers of existing Sand sairat sources-05, proposed new Stone sources-25 and proposed new Morrum sairat sources-05, which conclude grand total sairat sources in Phulbani Sub-division is **35 Nos**.

After discussion Sub-Divisional level committee unanimously agreed for approval of 35 numbers sairat sources in the committee & recommended to the district level committee, Kandhamal for consideration and further transmission to the State Environmental Impact Assessment Authority.

The meeting ended with votes of thanks to the chair and all members

06.11.24

Sub-Collector and SDM,Phulbani
Chairman

06/11/24 AEE

Executive Engineer (Irrigation/WR),Phulbani
Member

for Debajyoti Sengupta, AEE, SPCB

RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ ACF Phulbani
Member

Divisional Forest Officer/ ACF Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle
Member

Geologist from O/o Joint Director Geology of
South Zone Berhampur
Member

Mining Officer(Minor Mineral)
Kandhamal
Member Convener

MEMBER PRESENT IN THE SUB-DIVISIONAL LEVEL COMMITTEE MEETING OF PHULBANI SUB-DIVISION HELD ON 06.11.2024 AT 11.00 AM IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL

Sl. No.	Name & Designation	Phone No.	Signature
1	Chittaranjan Mohanty Sub Collector, Phulbani	7683930845	06.11.24
2	Swetaleena Sahu ACF Phulbani	9937950388	06/11/24
3	Nabagyoti Bunga, AEE SPCB, Odisha	7894114030	6/11/24
4	Soumya Pradhan Geologist.	9428116821	06.11.24
5	Biswajit Balabantaray O/O Kandhamal Irrigation dvn. Phulbani	7978390572	06/11/24
6	Dr. Debabrata Pradhan DDM Incharge O/o M.O. Phulbani	9337319842	6/11/24
7	—		
8	—		
9	—		
10	Iswara Chandra Pradhan, M.O. Member & Convener	9556040135	6-11-24
11			
12			

PROCEEDING OF THE DISTRICT LEVEL EXPERT APPRAISAL COMMITTEE MEETING FOR PREPARATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES(SAND , STONE,MORRUM) OF KANDHAMAL DISTRTICT HELD ON 28/11/2024 AT 04.00 P.M IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting of District level expert appraisal committee for preparation of Draft District Survey report of Kandhamal District was convened on 28/11/2024 at 04.00 P.M with the Chairmanship of Collector, Phulbani in the Sadbhabana Sabhagruha of Collectorate Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Collector–Cum-Chairman, District level expert appraisal committee welcomed to all members. Initiating discussion the chairman emphasized on proposed area for new sources and existing sources submission of DSR on minor mineral sources to the SEIAA for approval.

Discussed about existing sairat Sand sources as in annexure-II(A), II(B) page-1,2,3,4,5 & existing stone sources annexure I(A) and I(B) page- 7,8,9 and proposed stone sources as in annexure I(C) page- 10,11,12,13 & proposed Morrum quarry as in annexure-I(D) page-14,15,16 of Balliguda and Phulbani Sub-division.

In this regard, a Joint Verification was conducted on dated 09.07.2024 with participated of all concerned Officials, Assistant Conservator of Forests of Balliguda Forest Division, A.E.E, Irrigarion Division, Kandhamal, Phulbani, A.E.E, SPCB, Odisha, Minning Officer, Kandhamal, Phulbani and Geologist etc. and discussed details/feasibility of aforementioned resources, which need to be addressed while giving permission (Copy Enclosed).

At last existing Sand sources 15 Nos., existing Stone sources 11 Nos., proposed Stone sources 52Nos. and proposed Morrum sources 11Nos., which conclude gross totaling sairat sources **96 Nos**. were accepted and approved by District level committee members for the inclusion of its in the DSR & prior to that send to public in the NIC website for the period of 21 days as per notification issued by the Ministry of Environment, Forest & Climate Change, Govt. of India. The Collector cum Chairman advised all the Tahasildars to go through the report of minor mineral sources & to report to the District office during the objection period which is 30 days from the date of webhosting. All the department and experts were

28/11/2024
AEE, Balliguda

also requested to incorporate further suggestion/ views or any additional information during the objection period.

After thorough study, analysis and discussion, the District level expert appraisal committee unanimously resolved to webhost the DSR on minor mineral sources (Sand, Stone, Morrum). The district informatics officer Kandhamal was instructed to webhost the enclosed DSR immediately.

The meeting ended with votes of thanks to the chair and all members

Collector -cum- Chairman, Kandhamal
District level expert appraisal committee

Additional District Magistrate, (Revenue),
Phulbani

Sub-Collector and SDM,Phulbani
Member

Sub-Collector and SDM,Balliguda
Member

Executive Engineer (Irrigation/WR),Phulbani
(for)
Member

RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member Convener

New Sairat Sources at Baliguda subdivision , Joint verification report

S.I	Dist	Tahasil	Name of the mineral	Village	Area in Ha.	Khata No.	Plot No.	Kissam	Latitide/ Long	R.I circle	Findings
1	Kandamala	daringbadi	Stone	Sitapanga	2	22(AAA)	199	parbat	20.001/84.118	simanbadi	Sala jungle(more than 300 trees) movment of wild animal, RF
2	Kandamala	daringbadi	Stone	Sitapanga	2	22(AAA)	200	parbat	19.998/84.118	simanbadi	Sala jungle(more than 300 trees) movment of wild animal, RF
3	Kandamala	daringbadi	Stone	Laribadi	3	24(AAA)	87	parbat	19.999/84.114	simanbadi	Sala jungle(more than 300 trees) movment of wild animal, RF
4	Kandamala	daringbadi	Stone	Simanbadi	1.6	389(AAA)	2498/1	parbat	19.972/84.082	simanbadi	Sala jungle (more than 300 trees) within 200 meters basti.
5	Kandamala	daringbadi	Stone	Simanbadi	0.8	389(AAA)	2500	parbat	19.971/84.854	simanbadi	Sala jungle (more than 300 trees) within 200 meters basti.
6	Kandamala	daringbadi	Stone	Ludubandha	2.28	60(AAA)	255	parbat	20.033037/84.051023	Daringbadi	Sala jungle(more than 300 trees) movment of wild animal, bushy forest,200 meter from basti.20 to 30% canopy density.
7	Kandamala	daringbadi	stone	Ludubandha	1.68	60(AAA)	257	parbat	120.033037/84.051023	Daringbadi	Sala jungle(more than 300 trees) movment of wild animal, bushy forest,200 meter from basti.20 to 30% canopy density.
8	Kandamala	daringbadi	Morrum	Pangali	2	63 Rakhita	53	Gochar	19.856733/84.094286	Daringbadi	Sal tree 10 to 40% canopy density, open forest ,nearest forest Pangoli PRF , near to ecletric wares

ACF Baliguda
01/07/2024

01-7-24
M.O. Kandhamal

9	Kandamala	daringbadi	stone	Bharamarabadi	1.36	53(AAA)	58/346	patharabani	19.836969/84.180990	Daringbadi	Within 50 meter basti, 0 to 10% canopy density, mixed forest, banyan tree,simul tree, asan,kendu, dimiri, mango,bahada trees.
10	Kandamala	daringbadi	Morrum	Sidangapadar	0.4	31(AAA)	59	parbat	19.904056/84.160563	Daringbadi	Ghat, sala jungle(more than 300 trees)
11	Kandamala	daringbadi	Morrum	Makapata	0.18	32(AAA)	165/181	Jungle	19.906408/84.155080	Daringbadi	Jungle, 0 to 10% canopy density , open forest, exiting VSS Plantation
12	Kandamala	daringbadi	Morrum	Makapata	0.23	32(AAA)	165/182	Jungle	19.906335/84.155080	Daringbadi	Jungle, 0 to 10% canopy density , open forest, exiting VSS Plantation
13	Kandamala	daringbadi	Morrum	Brahamlka	0.4	31(AAA)	243	parbat	19.900573/84.163729	Daringbadi	Parbata Misrita Jungle, Existing plantation, ANR with out gap 50 to 70% canopy density, wild animals movment, sala jungle(more than 300 trees) .
14	Kandamala	daringbadi	Stone	Mahaguda	1.76	99(AAA)	967/976	parbat	19.678218/84.166669883	Daringbadi	Mix Forest,10 to 20% canopy density, wild boar, rabbit, barking deer movment, 200 & avobe difrent types of species, sal, piasal, mi,siris,dhaura,kusuma,jari, valia,kaju,banian tree, looks like open forest.
15	Kandamala	daringbadi	Stone	Ludubandha	2.280,	60(AAA)	255/257	parbat	20.0330/84.0510	Simanbadi	Sala Jungle(more than 300 trees)
16	Kandamala	Raikia	Stone	Sahajkhal	9.36	49(AAA)	39/449	parbat		Ranaba	85% canopy density, tiger & elephant movment , daha dam 200 meter distance
17	Kandamala	Raikia	Stone	Tatamaha	2.14	177(AAA)	341/760	Gochar		Mandakia	Sala, Mahula, Mango, Saguan 10 to 20% canopy density

09/07/2024

9/7-24 MO Kandhamal

18	Kandamala	Balliguda	Stone	Badagaon	0.233	108	21	parbat	20.217973/83.908852	Balliguda	75% canopy density ,urban plantation 20,000 plants,sala,mahula,piasala, bear & hyena movments, 30 meter near to RF Baliguda
19	Kandamala	Balliguda	Stone	Dungerikia	12	56	380	parbat	20.070595/83.802894	Balliguda	Sala Jungle(more than 300 trees)
20	Kandamala	Balliguda	Stone	Dungerikia	10	56	394	parbat	20.068586/83.804124	Balliguda	Sala Jungle(more than 300 trees)
21	Kandamala	Balliguda	Stone	Dungerikia	15.09	56	394	parbat	20.067066/83.804604	Balliguda	Sala Jungle(more than 300 trees)
22	Kandamala	Balliguda	Stone	Dungerikia	5.29	56	380/463	parbat	20.070580/83.806424	Balliguda	Sala Jungle(more than 300 trees)
23	Kandamala	Balliguda	Stone	Dungerikia	10.63	56	363/464	parbat	20.068529/83.807308	Balliguda	Sala Jungle(more than 300 trees)
24	Kandamala	Balliguda	Stone	Sirubali	5	33	16/393	parbat	20.250525/83.830314	Barakhama	Sala Jungle(more than 300 trees)
25	Kandamala	Balliguda	Stone	Kutikia	9.28	230	447/178	parbat	20.294430/83.9032011	Sindirgaon	Sala Jungle(more than 300 trees)
26	Kandamala	Balliguda	Stone	Kutikia	7.698	230	382/178	parbat	20.298396/83.889937	Sindirgaon	Sala Jungle(more than 300 trees)
27	Kandamala	Balliguda	Stone	Salaguda	3.5	74	835	parbat	20.265070/83.857277	Salagudu	Sala Jungle(more than 300 trees)
28	Kandamala	Balliguda	Stone	Salaguda	2	73	833/848	parbat	20.263644/83.850079	Salagudu	Patra jungle(more than 300 trees)
29	Kandamala	Balliguda	Stone	Salaguda	7			Reserve Forest	20.268080/83.862136	Salagudu	Reserve Forest
30	Kandamala	Balliguda	Stone	Khamankhol	2.675	81	528	Patharabani	20.371402/83.741516	Landagaon	Wild animals movment,kusuma,mahula
31	Kandamala	Balliguda	Stone	Bindhadangar	2.4	1	1	Sala jungle	20.405605/83.669736	Landagaon	Sala jungle(more than 300 trees) , very near to village
32	Kandamala	Balliguda	Morrum	Gadringia	9.943	57	16	jungle patra	20.123404/83.830517	Batagada	Patra jungle(more than 300 trees)
33	Kandamala	Balliguda	Morrum	Muthabali	19.94	77	44	Parbat	20.411524/83.709753	Landagaon	sala jungle(more than 300 trees)

ACF Balliguda 09/07/24

09-7-24 MD. Kathamal

34	Kandamala	Balliguda	Morrum	Sindirgaon	19.92	206	1409	jungle patra jungle	20.228624/83.937251	Sindirgaon	Sala jungle,wild animals movments. 25 to 50 canopy density,30cm daya sala jungle.
35	Kandamala	Balliguda	Morrum	Barakhama	5.6	347	587	Gochar	20.24268/83.836305	Barakhama	**Feasible after convertation**
36	Kandamala	Balliguda	Morrum	Dapasahi	2	37	1	Parbat	20.228615/83.926531	Salaguda	Sala mixed jungle(more than 300 trees)
37	Kandamala	Balliguda	Morrum	Balliguda	7	771	2806	Patra jungle	20.186666/83.902097	Balliguda	sala bushy forest(more than 300 trees)
38	Kandamala	Tumudibandha	Stone	Dadanga	3.176H	16	158	Patita	20.004754/83.42678	Tumudiband	forest, sala jungle(more than 300 trees)
39	Kandamala	K.Nuagaon	Morrum	Kanjanehdi	1.000H	233	10	Patra jungle	20.139766/84006875		forest, sala jungle(more than 300 trees)
40	Kandamala	K.Nuagaon	Morrum	sarangada	0.100H	483	1550	Patra jungle	20.218703/84.119667		forest, sala jungle(morethan 300 trees)

AEE, 09/7/24
Kandhamal Irr. Div.
Phulbani

Nabajyoti Bangar, AEE
SPCB, Bolangir

9-7-24
M.U.
Kandhamal

ACF, Balliguda
Forest Division.
09/07/2024

Geologist
09/7/24

PROCEEDING OF THE DISTRICT LEVEL EXPERT APPRAISAL COMMITTEE MEETING FOR PREPARATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES(SAND , STONE,MORRUM) OF KANDHAMAL DISTRTICT HELD ON 28/11/2024 AT 04.00 P.M IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting of District level expert appraisal committee for preparation of Draft District Survey report of Kandhamal District was convened on 28/11/2024 at 04.00 P.M with the Chairmanship of Collector, Phulbani in the Sadbhabana Sabhagruha of Collectorate Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Collector–Cum-Chairman, District level expert appraisal committee welcomed to all members. Initiating discussion the chairman emphasized on proposed area for new sources and existing sources submission of DSR on minor mineral sources to the SEIAA for approval.

Discussed about existing sairat Sand sources as in annexure-II(A), II(B) page-1,2,3,4,5 & existing stone sources annexure I(A) and I(B) page- 7,8,9 and proposed stone sources as in annexure I(C) page- 10,11,12,13 & proposed Morrum quarry as in annexure-I(D) page-14,15,16 of Balliguda and Phulbani Sub-division.

In this regard, a Joint Verification was conducted on dated 09.07.2024 with participated of all concerned Officials, Assistant Conservator of Forests of Balliguda Forest Division, A.E.E, Irrigarion Division, Kandhamal, Phulbani, A.E.E, SPCB, Odisha, Minning Officer, Kandhamal, Phulbani and Geologist etc. and discussed details/feasibility of aforementioned resources, which need to be addressed while giving permission (Copy Enclosed).

At last existing Sand sources 15 Nos., existing Stone sources 11 Nos., proposed Stone sources 52Nos. and proposed Morrum sources 11Nos., which conclude gross totaling sairat sources **96 Nos**. were accepted and approved by District level committee members for the inclusion of its in the DSR & prior to that send to public in the NIC website for the period of 21 days as per notification issued by the Ministry of Environment, Forest & Climate Change, Govt. of India. The Collector cum Chairman advised all the Tahasildars to go through the report of minor mineral sources & to report to the District office during the objection period which is 30 days from the date of webhosting. All the department and experts were

28/11/2024
RLF, Balliguda

also requested to incorporate further suggestion/ views or any additional information during the objection period.

After thorough study, analysis and discussion, the District level expert appraisal committee unanimously resolved to webhost the DSR on minor mineral sources (Sand, Stone, Morrum). The district informatics officer Kandhamal was instructed to webhost the enclosed DSR immediately.

The meeting ended with votes of thanks to the chair and all members

Collector -cum- Chairman, Kandhamal
District level expert appraisal committee

Kind sir

Additional District Magistrate, (Revenue),
Phulbani

Sub-Collector and SDM,Phulbani
Member

Sub-Collector and SDM,Balliguda
Member

Executive Engineer (Irrigation/WR),Phulbani
(fn)
Member

for Nabajyoti Nergru, AEE, SPCB
RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member-Convener

New Sairat Sources at Baliguda subdivision , Joint verification Report

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Act Baliguda
04/07/2024

04-7-24
M.O. Kantamal

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09/07/2024

9-7-24 MO Kandhamal

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ACF 09/07/24

09-7-24 MD. Kathamal

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AEE, 09/7/24
Kandhamal Irr. Div.
Phulbani

Nabajyoti Singh, AEE
SPCB, Bhubaneswar

9-7-24
M.U.
Kandhamal

ACF, Balliguda
Forest Division.
09/07/2024

Geologist
09/7/24

PROCEEDING OF THE DISTRICT LEVEL EXPERT APPRAISAL COMMITTEE MEETING FOR PREPARATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES(SAND , STONE,MORRUM) OF KANDHAMAL DISTRTICT HELD ON 28/11/2024 AT 04.00 P.M IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting of District level expert appraisal committee for preparation of Draft District Survey report of Kandhamal District was convened on 28/11/2024 at 04.00 P.M with the Chairmanship of Collector, Phulbani in the Sadbhabana Sabhagruha of Collectorate Kandhamal.

The attendance of the members of this meeting is annexed separately.

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In this regard, a Joint Verification was conducted on dated 09.07.2024 with participated of all concerned Officials, Assistant Conservator of Forests of Balliguda Forest Division, A.E.E, Irrigarion Division, Kandhamal, Phulbani, A.E.E, SPCB, Odisha, Minning Officer, Kandhamal, Phulbani and Geologist etc. and discussed details/feasibility of aforementioned resources, which need to be addressed while giving permission (Copy Enclosed).

At last existing Sand sources 15 Nos., existing Stone sources 11 Nos., proposed Stone sources 52Nos. and proposed Morrum sources 11Nos., which conclude gross totaling sairat sources **96 Nos**. were accepted and approved by District level committee members for the inclusion of its in the DSR & prior to that send to public in the NIC website for the period of 21 days as per notification issued by the Ministry of Environment, Forest & Climate Change, Govt. of India. The Collector cum Chairman advised all the Tahasildars to go through the report of minor mineral sources & to report to the District office during the objection period which is 30 days from the date of webhosting. All the department and experts were

28/11/2024
AEE. Balliguda

also requested to incorporate further suggestion/ views or any additional information during the objection period.

After thorough study, analysis and discussion, the District level expert appraisal committee unanimously resolved to webhost the DSR on minor mineral sources (Sand, Stone, Morrum). The district informatics officer Kandhamal was instructed to webhost the enclosed DSR immediately.

The meeting ended with votes of thanks to the chair and all members

Collector -cum- Chairman, Kandhamal
District level expert appraisal committee

Kind signature
28/11/2024

Additional District Magistrate, (Revenue),
Phulbani

Sub-Collector and SDM,Phulbani
Member

Sub-Collector and SDM,Balliguda
Member

Executive Engineer (Irrigation/WR),Phulbani
Member

for Nabajyoti Bangra, AEE, SPCB
RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
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Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
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New Sairat Sources at Baliguda subdivision , Joint verification Report

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1	Kandamala	daringbadi	Stone	Sitapanga	2	22(AAA)	199	parbat	20.001/84.118	simanbadi	Sala jungle(more than 300 trees) movment of wild animal, RF
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3	Kandamala	daringbadi	Stone	Laribadi	3	24(AAA)	87	parbat	19.999/84.114	simanbadi	Sala jungle(more than 300 trees) movment of wild animal, RF
4	Kandamala	daringbadi	Stone	Simanbadi	1.6	389(AAA)	2498/1	parbat	19.972/84.082	simanbadi	Sala jungle (more than 300 trees) within 200 meters basti.
5	Kandamala	daringbadi	Stone	Simanbadi	0.8	389(AAA)	2500	parbat	19.971/84.854	simanbadi	Sala jungle (more than 300 trees) within 200 meters basti.
6	Kandamala	daringbadi	Stone	Ludubandha	2.28	60(AAA)	255	parbat	20.033037/84.051023	Daringbadi	Sala jungle(more than 300 trees) movment of wild animal, bushy forest,200 meter from basti.20 to 30% canopy density.
7	Kandamala	daringbadi	stone	Ludubandha	1.68	60(AAA)	257	parbat	120.033037/84.051023	Daringbadi	Sala jungle(more than 300 trees) movment of wild animal, bushy forest,200 meter from basti.20 to 30% canopy density.
8	Kandamala	daringbadi	Morrum	Pangali	2	63 Rakhita	53	Gochar	19.856733/84.094286	Daringbadi	Sal tree 10 to 40% canopy density, open forest ,nearest forest Pangoli PRF , near to ecletric wares

ACF Baliguda
09/07/2024

09-7-24
M.O. Kantamal

9	Kandamala	daringbadi	stone	Bharamarabadi	1.36	53(AAA)	58/346	patharabani	19.836969/84.180990	Daringbadi	Within 50 meter basti, 0 to 10% canopy density, mixed forest, banyan tree,simul tree, asan,kendu, dimiri, mango,bahada trees.
10	Kandamala	daringbadi	Morrum	Sidangapadar	0.4	31(AAA)	59	parbat	19.904056/84.160563	Daringbadi	Ghat, sala jungle(more than 300 trees)
11	Kandamala	daringbadi	Morrum	Makapata	0.18	32(AAA)	165/181	Jungle	19.906408/84.155080	Daringbadi	Jungle, 0 to 10% canopy density , open forest, exiting VSS Plantation
12	Kandamala	daringbadi	Morrum	Makapata	0.23	32(AAA)	165/182	Jungle	19.906335/84.155080	Daringbadi	Jungle, 0 to 10% canopy density , open forest, exiting VSS Plantation
13	Kandamala	daringbadi	Morrum	Brahamlka	0.4	31(AAA)	243	parbat	19.900573/84.163729	Daringbadi	Parbata Misrita Jungle, Existing plantation, ANR with out gap 50 to 70% canopy density, wild animals movment, sala jungle(more than 300 trees) .
14	Kandamala	daringbadi	Stone	Mahaguda	1.76	99(AAA)	967/976	parbat	19.678218/84.166669883	Daringbadi	Mix Forest,10 to 20% canopy density, wild boar, rabbit, barking deer movment, 200 & avobe difrent types of species, sal, piasal, mi,siris,dhaura,kusuma,jari, valia,kaju,banian tree, looks like open forest.
15	Kandamala	daringbadi	Stone	Ludubandha	2.280,	60(AAA)	255/257	parbat	20.0330/84.0510	Simanbadi	Sala Jungle(more than 300 trees)
16	Kandamala	Raikia	Stone	Sahajkhal	9.36	49(AAA)	39/449	parbat		Ranaba	85% canopy density, tiger & elephant movment , daha dam 200 meter distance
17	Kandamala	Raikia	Stone	Tatamaha	2.14	177(AAA)	341/760	Gochar		Mandakia	Sala, Mahula, Mango, Saguan 10 to 20% canopy density

09/07/2024

9.7.24 MO Kandhamal

18	Kandamala	Balliguda	Stone	Badagaon	0.233	108	21	parbat	20.217973/83.908852	Balliguda	75% canopy density ,urban plantation 20,000 plants,sala,mahula,piasala, bear & hyena movments, 30 meter near to RF Baliguda
19	Kandamala	Balliguda	Stone	Dungerikia	12	56	380	parbat	20.070595/83.802894	Balliguda	Sala Jungle(more than 300 trees)
20	Kandamala	Balliguda	Stone	Dungerikia	10	56	394	parbat	20.068586/83.804124	Balliguda	Sala Jungle(more than 300 trees)
21	Kandamala	Balliguda	Stone	Dungerikia	15.09	56	394	parbat	20.067066/83.804604	Balliguda	Sala Jungle(more than 300 trees)
22	Kandamala	Balliguda	Stone	Dungerikia	5.29	56	380/463	parbat	20.070580/83.806424	Balliguda	Sala Jungle(more than 300 trees)
23	Kandamala	Balliguda	Stone	Dungerikia	10.63	56	363/464	parbat	20.068529/83.807308	Balliguda	Sala Jungle(more than 300 trees)
24	Kandamala	Balliguda	Stone	Sirubali	5	33	16/393	parbat	20.250525/83.830314	Barakhama	Sala Jungle(more than 300 trees)
25	Kandamala	Balliguda	Stone	Kutikia	9.28	230	447/178	parbat	20.294430/83.9032011	Sindirgaon	Sala Jungle(more than 300 trees)
26	Kandamala	Balliguda	Stone	Kutikia	7.698	230	382/178	parbat	20.298396/83.889937	Sindirgaon	Sala Jungle(more than 300 trees)
27	Kandamala	Balliguda	Stone	Salaguda	3.5	74	835	parbat	20.265070/83.857277	Salagudu	Sala Jungle(more than 300 trees)
28	Kandamala	Balliguda	Stone	Salaguda	2	73	833/848	parbat	20.263644/83.850079	Salagudu	Patra jungle(more than 300 trees)
29	Kandamala	Balliguda	Stone	Salaguda	7			Reserve Forest	20.268080/83.862136	Salagudu	Reserve Forest
30	Kandamala	Balliguda	Stone	Khamankhol	2.675	81	528	Patharabani	20.371402/83.741516	Landagaon	Wild animals movment,kusuma,mahula
31	Kandamala	Balliguda	Stone	Bindhadangar	2.4	1	1	Sala jungle	20.405605/83.669736	Landagaon	Sala jungle(more than 300 trees) , very near to village
32	Kandamala	Balliguda	Morrum	Gadringia	9.943	57	16	jungle patra	20.123404/83.830517	Batagada	Patra jungle(more than 300 trees)
33	Kandamala	Balliguda	Morrum	Muthabali	19.94	77	44	Parbat	20.411524/83.709753	Landagaon	sala jungle(more than 300 trees)

ACF 02/07/24

02-7-24 MO. Kadhamal

34	Kandamala	Balliguda	Morrum	Sindirgaon	19.92	206	1409	jungle patra jungle	20.228624/83.937251	Sindirgaon	Sala jungle,wild animals movments, 25 to 50 canopy density,30cm daya sala jungle
35	Kandamala	Balliguda	Morrum	Barakhama	5.6	347	587	Gochar	20.24268/83.836305	Barakhama	**Feasible after convertation**
36	Kandamala	Balliguda	Morrum	Dapasahi	2	37	1	Parbat	20.228615/83.926531	Salaguda	Sala mixed jungle(more than 300 trees)
37	Kandamala	Balliguda	Morrum	Balliguda	7	771	2806	Patra jungle	20.186666/83.902097	Balliguda	sala bushy forest(more than 300 trees)
38	Kandamala	Tumudibandha	Stone	Dadanga	3.176H	16	158	Patita	20.004754/83.42678	Tumudiband	forest, sala jungle(more than 300 trees)
39	Kandamala	K.Nuagaon	Morrum	Kanjanehdi	1.000H	233	10	Patra jungle	20.139766/84006875		forest, sala jungle(more than 300 trees)
40	Kandamala	K.Nuagaon	Morrum	sarangada	0.100H	483	1550	Patra jungle	20.218703/84.119667		forest, sala jungle(morethan 300 trees)

AEE, 09/7/24
Kandhamal Irr. Div.
Phulbani

Nabajyoti Bangar, AEE
SPCB, Bolangir

9.7.24
M.U.
Kandhamal

AEE, Balliguda
Forest Division.
09/07/2024

Geologist
09/7/24

PROCEEDING OF THE DISTRICT LEVEL EXPERT APPRAISAL COMMITTEE MEETING FOR PREPARATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES(SAND , STONE,MORRUM) OF KANDHAMAL DISTRTICT HELD ON 28/11/2024 AT 04.00 P.M IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting of District level expert appraisal committee for preparation of Draft District Survey report of Kandhamal District was convened on 28/11/2024 at 04.00 P.M with the Chairmanship of Collector, Phulbani in the Sadbhabana Sabhagruha of Collectorate Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Collector–Cum-Chairman, District level expert appraisal committee welcomed to all members. Initiating discussion the chairman emphasized on proposed area for new sources and existing sources submission of DSR on minor mineral sources to the SEIAA for approval.

Discussed about existing sairat Sand sources as in annexure-II(A), II(B) page-1,2,3,4,5 & existing stone sources annexure I(A) and I(B) page- 7,8,9 and proposed stone sources as in annexure I(C) page- 10,11,12,13 & proposed Morrum quarry as in annexure-I(D) page-14,15,16 of Balliguda and Phulbani Sub-division.

In this regard, a Joint Verification was conducted on dated 09.07.2024 with participated of all concerned Officials, Assistant Conservator of Forests of Balliguda Forest Division, A.E.E, Irrigarion Division, Kandhamal, Phulbani, A.E.E, SPCB, Odisha, Minning Officer, Kandhamal, Phulbani and Geologist etc. and discussed details/feasibility of aforementioned resources, which need to be addressed while giving permission (Copy Enclosed).

At last existing Sand sources 15 Nos., existing Stone sources 11 Nos., proposed Stone sources 52Nos. and proposed Morrum sources 11Nos., which conclude gross totaling sairat sources **96 Nos**. were accepted and approved by District level committee members for the inclusion of its in the DSR & prior to that send to public in the NIC website for the period of 21 days as per notification issued by the Ministry of Environment, Forest & Climate Change, Govt. of India. The Collector cum Chairman advised all the Tahasildars to go through the report of minor mineral sources & to report to the District office during the objection period which is 30 days from the date of webhosting. All the department and experts were

28/11/2024
ACF, Balliguda

also requested to incorporate further suggestion/ views or any additional information during the objection period.

After thorough study, analysis and discussion, the District level expert appraisal committee unanimously resolved to webhost the DSR on minor mineral sources (Sand, Stone, Morrum). The district informatics officer Kandhamal was instructed to webhost the enclosed DSR immediately.

The meeting ended with votes of thanks to the chair and all members

Kind signature 28/11/2024

Collector -cum- Chairman, Kandhamal
District level expert appraisal committee

Additional District Magistrate, (Revenue),
Phulbani

Sub-Collector and SDM,Phulbani
Member

Sub-Collector and SDM,Balliguda
Member

Executive Engineer (Irrigation/WR),Phulbani
Member

RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member Convener

New Sairat Sources at Baliguda subdivision , Joint verification report

S.I	Dist	Tahasil	Name of the mineral	Village	Area in Ha.	Khata No.	Plot No.	Kissam	Latitide/ Long	R.I circle	Findings
1	Kandamala	daringbadi	Stone	Sitapanga	2	22(AAA)	199	parbat	20.001/84.118	simanbadi	Sala jungle(more than 300 trees) movment of wild animal, RF
2	Kandamala	daringbadi	Stone	Sitapanga	2	22(AAA)	200	parbat	19.998/84.118	simanbadi	Sala jungle(more than 300 trees) movment of wild animal, RF
3	Kandamala	daringbadi	Stone	Laribadi	3	24(AAA)	87	parbat	19.999/84.114	simanbadi	Sala jungle(more than 300 trees) movment of wild animal, RF
4	Kandamala	daringbadi	Stone	Simanbadi	1.6	389(AAA)	2498/1	parbat	19.972/84.082	simanbadi	Sala jungle (more than 300 trees) within 200 meters basti.
5	Kandamala	daringbadi	Stone	Simanbadi	0.8	389(AAA)	2500	parbat	19.971/84.854	simanbadi	Sala jungle (more than 300 trees) within 200 meters basti.
6	Kandamala	daringbadi	Stone	Ludubandha	2.28	60(AAA)	255	parbat	20.033037/84.051023	Daringbadi	Sala jungle(more than 300 trees) movment of wild animal, bushy forest,200 meter from basti.20 to 30% canopy density.
7	Kandamala	daringbadi	stone	Ludubandha	1.68	60(AAA)	257	parbat	120.033037/84.051023	Daringbadi	Sala jungle(more than 300 trees) movment of wild animal, bushy forest,200 meter from basti.20 to 30% canopy density.
8	Kandamala	daringbadi	Morrum	Pangali	2	63 Rakhita	53	Gochar	19.856733/84.094286	Daringbadi	Sal tree 10 to 40% canopy density, open forest ,nearest forest Pangoli PRF , near to ecletric wares

ACF Baliguda
09/07/2024

09-7-24
M.O. Kandhamal

9	Kandamala	daringbadi	stone	Bharamarabadi	1.36	53(AAA)	58/346	patharabani	19.836969/84.180990	Daringbadi	Within 50 meter basti, 0 to 10% canopy density, mixed forest, banyan tree,simul tree, asan,kendu, dimiri, mango,bahada trees
10	Kandamala	daringbadi	Morrum	Sidangapadar	0.4	31(AAA)	59	parbat	19.904056/84.160563	Daringbadi	Ghat, sala jungle(more than 300 trees)
11	Kandamala	daringbadi	Morrum	Makapata	0.18	32(AAA)	165/181	Jungle	19.906408/84.155080	Daringbadi	Jungle, 0 to 10% canopy density , open forest, exiting VSS Plantation
12	Kandamala	daringbadi	Morrum	Makapata	0.23	32(AAA)	165/182	Jungle	19.906335/84.155080	Daringbadi	Jungle, 0 to 10% canopy density , open forest, exiting VSS Plantation
13	Kandamala	daringbadi	Morrum	Brahamlka	0.4	31(AAA)	243	parbat	19.900573/84.163729	Daringbadi	Parbata Misrita Jungle, Existing plantation, ANR with out gap 50 to 70% canopy density, wild animals movment, sala jungle(more than 300 trees)
14	Kandamala	daringbadi	Stone	Mahaguda	1.76	99(AAA)	967/976	parbat	19.678218/84.166669883	Daringbadi	Mix Forest,10 to 20% canopy density, wild boar, rabbit, barking deer movment, 200 & avobe difrent types of species, sal, piasal, mi,siris,dhaura,kusuma,jari, valia,kaju,banian tree, looks like open forest.
15	Kandamala	daringbadi	Stone	Ludubandha	2.280,	60(AAA)	255/257	parbat	20.0330/84.0510	Simanbadi	Sala Jungle(more than 300 trees)
16	Kandamala	Raikia	Stone	Sahajkhal	9.36	49(AAA)	39/449	parbat		Ranaba	85% canopy density, tiger & elephant movment , daha dam 200 meter distance
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ACF 09/07/2024

9.7-24 MO Kandhamal

18	Kandamala	Balliguda	Stone	Badagaon	0.233	108	21	parbat	20.217973/83.908852	Balliguda	75% canopy density ,urban plantation 20,000 plants,sala,mahula,piasala, bear & hyena movments, 30 meter near to RF Baliguda
19	Kandamala	Balliguda	Stone	Dungerikia	12	56	380	parbat	20.070595/83.802894	Balliguda	Sala Jungle(more than 300 trees)
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23	Kandamala	Balliguda	Stone	Dungerikia	10.63	56	363/464	parbat	20.068529/83.807308	Balliguda	Sala Jungle(more than 300 trees)
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26	Kandamala	Balliguda	Stone	Kutikia	7.698	230	382/178	parbat	20.298396/83.889937	Sindirgaon	Sala Jungle(more than 300 trees)
27	Kandamala	Balliguda	Stone	Salaguda	3.5	74	835	parbat	20.265070/83.857277	Salagudu	Sala Jungle(more than 300 trees)
28	Kandamala	Balliguda	Stone	Salaguda	2	73	833/848	parbat	20.263644/83.850079	Salagudu	Patra jungle(more than 300 trees)
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33	Kandamala	Balliguda	Morrum	Muthabali	19.94	77	44	Parbat	20.411524/83.709753	Landagaon	sala jungle(more than 300 trees)

Ref 12/07/24
09/07/24

09-7-24 MD. Kashmal

34	Kandamala	Balliguda	Morrum	Sindirgaon	19.92	206	1409	jungle patra jungle	20.228624/83.937251	Sindirgaon	Sala jungle,wild animals movin 25 to 50 canopy density,30cm daya sala jungle.
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AEE, 09/7/24
Kandhamal Irr. Div,
Phulbani

Nabajyoti Singh, AEE
SPCB, Bolangir

9-7-24
M.U.
Kandhamal

ACF, Balliguda
Forest Division,
09/07/2024

09/7/24

PROCEEDING OF THE DISTRICT LEVEL EXPERT APPRAISAL COMMITTEE MEETING FOR PREPARATION OF DRAFT DISTRICT SURVEY REPORT ON MINOR MINERAL SOURCES(SAND , STONE,MORRUM) OF KANDHAMAL DISTRTICT HELD ON 28/11/2024 AT 04.00 P.M IN THE SADBHABANA SABHAGRUHA OF COLLECTORATE, KANDHAMAL.

The meeting of District level expert appraisal committee for preparation of Draft District Survey report of Kandhamal District was convened on 28/11/2024 at 04.00 P.M with the Chairmanship of Collector, Phulbani in the Sadbhabana Sabhagruha of Collectorate Kandhamal.

The attendance of the members of this meeting is annexed separately.

At the outset Collector–Cum-Chairman, District level expert appraisal committee welcomed to all members. Initiating discussion the chairman emphasized on proposed area for new sources and existing sources submission of DSR on minor mineral sources to the SEIAA for approval.

Discussed about existing sairat Sand sources as in annexure-II(A), II(B) page-1,2,3,4,5 & existing stone sources annexure I(A) and I(B) page- 7,8,9 and proposed stone sources as in annexure I(C) page- 10,11,12,13 & proposed Morrum quarry as in annexure-I(D) page-14,15,16 of Balliguda and Phulbani Sub-division.

In this regard, a Joint Verification was conducted on dated 09.07.2024 with participated of all concerned Officials, Assistant Conservator of Forests of Balliguda Forest Division, A.E.E, Irrigarion Division, Kandhamal, Phulbani, A.E.E, SPCB, Odisha, Minning Officer, Kandhamal, Phulbani and Geologist etc. and discussed details/feasibility of aforementioned resources, which need to be addressed while giving permission (Copy Enclosed).

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28/11/2024
ACF, Balliguda

also requested to incorporate further suggestion/ views or any additional information during the objection period.

After thorough study, analysis and discussion, the District level expert appraisal committee unanimously resolved to webhost the DSR on minor mineral sources (Sand, Stone, Morrum). The district informatics officer Kandhamal was instructed to webhost the enclosed DSR immediately.

The meeting ended with votes of thanks to the chair and all members

Kind signature
28/11/2024

Collector -cum- Chairman, Kandhamal
District level expert appraisal committee

Additional District Magistrate, (Revenue),
Phulbani

Sub-Collector and SDM,Phulbani
Member

Sub-Collector and SDM,Balliguda
Member

Executive Engineer (Irrigation/WR),Phulbani
Member

For Nabajyoti Bergra, AEE, SPCB
RO of State Pollution Control Board
Berhampur Division
Member

Divisional Forest Officer/ACF,Phulbani
Member

Divisional Forest Officer/ACF,Balliguda
Member

Deputy Director of Mines(Minor Mineral)
Concerned Circle,
Member

Deputy Director of Mines(Specified Minor Mineral)
Concerned Circle,
Member

Geologist from O/o Joint Director Geology of
South Zone, Berhampur
Member

Mining Officer,Minor Mineral
Kandhamal
Member-Convener

New Sairat Sources at Baliguda subdivision , Joint verification report

S.I	Dist	Tahasil	Name of the mineral	Village	Area in Ha.	Khata No.	Plot No.	Kissam	Latitide/ Long	R.I circle	Findings
1	Kandamala	daringbadi	Stone	Sitapanga	2	22(AAA)	199	parbat	20.001/84.118	simanbadi	Sala jungle(more than 300 trees) movment of wild animal, RF
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5	Kandamala	daringbadi	Stone	Simanbadi	0.8	389(AAA)	2500	parbat	19.971/84.854	simanbadi	Sala jungle (more than 300 trees) within 200 meters basti.
6	Kandamala	daringbadi	Stone	Ludubandha	2.28	60(AAA)	255	parbat	20.033037/84.051023	Daringbadi	Sala jungle(more than 300 trees) movment of wild animal, bushy forest,200 meter from basti.20 to 30% canopy density.
7	Kandamala	daringbadi	stone	Ludubandha	1.68	60(AAA)	257	parbat	120.033037/84.051023	Daringbadi	Sala jungle(more than 300 trees) movment of wild animal, bushy forest,200 meter from basti.20 to 30% canopy density.
8	Kandamala	daringbadi	Morrum	Pangali	2	63 Rakhita	53	Gochar	19.856733/84.094286	Daringbadi	Sal tree 10 to 40% canopy density, open forest ,nearest forest Pangoli PRF , near to ecletric wares

ACF Baliguda
09/07/2024

09-7-24
M.O. Kantamal

9	Kandamala	daringbadi	stone	Bharamarabadi	1.36	53(AAA)	58/346	patharabani	19.836969/84.180990	Daringbadi	Within 50 meter basti, 0 to 10% canopy density, mixed forest, banyan tree,simul tree, asan,kendu, dimiri, mango,bahada trees.
10	Kandamala	daringbadi	Morrum	Sidangapadar	0.4	31(AAA)	59	parbat	19.904056/84.160563	Daringbadi	Ghat, sala jungle(more than 300 trees)
11	Kandamala	daringbadi	Morrum	Makapata	0.18	32(AAA)	165/181	Jungle	19.906408/84.155080	Daringbadi	Jungle, 0 to 10% canopy density , open forest, exiting VSS Plantation
12	Kandamala	daringbadi	Morrum	Makapata	0.23	32(AAA)	165/182	Jungle	19.906335/84.155080	Daringbadi	Jungle, 0 to 10% canopy density , open forest, exiting VSS Plantation
13	Kandamala	daringbadi	Morrum	Brahamlka	0.4	31(AAA)	243	parbat	19.900573/84.163729	Daringbadi	Parbata Misrita Jungle, Existing plantation, ANR with out gap 50 to 70% canopy density, wild animals movment, sala jungle(more than 300 trees) .
14	Kandamala	daringbadi	Stone	Mahaguda	1.76	99(AAA)	967/976	parbat	19.678218/84.166669883	Daringbadi	Mix Forest,10 to 20% canopy density, wild boar, rabbit, barking deer movment, 200 & avobe difrent types of species, sal, piasal, mi,siris,dhaura,kusuma,jari, valia,kaju,banian tree, looks like open forest.
15	Kandamala	daringbadi	Stone	Ludubandha	2.280,	60(AAA)	255/257	parbat	20.0330/84.0510	Simanbadi	Sala Jungle(more than 300 trees)
16	Kandamala	Raikia	Stone	Sahajkhal	9.36	49(AAA)	39/449	parbat		Ranaba	85% canopy density, tiger & elephant movment , daha dam 200 meter distance
17	Kandamala	Raikia	Stone	Tatamaha	2.14	177(AAA)	341/760	Gochar		Mandakia	Sala, Mahula, Mango, Saguan 10 to 20% canopy density

ACF Baliguda
09/07/2024

9/7-24 MO Kandhamal

18	Kandamala	Balliguda	Stone	Badagaon	0.233	108	21	parbat	20.217973/83.908852	Balliguda	75% canopy density ,urban plantation 20,000 plants,sala,mahula,piasala, bear & hyena movments, 30 meter near to RF Baliguda
19	Kandamala	Balliguda	Stone	Dungerikia	12	56	380	parbat	20.070595/83.802894	Balliguda	Sala Jungle(more than 300 trees)
20	Kandamala	Balliguda	Stone	Dungerikia	10	56	394	parbat	20.068586/83.804124	Balliguda	Sala Jungle(more than 300 trees)
21	Kandamala	Balliguda	Stone	Dungerikia	15.09	56	394	parbat	20.067066/83.804604	Balliguda	Sala Jungle(more than 300 trees)
22	Kandamala	Balliguda	Stone	Dungerikia	5.29	56	380/463	parbat	20.070580/83.806424	Balliguda	Sala Jungle(more than 300 trees)
23	Kandamala	Balliguda	Stone	Dungerikia	10.63	56	363/464	parbat	20.068529/83.807308	Balliguda	Sala Jungle(more than 300 trees)
24	Kandamala	Balliguda	Stone	Sirubali	5	33	16/393	parbat	20.250525/83.830314	Barakhama	Sala Jungle(more than 300 trees)
25	Kandamala	Balliguda	Stone	Kutikia	9.28	230	447/178	parbat	20.294430/83.9032011	Sindirgaon	Sala Jungle(more than 300 trees)
26	Kandamala	Balliguda	Stone	Kutikia	7.698	230	382/178	parbat	20.298396/83.889937	Sindirgaon	Sala Jungle(more than 300 trees)
27	Kandamala	Balliguda	Stone	Salaguda	3.5	74	835	parbat	20.265070/83.857277	Salagudu	Sala Jungle(more than 300 trees)
28	Kandamala	Balliguda	Stone	Salaguda	2	73	833/848	parbat	20.263644/83.850079	Salagudu	Patra jungle(more than 300 trees)
29	Kandamala	Balliguda	Stone	Salaguda	7			Reserve Forest	20.268080/83.862136	Salagudu	Reserve Forest
30	Kandamala	Balliguda	Stone	Khamankhol	2.675	81	528	Patharabani	20.371402/83.741516	Landagaon	Wild animals movment,kusuma,mahula
31	Kandamala	Balliguda	Stone	Bindhadangar	2.4	1	1	Sala jungle	20.405605/83.669736	Landagaon	Sala jungle(more than 300 trees) very near to village
32	Kandamala	Balliguda	Morrum	Gadringia	9.943	57	16	jungle patra	20.123404/83.830517	Batagada	Patra jungle(more than 300 trees)
33	Kandamala	Balliguda	Morrum	Muthabali	19.94	77	44	Parbat	20.411524/83.709753	Landagaon	sala jungle(more than 300 trees)

ACF Balliguda
09/07/24

09-7-24
MD. Kalimuddin

34	Kandamala	Balliguda	Morrum	Sindirgaon	19.92	206	1409	jungle patra jungle	20.228624/83.937251	Sindirgaon	Sala jungle,wild animals movement, 25 to 50 canopy density,30cm daya sala jungle.
35	Kandamala	Balliguda	Morrum	Barakhama	5.6	347	587	Gochar	20.24268/83.836305	Barakhama	Feasible after convertation
36	Kandamala	Balliguda	Morrum	Dapasahi	2	37	1	Parbat	20.228615/83.926531	Salaguda	Sala mixed jungle(more than 300 trees)
37	Kandamala	Balliguda	Morrum	Balliguda	7	771	2806	Patra jungle	20.186666/83.902097	Balliguda	sala bushy forest(more than 300 trees)
38	Kandamala	Tumudibandha	Stone	Dadanga	3.176H	16	158	Patita	20.004754/83.42678	Tumudiband	forest, sala jungle(more than 300 trees)
39	Kandamala	K.Nuagaon	Morrum	Kanjanehdi	1.000H	233	10	Patra jungle	20.139766/84006875		forest, sala jungle(more than 300 trees)
40	Kandamala	K.Nuagaon	Morrum	sarangada	0.100H	483	1550	Patra jungle	20.218703/84.119667		forest, sala jungle(morethan 300 trees)

AEE, 09/7/24
Kandhamal Irr. Div,
Phulbani

Nabajyoti Bangar, AEE
SPCB, Bhubaneswar

9-7-24
M.U.
Kandhamal

ACF, Baliguda
Forest Division.
09/07/2024

Geo Expert
09/7/24

Members Present in the District Level Committee Meeting for Finalisation of District Survey Report(DSR) Meeting held on Dt.28.11.2024 at 4.00 PM in the Sadbhabana

Sl. No.	Name & Designation	Cell No.	Signature
1	Sri Amrit Ruturaj, IAS, Collector & DM, Kandhamal	9438408608	
2	Sri Ramesh Chandra Jena, OAS(S)Addl. Dist. Magistrate, Kandhamal	909033990	28/11/24
3	Smt. Rina Pradhan, IAS, Sub-Collector, Balliguda	8249694792	28/11/24.
4	Sri Chittaranjan Mahanta Sub-Collector, Kandhamal.	7683930845	28.11.24
5	Pratella Kumar Malik, OFS-AG ACF, Balliguda Forest Divn c/o-DFO, Baliguda Forest Divn	9437085523	28/11/24 ACF
6	Manohar Mohanta Mining officer, DDU I/c Phulbani	9438918357	28/11/24
7	Bibhujit Balabantaray, AEE O/o, Kandhamal Irr. Div, Phulbani	7978390572	28/11/24
8	NABAJYOTI BEWURA, AFE state pollution control Board, Berhampur	7894114030	Nabajyoti Bewura 28.11.24
9	Sowmya pradhan Tehsildar	9439116831	28.11.24
10	Iswara Chandra Pradhan Member of Convenor	9556040135	28-11-24
11	Subhasagha Jena. DFO-Phulbani	8895372819	28/11/24
12			
13			
14			
15			

DISTRICT SURVEY REPORT (DSR)

OF

KANDHAMAL DISTRICT, ODISHA

FOR

SAND SAIRAT SOURCES

(DRAFT COPY)

FOR PLANNING AND EXPLOITING OF

MINOR MINERAL RESOURCES

As per Notification No.- S.O. 3611(E), New Delhi,

25th July, 2018

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

(MoEF & CC)

Submitted By:

COLLECTORATE, KANDHAMAL

PREAMBLE

Odisha is one of the Major Mineral rich State in India. Kandhamal is a unique District in Odisha lies on the Southern most part of the State with rich and varied mineraland Forest resource. It is a paradise for Geo-scientists of India and aboard. It has preserved many important rock groups from the earliest of crust formation to the geologically recent times. The land mass constituting the Kandhamal District, explorers to many Entrepreneurs on account of its diverse geological setting and rich and varied mineral resources.

In pursuance of MoEF& CC Notification S.O. 141(E) dated 15th Jan. 2016,District Environment Impact Assessment Authority (DEIAA) & District level Expert Appraisal Committee(DEAC) has been formed for Category–B_2 Minor Minerals having area less than or equal to 5ha. Prior to the formation of Odisha Minor Mineral Concession Rule 2004, (OMMCR-2004) the mining operation for minor mineral were carried out in unscientific manner. Identifying this fact in exercise of power, Conferred by Section 15 by Mines and Minerals (Development and Regulation) Act 1957 as amended in 2015 and all other powers enabling it in that behalf, the industry Mines & Geology Department, Govt. of Odisha framed the aforementioned rule, which has been amended with period of times in the year 2014, 2015 and 2016.

Keeping in view of experience gained in period of decade, the MoEF & CC came out with Environmental Impact Assessment Notification S.O.-1533(E) dated 14th Sept. 2006. It has been made mandatory to obtain environmental clearance for different kinds of development projects as listed in Scheduled-I of notification. Further, pursuance of the order of Hon' ble Supreme Court Petition (C) No. 19628-19629 of 2009, dated 27th Feb.2012 In the matter of Deepak Kumar etc. , Vs State of Haryana and others etc., Prior Environmental Clearance has

now become mandatory for mining of Minor Minerals irrespective of the area of Mining Lease. And also in view of the Hon'ble National Green Tribunal, order dated the 13th Jan.2015 the matter regarding Sand, Brick Earth, & Burrowed Earth cutting for Road Construction has to take prior E.C. for Mining Lease irrespective of the fact that whether the area involved is more or less than 5 hectares. They also suggested to make a policy on E.C for minor minerals lease in cluster.

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

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

i. The exercise of preparation of DSR for the purpose of mining of the State of Bihar in all the Districts shall be under taken afresh. The Draft DSRs shall be prepared by the Sub-Divisional Committees consisting of the Sub-Divisional Magistrate, Officers from Irrigation Department, State Pollution Control Board or Committee, Forest Department, Geological or Mining

Officer. The same shall be prepared by undertaking site visits and also using by modern technology. After the Draft DSRs are prepared the District Magistrate of the concerned District shall forward the same for examination and evaluation by the SEAC. The same shall be examined by the SEAC and its report shall be forwarded to SEIAA. The SEIAA will thereafter consider the grant of approval such DSRs.

ii. Needless to state that while preparing DSRs and appraisal thereof by SEAC and SEAII. It should been sure that a strict adherence to the procedure and parameters laid down in the policy of January - 2020 should be followed.

The District Survey Report will form the basis for application for Environmental Clearance, preparation of reports and appraisal of projects. District Survey Reports are to be reviewed once in every five years as per statue.

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

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

1. Identification of Mineral Resources in the District.
2. Identification of areas of minor minerals having the potentiality where mining can

1.0 KANDHAMAL DISTRICT AT A GLANCE:

Kandhamal district is one among the 30 Districts of Odisha State. The administrative head-quarters of Kandhamal District is Phulbani. It is Located 198Km East towards State capital Bhubaneswar. The geographical area og the District is 8021 sq.kms. Area-wise the district rank is 6th among all the districts of Orisha.

Kandhamal literally "the land of Kondhs" is a districts with a substantial tribal population.It was formed by bifurcating the former Boudh-Phulbani or Kandhamal District on 1st January, 1994. The agro-climatic condition of the districts is otherwise very rich in organic contents.

Ever Since Boudh-Phulbani district was created in 1948 by merging feudatory state of Boudh with Phulbani sub-division with its Headquarters at Phulbani, the movement to separates Phulbani from Boudh began in early 1980"s when two Tribal outfits named "Kui Samaj" and "Pahadi Sangram Manch" fight for the separation. When the movement becomes vociferous, the state Government had to concede the demand of the people ultimately and Kandhamal came into existence.

The Government of India, Ministry of Environment, Forests and Climate Change (MoEF&CC) has made certain amendment vide notification No.S.o.141(E) dated 15.01.2016 and Notification No.S.O.190(E) dated 20.01.2016 in Environmental Impact Assessment (EIA) Notification no.S.O.1533(E) Dated 14.09.2006 issued by the erstwhile ministry of Environment and Forest (MoEF).

District Survey report (DSR) is required to identify the areas of aggradations or depositions under the guidance of District sub-level committee 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 after mining in that area.Every effort has been made to cover sand mining locations,area and overview of mining activity in the district with all its relevant features pertaining to geology and mineral wealth in replenishable and non-repenishable areas of rivers, stream and other sand sources.

1.1 Location and Geographical Area:

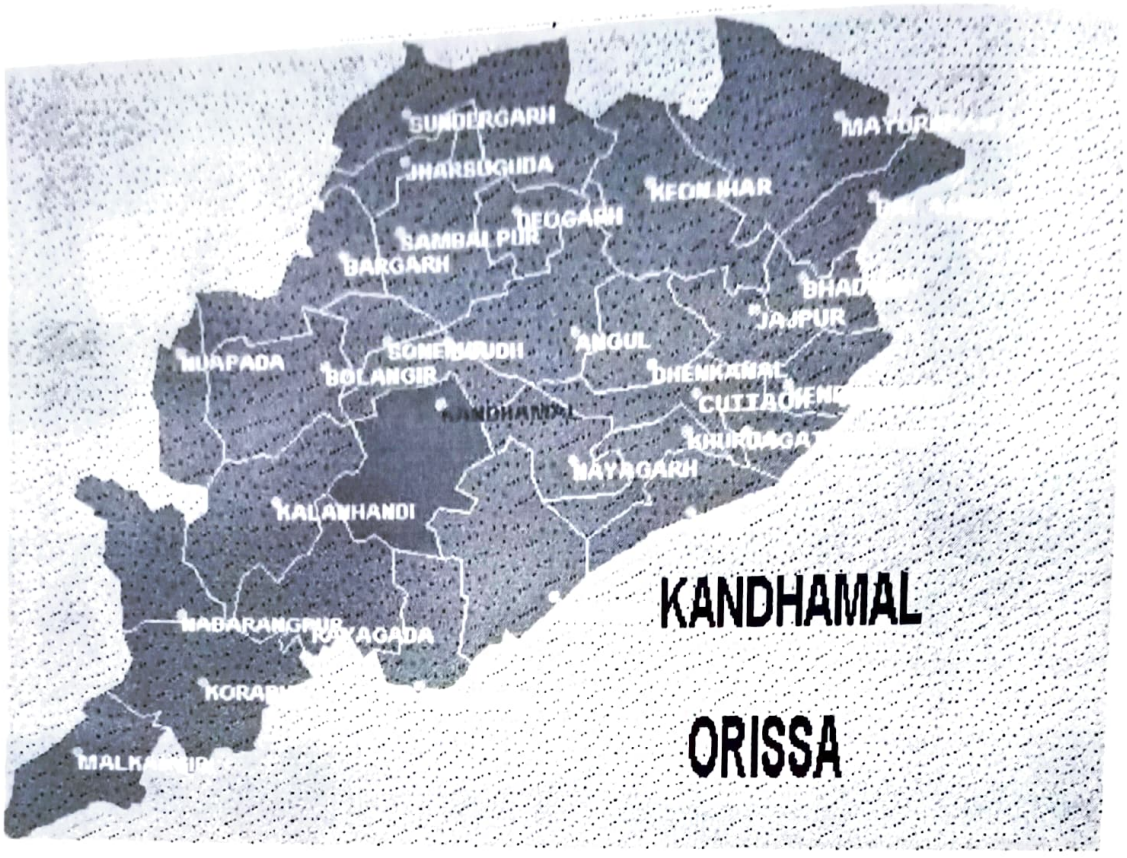
The un-divided Phulbani district was separated from Boudh in 1984 and renamed as Kandhamal District. It has 2 sub-divisions namely. Phulbani & Baliguda in Kandhamal district. Phulbani is the District Head Quarter of Kandhamal district, and the district is spreading over an area of 8021 sq.km lies between 19° 34′ North and 20° 34′ North latitudes and 83° 30′ and 84° 35′ East longitudes. The District is surrounded by Rayagada district in its South, Ganjam and Nayagarh District in its East, Kalahandi District in its West and Boudh district in its north side.This District consists of Two Sub-Divisions namely Phulabani & Baliguda. There are12 Tahasils for 12 Blocks, 2506 Villages, 171 Gramapanchayat and 18 Police stations of the District. Phulbani is the main town of the District and is also its centre of economic growth.

Phulbani sub-divisons forms a broken plateau about 518 meters above sea level. Continuous mountains surrounded this sub division from all sides. The high plateau lying within these ranges is broken up by numerous smaller ranges which form an endless series of valleys varying in size. Thick forest cover much of these tracts and villages lie in scattered clearings along hill sides. The whole of this sub-division is a network of hills and forests interspersed with small hamlets of the Kandhas. The hilly tract is intersected in all directions

by streams and Rivers, which run dry after the cessation of rains.

Baliguda Sub-division is one of the plateau and lies at heights varying from 300 meters to 1100 meter above sea-level. The eastern side of the sub-division consists of wide well cultivated valleys. The hills of this sub-division are a part of the Eastern Ghats. The uplands and slopes leading from the foot of the hills are utilized for growing dry crops periodically depending on the rain.

The area of cultivated land is small in this district. The primary occupation of people in the District is cultivation, collection of Forest Products like Mahua Flower, Kendu Leaf, Bamboo. Sal Leaf etc., Economy of Kandhamal District is agrarian in character. Except a few agro–processing units, there is no major industry in the District. Being an agrarian economy, collection of jungle product is the main stay of the people of Kandhamal District. The District has a rich mineral base of soft stones, granite stone, stone chips are available in the District, which are mainly used for development work in the District. The huge deposits of Graphite at different regions provides tremendous scope for development of few more industries based on this resources. Except these, no minerals in large quantity which can be explored for commercial purpose found in the District.



1.2 Administrative Units:-

Phulabani is the administrative head-quarter of Kandhamal District. It is located at a distance of 198 Km from Bhubaneswar, State capital of Odisha.It has2587 villages covering 12 Blocks, 12 Tahasil and 2 sub- Division, namely Phulabani and Baliguda. The 12 Blocks and tahasils are namely,

i) Balliguda, ii) Chakapada, iii) G. Udayagiri, iv) Daringbadi, v) K.Nuagoan, vi) Kandhamal, vii) Kotagarh. Viii) Khajuripoda, ix) Raikia, x) Phiringia, xi) Tikabali, xii) Tumudibandha.

Total population of the Kandhamal District (2011 census) was 7,33,110 comprisingtotal 3,59,945 male population and 3,73,165 female population. Total SC population of the District is 115544 (15.8%) and total ST population of the District is 3,,92,820 (53.6%). Average literacy rate in Kandhamal district as per census 2011 is 86.81 % of which males and females are 93.30 % and 80.29 % literates.

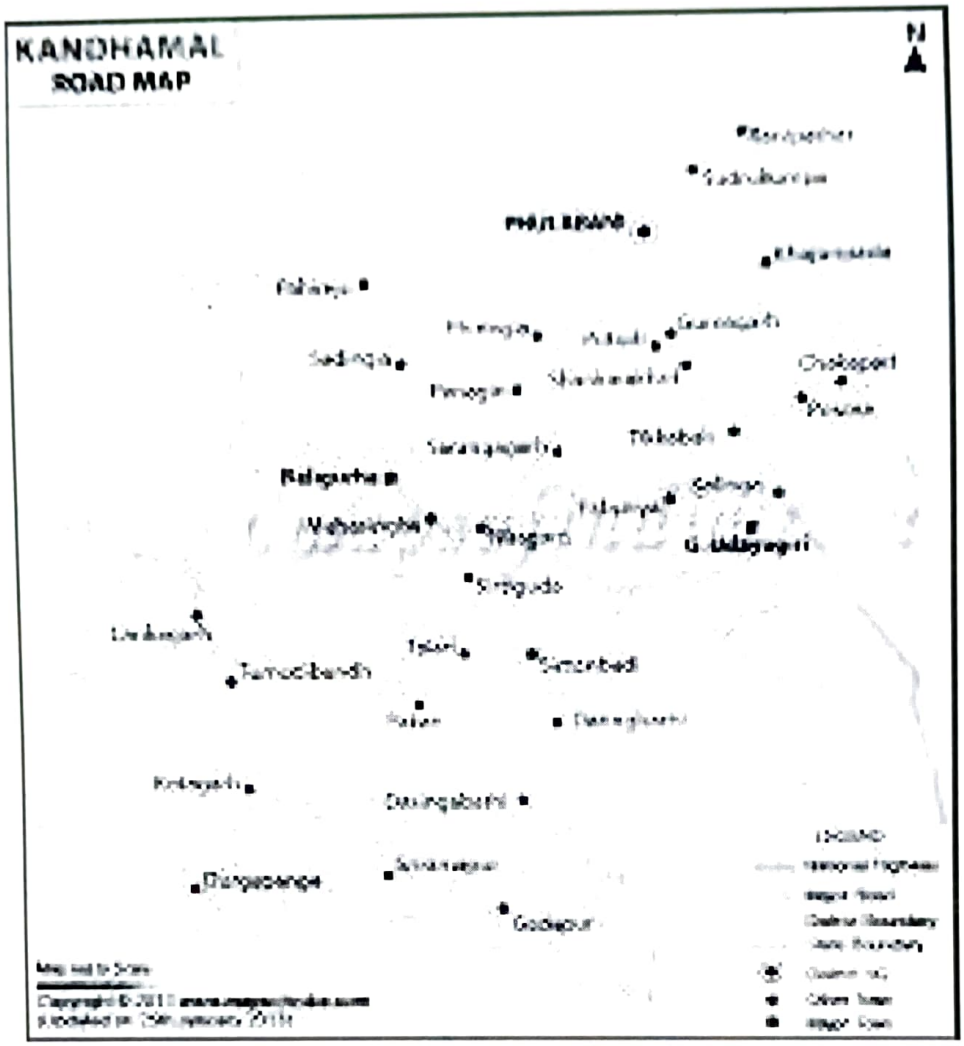
There are one municipality, two Notified Area Council, 171 Gram Panchayats 2,506 villages with 2415 inhabited and 91 uninhabited villages, Baliguda, G. Udayagiri and Phulbani are three assembly constituencies.

Administrative Unit	**Numbers**
Sub-divisions	2
Tahasil	12
Block	12
Municipally	1
NAC	2
Police Stations	18
Gram Panchayats	171
Total no. of Villages	2506
Inhabited Villages	2415
Uninhabited Villages	91
Assembly Constituencies	3

1.3 Connectivity Facilities:-

1.3.1 Road Network

The District is well served by a network of good roads and has been called the motorists paradise. The chief roads emanating from Phulbani town are NH-16 and NH-60 passes the District. Kandhamal is 160 Kms from Brahmapur, 185 Kms from Bhubaneswar,185 Kms from Sambalpur. It is also connected with other cities such as Bhubaneswar, Brahmapur, Sambalpur, Bolangir, Nawarangpur, via Odisha State Road Transport Corporation and some private transport services.



1.3.2 Rail Network

Kandhamal District is not connected by any Rail link. Only Roadway link is available to connect withdifferentplaces of the district and state. Daspalla Rail station and Brahmapur Rail Station is the nearest operational Station from this district.

1.3.3 AirNetwork

At present, Kandhamal has no connection by Airway. Nearest airportis Biju Patnaik Airport, Bhubaneswar, 200 Kms. from Kandhamal district.

2.0 OVERVIEW OF MINING ACTIVITIES IN THE DISTRICT:

2.1. MINERALS:

The district has a variety of mineral occurrences which include Graphite, Bauxite and Quart zite stones. Brief description of the mineral occurrences is given below.

2.1.1. Graphite:

An occurrence of Graphite has been reported near Madagurha (Tumudibandh), Bargaon, Dhursi, Mahabali. The chemical analysis indicates that more than 40% of $Al_2O_3$and less than 0.5% of SiO_2.

2.1.2 Bauxite:

An occurrence of Graphite has been reported near Anamini Parbat, Rukuni Cuttack, Demoli, Ushabali etc. The chemical analysis indicates that more than 40% of Al_2O_3 and less than 0.5% of SiO_2.

2.1.3. Quartz & Quartzite:

Quartz occurs in the form of veins and as a constituent of pegmatite's. In Orissa, quartz and silica sand deposits are located in the Precambrian terrains Quartzite occurs as beds inter stratified with other met a sedimentary in few places of the district.

3.0. GENERAL PROFILE:

a) Area and Population:

The district has an area of 8021sq.km. and 7.34 lakh of population as per 2011 census. The district accounts for 2.78 percent of the states territory and shares 1.75 percent of the state population. The density population of the district is 91 person per sq.km. of the state. As per 2011 census, 90.14 % population of Kandhamal districts lives in rural areas of villages. Average literacy rate in Kandhamal district as per census 2011 is 86.81 % of which males and females are 93.30 % and 80.29 % literates whereas Literacy rate in rural areas of Kandhamal district is 61.52 %.

b) Climate& Rainfall:

The climate condition of the district comes under North Eastern Ghat agro climatic zone covering 15% of area with Hot & Moist, Sub humid climate, characterized by hot & dry summer and dry cold winter. As the geographical situation of the district is characterized by undulated topography with hilly terrain where the rain water is carried through hill streams and nallahs. The average annual rainfall of the district was 1428.15mm and temperature ranges between a maximum of 40 degree to minimum 1 degree centigrade. The humidity of the air is generally high especially in the south-west monsoon and post monsoon months.April is the driest month. Afternoon period is compared drier and more so from March to May. The peak period of rainy season is from 15th June to September month.

Year/ Month	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	**Total**
20-21	2.55	42.97	204.37	238.17	273.88	267.34	118.9	1.81	0	30.87	14.75	30.78	**122.39**

Avg.	23-24	22-23	21-22
30.90	131.75	92.56	0.60
60.32	103.43	75.33	62.66
196.48	149.31	146.24	238.82
303.89	367.33	461.87	211.64
300.63	325.74	385.98	242.04
264.42	202.44	309.47	216.44
202.54	320.19	293.33	195.39
11.86	0.93	0	33.76
20.51	77.93	61.54	0.00
10.29	0.00	0.00	0.00
4.92	2.08	0.00	0.00
20.39	19.55	0.13	30.27
1428.15	**1700.68**	**1826.45**	**1231.62**

c) Agriculture:

The land utilization of Kandhamal district is as follows:

The Total Geographical Area is 802100 Hectare.

802100	**Geographical Area**
570983	**Forest Area**
14245	**Cultivated waste land**
9103	**Land put to Non-Agril. Use**
10079	**Permanent Pastures**
33775	**Land under miscellaneous**
6182	**Other fallow**
935	**Current Fallow**
126855	**Net Area sown**
133972	**Gross cropped area**
29943	**Barren/non cultivable land**

Name	Paddy	Maize	Arhar	Black	Niger	Horse	Groundnut	Mustard	Potatoes	Sweet Potato	Turmeric	Ginger
Production in KG/Ha.	2447	1706	961	242	312	358	1507	305	14784	9363	9569	10560

d) Horticulture:

In the year 2023-24 total 21678.8 ha. land area has been used for horticulture purposes in 12 nos. of Blocks of the districts where 2338 nos of beneficiaries have been benefited.

e) Tourist Places:

There are four nos. of tourist spots in Kandhamal district namely Daringbadi, Belghar, Mandasur, Putudi waterfall has identified by department of Tourism, Government of Odisha. So many nos. of domestic tourist were visited to the tourist centers of Kandhamal district.

f) Forest areas:

Kandhamal has abundant of Forest areas that contributed 71.9% of the total geographical area of the district. Out of total geographical area of 8021 Sq.Km. around 5859.85 Sq.Km. is forest area of this district. The total reserve forest area is 2050.42 Sq. Km.

The entire division is traversed by a number of rivers and nallahs. The rivers originate from almost the centre of the division and run parallel to the general direction of North and North-West. The perennial rivers and streams found in this districts are summarized in the below table.

Name of Range	Name of Stream/River
Balliguda Sub-Division	
Balliguda	Khadaga, Budhanai merged with Roulnadi&Jhiripani Nallah
K. Nuagam	Kalipen Nallah
Daringbadi	Gumardihi Nallah
Daringbadi	Periaju Nallah
Tumudibandha	Roulnadi
Brahmanigaon	Rushikulya River originates from Rushimal forest Block
Kotagarh	Chauldhua, Dimuru&Roulnadi
Belghar	Pipilli, Penaju Nallah
Phulbani Sub-Division	
Phulabani	Salki
Chakapad	Brutanga

g) Mining:

The total area under mining activities in Kandhamal district is found to be 67.235 Ha. out of which 18.715 Ha. area is for stone quarries and rest 48.520 Ha. is for sand quarries area of the district. The total Minavble reserve in existing stone quarries in Kandhamal district is 1331919 Cum.

4.0 Geology:

The geological formation of Kandhamal district is in archian crystalline form of Eastern Ghat phases which are comprises of associate minerals such as Granite, Khondolite, Charcolite and Quartzite etc.

Geology of the District and mineral wealth:

Geologically the area forms part of the Eastern Ghats Super Group and is divided into khondalite group, Charnockite group and migmatite group. The alluvium is of Pleistocene to recent age. Khondalite group of rocks are of meta-sedimentary origin and represented by quartz garnet-silimanite schist and gneisses without graphite, sillimanite quartzite and quartz silimanite sericite schist occurring as enclaves within granite. Occurrences of basic charnockite are very restricted as bands or lensoid patches within the granites. Intermediate or acid charnockite are common being distributed throughout the hilly area. Migmatite group comprising augengnesis, garnetiferous leucogranites are the most abundant rock types of the area. This constitutes high hill ranges at several places towards north and south and smooth rolling topography in the plains. Rocks of lower Gondwana group especially the Talchir formation is exposed in the northern part of the area. The contact between Talchir and older rocks is faulted at places. Pockets of laterites commonly found in khondalite bearing ridges mainly over the hill tops. The laterite exposed in the area is of Cainozoic age. The river beds of the area are covered by recent alluvium. The general strike of the foliation is WNW-ESE to ENE-WSW through NE-SW and NS. The amount of dip ranges between 500 to sub-vertical. There is one major shear zone near Ranipathar area. Mylonite and silicification occur along this zone at several places. Both vertical as well as inclined joint planes are observed. Numbers of fault planes occur in the area with varieties of strike direction. A number of lineaments are deciphered in this area from LANDSAT imageries. Two major sets of these lineaments are

deciphered running along NW-SE to NNWSSE and NS directions. A number of mineral occurrences are noticed in the area. Bauxite deposits have been located in the plateau of khondalite hills. Rucy, mica-bearing pegmatite vein is located East of Mundagaon. Several occurrences of dimension stones are found at the southern bank of kalipana river. Graphite occur in the garnet-quartz-silimanite schist of khondalite suite in the form of bands, enechelon veins and lenses or disseminated forms. They are usually disposed conformably along the foliation planes of the host rocks. A number of graphite deposits have 13 been found in the western part of the area at NW of Tumudibandha. Only occurrence of bed ocher, found in the district is situated south of Ghumusar Udayagiri.

5.0. DRAINAGE AND IRRIGATION PATTERN

A) Hydrology:

Themajor water bearing of kandhamal district are measure through pre-monsoon dept to water level i.e. 6.40 mtrto12.35 mtr& the post-monsoon that water level is 0.14 mtr to 10.70 mtr

B) River:

The Kandhamal physiographic units are remark by valley pediment, hills & flood plain. The major drainage system is being regulated by the river Mahanadi, Tel & their tributaries.

The total irrigation potential of Kandhamal district for Kharif 2023 is 3380 Ha. Covers around 25.89 percentage of cultivated area. The drainage of irrigation pattern is designed is designed for 33080 Ha. as belows such as :-medium irrigation project-2033 Ha., MIP+ Check dam – 10314Ha., Lift irrigation project- 11524 Ha., W.H.S.- 982 Ha., DBW + Micro River lift – 3070 Ha. and other sources – 5157 Ha. .

(a) Drainage system with description of main Rivers:

Sl.no	Name of the River	Area drained (Sq.Km)	% area drained in the District
1	Salki	1581	78%
2	Khadaga	2020	93%
3	Pilasalki	87.36	100%
4	Kalava	95.85	100%

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
1	Salki	85	Bakamaha of G.Udayagiri Block	652 m
2	Khadaga	142	Gumamaha of Raikia Block	702 m
3	Pilasalki	3	Sanabeda of Chakapada Block	863 m
4	Kalava	15	Linepada of Chakapada Block	530 m

6.0. Land utilization Pattern in the District

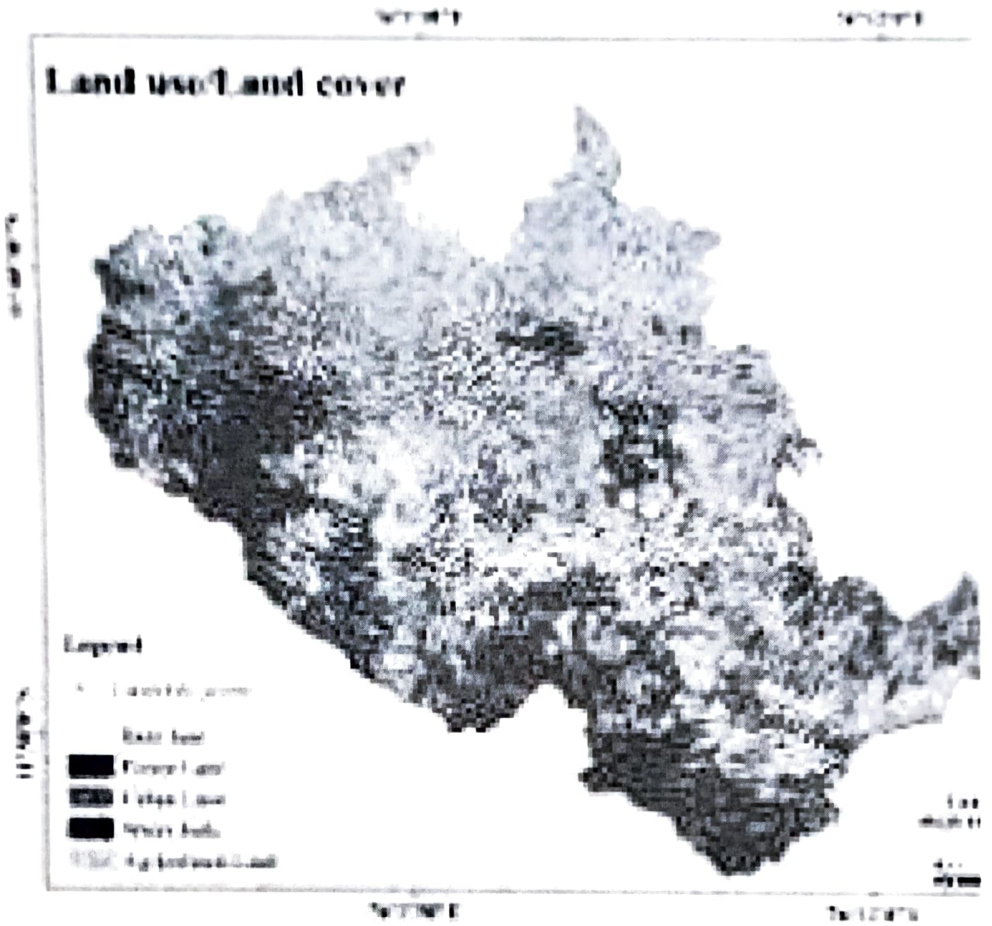
District of Kandhamal has abundant of Forest area that contributed 71.19% of the total geographical area of the district .total Geographical area of Kandhamal District is 8021 sq kms. out of total geographical area the total forest area is 5859.85 sq.kms. the total reserve forest area is 2050.42 sq.kms.

The entire division is traversed by a number of rivers/nallahs. These rivers originate from almost the centre of the division and run parallel to the general direction of North and North west. The perennial river and streams found in Balliguda Division are summarized in the table below.

6.1. The land utilization of Kandhamal district is as follows:-

As most of the area comes under forests, the people of the district basically depend upon the forest products. Most of the farmers are economically backward with higher percentage of SC & ST families. Majority of the farmers are small and marginal landless labours and depend on the forest and other minor forest products for their livelihoods. Some important crop grown in district are paddy, Maize, Turmeric, Ginger, Mustard and vegetable. As per agricultural census 2010-11 the no. of operational holdings of the district is 91512 with 92801 Ha. operational area. The average size of land holding for all social groups is 1.01 Ha.

Out of 8,02,100 hectares of geographical area of the district, 71% of land is under forest cover. Land under non-agricultural use constitutes 1.77%. Cultivable waste land, permanent pasture and land under miscellaneous tree crops and grooves constituting 7.24%, where the land comes under current fallows during 2012-13 & 2013-14 was 0.35%, which has decreased to 0.11% of the total land during 2014-15.Likewise, the net sown area during the year 2012-13 and 2013-14 was 15.57%, which has increased to 15.81% of total land during the year 2014-15.



7.0SURFACE WATER & GROUND WATER SCENARIO

in the Kandhamal district the water exploration programme is executed through drilled wells having depth range of 20.30mtr to 266.00mtr where discharge ips is couted from 0.21ps to 3.73lps. in the ground water mostly presence of chemical consitiuance are found more than permissible limit and this types of water is fit for irrigation & drinking with a few abstention. the annual replenishable ground water resources are 70266.00 where the net ground water drafts are 8748.00 the projected demand for domestic & industrial uses of ground water provision resources up to 2025 is 2524.00 & the stage of ground water development ae found

12.45 percentage board to assess the ground mentioned by quite a large no. of permanent hydrograph stations 4 times a year.

The variation of ground water table in the district is as follows:

Depth of water level (mbgl)/ Period	April	August	November	January
Minimum	2.1	0.27	0.7	0.85
Maximum	10.2	7.13	7.29	10.5

8.0. DETAILS OF SAND MINING LEASES OF KANDHAMAL DISTRICT

8.1DETAILS OF EXISTING OPERATIONALSAND MINING LEASES:

Attached as Annexure- II (A)

8.2. DETAILS OF EXISTING NON- OPERATIONAL SAND MINING LEASES:

Attached as Annexure- II (B)

8 DETAILS OF ROYALITY COLLECTED

Year-wise calculation of Royalty (Rs) of Road metal

Finacial Year	Amount in Rupees
2021-22	
2022-23	22,69,38,171/-
2023-24	20,44,87,763/-

9 DETAILS OF PRODUCTION OF MINOR MINERAL

Year	Amount
2020-21	123857.00 cum

2021-22	**115072.00 cum**
2022-23	**103476.00 cum**

10 MINERAL MAP OF THE DISTRICT

Attached as plate No.4.

11 LIST OF LOI HOLDERS ALONG WITH VALIDITY

Attached as Annexure II

12 TOTAL MINERAL RESERVE AVAILABLE IN THE DISTRICT

Theestimated deposit of graphite in the district is around 1.68 lakhs MT. Though occurrence of some minerals like Bauxite and Lime stone have been reported, the commercial production / exploitation is not viable. About 531 numbers of areas were applied for prospecting License, Reconnaissance Permit or mining leases for minerals like Bauxite, Iron Ore & Manganese, Quartz, Feldsper, Mica, Precious and Semi-Precious Stone, Graphite, Limestone, Dolomite, Coal, Lime kankar,China Clay, Red Ochre, Granite, Decorative Stone, Sand and Road Metals. The mining activity in the Kandhamal District is currently dependent on the decision of the government because of the restriction imposed by the ministry of Environment and forest of the Government of India, and the leases for major minerals expired in the due course of time were listed for auction through International Bidding.

The Geological prospecting report indicates as such that in the Kandhamal District the Bauxite deposit is found to be 33.7 million tones, Graphite(Industrial grade) is 1.477 million tones and Dimension stone is about 3.396 million cum.

14.0. Quality/Grade of Minerals available in the District:

Graphite (Mineral Grade), Bauxites (All Grades)

Minor minerals - Massive and boulder deposit of granites gneiss along with float Zone of river based and mixed withclay and pebbles.

15.0. Use of Mineral:

The river sand and granite boulders are crushed and used as building and road material. People of this district depend mostly on agriculture and mineral resources for their livelihood. The development of mining provides direct and indirect employment opportunities, Infrastructure development and communication and Socio-economic infrastructure. Mainly, two types of minor mineral constituents such as sand and stone are required for any type of construction apart from other material like cement and Steel.

16.0. Demand and Supply of the Mineral in the last Three Years:

Name of the Minerals	2020-21		2021-22		2022-23	
	Demand in Cum.	Supply in Cum.	Demand in Cum.	Supply in Cum.	Demand in Cum.	Supply in Cum.
Stone	123857	123857	115072	115072	103476	103476
Sand						

17.0. MINING LEASES MARKED ON THE MAP OF THE DISTRICT

Attached as plate No.5

18.0. DETAILS OF AREAS WHERE THERE IS A CULTURE OF MINING LEASES

Not applicable

19.0. DETAILS OF ECO-SENSITIVE AREA

The Kotagarh Wildlife Sanctuary has been notified by Govt. of Orrisa U/s 18 of wildlife (protection) Act 1972. Erst while Forest and Environment Deptt. Notification No.8f 162/87 - 30253 Dt.03.12.1981 for the purpose of protection, propagation, development and research on wildlife. The extent of area of the sanctuary is 399.5 sq.km. spread over the part jurisdiction of Kotagarh, Tumaudibandha and Daringbadi CD Block of Balliguda civil Sub-Division. Out of the above the Forst area comes to 269.5096 sqkm, over 10 Forest Blocks and revenue area of 129.9904 sqkm. Over 65 nos. of revenue village. the Sanctuary area is rich in floral diversity having 165 no. of species, 38 shrub species, 48 climber species and herbs 132 species having high economic and ethno botanical importance which provide food security to the animals. The Kotagarh sanctuary is a paradise for a no. of wildlife and have an encouraging faunal diversity. There are 43 species of Mammals, 144 species of Bird, 41 species of Reptiles, 19 species of Amphibians, 76 species of Butterflies and 23 species of Odonates. The Northern and south western portion of Sanctuary constitute a part of Chandrapur Elephant corridor and it is migratory route for Elephant from Kalahandi Forest Division and from Lakhari valley Sanctuary through Muniguda Range of Rayagada Forest Division. The other areas are Forest land and habitation area, paddy fields, roads, river, nalah etc.

20.0. REMEDIAL MEASURES TO MITIGATE THE IMPACT OF MINING ON THE ENVIRONMENT:

20.1 Remedial Measures to mitigate Air pollution

- Water sprinkling on mineral transport road from the mines to the main road.
- Block topping of the main transportation road to the possible extent.
- Avoiding crowing of trucks by properly spacing them to avoid the concentration of

dust emission at any time

- Covering the trucks by tarpaulin sheets during ore transportation.
- Proper maintenance of HEMM to minimize gaseous emission
- Importing sufficient training to operators on safety and environmental parameters
- Development of green belt / plantation around mine, along the roads, backfilled area in various undisturbed areas within the lease areas etc.

20.2. RECLAMATION OF MINED OUT AREA

Necessity of Reclamation & Rehabilitation:

- Exponential growth in mineral production since 1980.
- Mining activities causes physical, chemical, biological and socio-economic changes in the area.
- Surface mining activities disturb the original land profile.
- In India, mineral production comes mostly from opencast mines & hence Land degradation problems are of serious concern.
- An intricate, in – depth and site-specified techniques involving integrated approach is necessary.

Reclamation has three vital roles:

Reclamation– Reclamation means return the mined- outland with useful life. It implies restoring the land to a form and productivity that is useful and in conform its with a prior land use. Reclamation always may not be a single-phase operation.

Rehabilitation – Rehabilitation is to bring back the degraded land to a normal stage by a

special treatment. It is a process of taking some mitigation measures for disturbed environmental condition created through mining activities.

i. **Restoration**– Restoration is the process of returning the mined out land being fit to an acceptable environmental condition. However, the general acceptable meaning of the term is bringing the disturbed land to its original form. Restoration is often used to indicate that biological properties of soil are put back to what they were. This is a rate phenomenon.

ii. When active mining ceases, mine facilities and the site are reclaimed and closed. The goal of mine site reclamation and closure should always be to return the site to a condition that most resembles the pre-mining condition. Mines that are notorious for their immense impact on the environment often made impacts only during the closure phase, when active mining operations ceased. These impacts can persist for decades and even centuries.

iii. Mine reclamation and closure plans must describe in sufficient detail how the mining company will restore the site to a condition that most resembles pre-mining environmental quality; how it will prevent–in perpetuity– the release of toxic contaminants from various mine facilities (such as abandoned open pits and tailings impoundments); and how funds will be set aside to insure that the costs of reclamation and closure will be paid for.

20.3.Proposed future land use after reclamation:

a. Forestry,

b. Recreation,

c. Water Reservoir,

d. Crop Land,

e. Residential / Commercial,

f. Fish & wildlife Habitat,

g. Undeveloped Land,

h. Grazing/ Pasture Land

20.4. Statutory requirement:

As per the Mineral Conservation Development Rule, 2017, the following rules must be bear in mind by the mine owner/agent/manager, which is a part of reclamation activities –Rule 22, Mine Closure Plan Rule 23, Submission of Progressive Mine Closure Plan Rule 24, Submission of Final Mine Closure Plan Rule 26, Responsibility of holder of mining lease Rule 27, Financial assurance Rule 35, Sustainable Mining.

21.0. RISK ASSESSMENT AND DISASTER MANAGEMENT PLAN:

Mining activity because of the very nature of the operation, complexity of the systems, procedures and methods always involves some amount of hazards. Hazard identification and risk analysis is carried for identification of undesirable events that can leads to a hazard, the analysis of hazard mechanism by which this undesirable event could occur and usually the estimation of extent, magnitude and likelihood of harmful effects. The activities which can cause high risk related to face stability and the person blasting the shots. It was observed that on a working face of the mine, there were large cracks and unsupported rocks were present, which can lead to aserious hazard and injure workers engaged in loading operation and machineries because of rock falls or slides. This type of condition turns out because improper dressing of the bench and improper supervision. To avoid the hazards due to fall of rocks the face must be examined, made suitable for working and the remedial measures must

be taken to makeit safeif there is any doubt that a collapse could take place. Working of the face should be in the direction considering the geology of the area such that face and quarry side remains table. Another major risk identified in mines is due to the firing of explosive by an unqualified person. In the mines there is problem of fly rocks and the village is located close to the mine and so it is rated high as it can affect may people. Explosives by nature have the potential for the most serious and catastrophic accident. Planning of round of shots, holes correctly drilled, direction logged, weight of explosive suitable for good fragmentation are the few of the steps necessary to ensure its safe use and if the shots are not properly designed can result in misfires, early ignition and flying rocks. No person is allowed to use explosives without being properly trained in its handling. In the mine a largenumbers of heavy vehicles were in operation and the roads were not proper for haulage purpose. The haulage roads were not even and were not wide enough for the crossing purpose and hence the chances of hazards are very high. The main hazards arising from the use large earth moving vehicles are incompetent drivers, brake failure, lack of all-around visibility from the driver position, vehicle movements particularly reversing, roll over, and maintenance. Those most at risk are the driver and pedestrians likely to be struck by the vehicle, and drivers of smaller vehicles, which cannot be seen from the cabs of large vehicles. Edge protection is always necessary to prevent inadvertent movement over the edge of roadway or a bench. Seat belt will protect driver in case of roll. Good maintenance and regular testing are necessary to reduce the possibility of brake failure. Access to the vehicles shouldalways be restricted to those people necessary for the work in hand. The use of personal protective equipment and proper arrangements is essential to check if the person is wearing protective equipment or not. The personal protective equipment includes helmet, non-skid safety boots, safety glasses, earmuffs etc. The required personal protective equipments hould be provided and

used in a manner that protects the individual from injury. Few minor injuries which can be prevented areslip, trip, or fall hazards; hazards due to rock falls and collapse of unstable rocks, atmosphere containing toxic or combustible gases; protects from chemical or hazardous material etc. A disaster management plan should be prepared for taking care of for any disaster. Other risk which are included in this category are noise, as itoccurs and it can lead to permanent disability. There are problems related to road traffic in and out issuers; inappropriate exposure of moving machines; mechanical failure and because of large number of moving trucks and dumpers there is large quantity of dust present in roadways which affects the operators and can lead to accidents causing injury. They are in acceptable range because of precautions measures taken but no step is taken it can cause hazard hence steps should be taken to reduce the hazards such as for dust suppression system should be installed. Other problems like occurrence of lots of mosquitoes in the area due to unhygienic conditions which affect the human health causing malaria, dengue etc. and causing a person to be hospitalized.

Disaster in the mines like fires, explosions, entrapments, and inundations can occur any time, so emergency preparedness is a must. The Disaster management plan and risk assessment in the mines will include all sorts of above-mentioned emergency and the extent that this plan will be implemented will depend on the nature and scope of the emergency. The basic purpose of Disaster management plan and risk assessment to ensure that mine rescue and recovery activities are conducted safely for rescuer and survivors. According to MMR act 1961 a standard operating procedure should be drawn for involvement different category of staff and officers. The SOP should be updated periodically to reduce the chaos and response to the emergency should be quick and smooth. The responsible person should be familiar with his responsibility during the mock drills. One or two standby should bethere to replace the person

in Emergency situation. Rescue operations should not include the survivors for any assistance.

First Information of Disaster / Emergency should go to the attendance clerk onduty. Duties of attendance Clerk (Emergency Siren) the attendance clerk or other designated person should on getting information of major accident, sound a hooter or a siren immediately declaring a state of emergency at the mine and then to contact the manager and on his advice to call key personnel using the information listed in the Emergency Organization Chart. It is important that all telephone calls are recorded in a telephone logbook. Duties of other officials should be displayed and handed over to all concerned. Copy the same should be kept at Manager's Office for ready reference. Establishment of Control Room at Unit Level, Area Leveland Company Level is essential. Control Room should keep the contact information about–

- Company Manager
- Company owner / Administrative officer.
- District Administration
- Govt. Hospitals in Nearby Localities,
- Private Nursing Homes of Localities

Attendance roaster and duty charge register should be properly maintained so the record of missing people can be obtained.

22.0. DETAILS OF THE OCCUPATIONAL HELTH ISSUE IN THE DISTRICT:

The persons employed in the mines are exposed to a number of hazards at work which adversely affect their health. Some of the important ones are dust, noise, heat, humidity, vibration etc. In recent times, there has been increasing awareness among mining industry

and the workers about occupational diseases such as Coal Worker's Pneumoconiosis, Silicosis, Manganese Poisoning, Hearing Impairment etc. caused by exposure to health hazards at work. Almost all occupational diseases are known to cause permanent disablement and there is no effective treatment. However, most of the occupational diseases can be prevented by adopting proper occupational health measures and engineering control on air borne dust at workplace.

Following diseases have been notified as the diseases connected with mining operations for the purpose of sub-section (1) of Section 25 of the Mines Act, 1952:S.R.O.1306 dated the 21st July, 1952

1. Silicosis
2. Tuberculosis
3. Cancer of lung or the stomach or the pleura and peritoneum (i.e. mesothelioma)

25S.O.399 (E) dated 21st February, 2011

1. Noise Induced Hearing Loss
2. Contact Dermatitis caused by direct contact with chemical.
3. Pathological manifestations due to radium or radioactive substances

System of Detection of Occupational Diseases in Mines in order to detect occupational diseases the industry is required to conduct medical examinations and health surveillance of workers as per the provisions of Mines Act. The present efforts of mines management are concentrated on detection of silicosis, Pneumo-conios is and other notified diseases. Very little attention is paid to other occupational diseases. The essential features of health surveillance programme required to be carried out in mines are:

(a) Initial Medical Examination of persons to be employed in mines.

(b) Periodic Medical Examination once every five years. General physical examination, chest radiographs, lung function tests and audiometry.

(c) Classification of chest radio graphs of workers as per ILO Classification.

(d) Medical examination within one year of superannuation. Evaluation of all cases of suspected pneumoconiosis by Pneumoconiosis Medical Board.

(e) Maintenance of medical records till the person is in service and 10 years thereafter. The cases of silicosis detected during health surveillance programme are referred to Pneumoconiosis Medical Board of the mining companies for evaluation and certification. If certified, the case is notified to the enforcement authority andevaluated for disability and payment of compensation. Manycases of silicosis andother pneumoconiosis go undetected and a large number of cases of silicosis are misdiagnosed due to lack of training of medical professionals.

The details of number of patients treated for silicosis and Tuberculosis for the last five years in the district is given below.

Sl.no	**Year**	**Number of patients treated for silicosis**	**Number of patients treated for Tuberculosis**
1	2019	Nil	1016
2	2020	Nil	1030
3	2021	Nil	1250
4	2022	Nil	1402
5	2023	Nil	1364

23.0. PLANTATION GREENBELT DEVELOPMENT INRESPECT OF LEASE ALREADY GRANTED IN THE DISTRICT:

The greenbelt development plan aims to overall improvement in the environmental conditions of the region. The plan with a five-fold objective addresses issues such as prevention of land degradation due to activities

During mining operation, enhancingthe forest cover for increasing the biodiversity of the region, providing aesthetic value to the project area for enhancing the ecological equilibrium of the area and to a large proportion in combating soil erosion.

Need for greenbelt development plan with scheme for greenbelt development:

The implementation for development of green belt be paramount importance as it will not only add up as an aesthetic feature, but also act as a pollution sink.

The scheme of plantation inside the cluster area is given as follow:

I. The species to be grown in the area should be dust tolerant and fast growing species so that permanent green belt is created.

II. The green belt development will be done along the haul roads.

III. The Green belt development will be done nearby the mining leases to minimize the pollution level.

IV. The green belt will be put under a protective regulatory framework to ensure that it is not degraded or disturbed. No ecologically disruptive activity will be allowed in the zone.

V. The Green belt Development should be Approx. 33% of the area of the mining leases.

Sl.no	Name of the Site	Plantation / nearby Forest Block
1	Mediadami Stone quarry under RaikiaTahasil	-5 km from Dibari RF. -5km from 10ha. of ANR with gap plantation under scheme CAMPA 2020-21 in Dibari RF.
2	Alamramu Stone quarry under RaikiaTahasil	-1 km from Dibari RF. -7 km from Kilondi RF
3	Rudabidingia Stone quarry under TikabaliTahasil	-1 km from Tikabali KF (proposed new site for plantation of 10 ha. .under IGC Bald hill 2024-25) -500mtr.from Talarimaha PRF -2 km from Burtang South RF .
4	Dadanga Stone quarry under TumudibandhaTahasil	- Avenu plantation Tumudibandha to Dadanga to Rkm. Under MGNREGS inside Budhanai South PRF. Distance from Quarry to plantation 1 km. -ANR with gap plantation at Kapibira over 50 ha. inside Budhanai south PRF. Distance from Quarry to plantation is 12 km. -ANR with gap plantation at kapibira over 50 ha. inside Budhanai south PRF. Distance from Quarry to plantation is 3 km.

		- The proposed stone is coming under Budhanai 'S' PRF.

24.0. CONCLUSION:

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

ANNEXURE-I

DETAILS OF SAND/M-SAND SOURCES:

A. Rivers:

Sl.no	Name of the River or Stream	Total Length in the District (in km)	Type of River (Perennial/Non-Perennial)
1	Salki River	85	Bakamaha of G.Udayagiri Block
2	Khadaga River	142	Gumamaha of Raikia Block
3	Pilasalki River	3	Sanabeda of Chakapada Block
4	Kalava River	15	Linepada of Chakapada Block

B. De-Siltation Location:

Name of Reservoir/Dams	Maintain by State Govt./PSU etc.	Location	District	Tehsil	Village	Size
Not Applicable for Kandhamal District						

C. Patta Lands/Khatedari Lands:

Attached as Annexure- I (C)

D. M-Sand Plants:

Plant name	Owner	District	Tehsil	Village	Geo-Location	Quantity (Tonne/Annum)
Not Applicable for Kandhamal District						

DISTRICT SURVEY REPORT (DSR)

OF

KANDHAMAL DISTRICT, ODISHA

FOR

ROAD METAL/BLACK STONE/BUILDING STONE

&

MORRUM SAIRAT SOURCES

(DRAFT COPY)

FOR PLANNING AND EXPLOITING OF

MINOR MINERAL RESOURCES

As per Notification No.- S.O. 3611(E), New Delhi,

25th July, 2018

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

(MoEF & CC)

Submitted By:

COLLECTORATE, KANDHAMAL

PREAMBLE

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

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

Keeping in view of experience gained in period of decade, the MoEF & CC came out with Environmental Impact Assessment Notification S.O.-1533(E) dated 14th Sept. 2006. It has been made mandatory to obtain environmental clearance for different kinds of development projects as listed in Scheduled -I of notification. Further, pursuance of the order of Hon' ble Supreme Court Petition (C) No. 19628- 19629 of 2009, dated 27th Feb. 2012 In the matter of Deepak Kumar etc., Vs State of Haryana and others etc., Prior Environmental

Clearance has now become mandatory for mining of Minor Minerals irrespective of the area of Mining Lease. And also in view of the Hon' ble National Green Tribunal, order dated the 13th Jan. 2015 the matter regarding Sand, Brick Earth, & Burrowed Earth cutting for Road Construction has to take prior E.C. for Mining Lease irrespective of the fact that whether the area involved is more or less than 5 hectares. They also suggested to make a policy on E.C for minor minerals lease in cluster.

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

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

i. The exercise of preparation of DSR for the purpose of mining of the State of Bihar in all the Districts shall be under taken afresh. The Draft DSRs shall be prepared by the Sub-Divisional Committees consisting of the Sub-Divisional Magistrate, Officers from Irrigation

Department, State Pollution Control Board or Committee, Forest Department, Geological or Mining Officer. The same shall be prepared by undertaking site visits and also using by modern technology. After the Draft DSRs are prepared the District Magistrate of the concerned District shall forward the same for examination and evaluation by the SEAC. The same shall be examined by the SEAC and its report shall be forwarded to SEIAA. The SEIAA will thereafter consider the grant of approval such DSRs.

ii. Needless to state that while preparing DSRs and appraisal thereof by SEAC and SEAII. It should be ensured that a strict adherence to the procedure and parameters laid down in the policy of January-2020 should be followed.

The District Survey Report will form the basis for application for Environmental Clearance, preparation of reports and appraisal of projects. District Survey Reports are to be reviewed once in every five years as per statue.

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

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

1. Identification of Mineral Resources in the District.

[illegible]

[illegible]

[illegible]