



Jharkhand State Pollution Control Board

Regional Office-Cum-Laboratory, Dumka

Dated 04/10/2019

Ref. No. 1462

From

Regional Officer

Dumka.

To,

Member Secretary,

Jharkhand State Pollution Control Board,

Ranchi.

Sub:- AAQR of different places in Sahibganj - reg.

Sir,

With reference to above noted subject please find enclosed herewith AAQR of different places having cluster of stone crusher/mines in sahibganj district, details as follows :

1. Sakrigali, Dist.- Sahibganj
2. Barharwa, Dist.- Sahibganj
3. Mirzachowki, Dist.- Sahibganj
4. Mahadeoganj, Dist.- Sahibganj

This is for your information & necessary action.

Yours faithfully


04/10/19
Regional Officer



JHARKHAND POLLUTION CONTROL BOARD, RANCHI

AMBIENT AIR QUALITY REPORT

Name of Industry :- **Barharwa, Dist.- Sahibganj**

Sahibganj

Date of Sampling : 25.09.2019 to 26.09.2019

Weather condition: **Cloudy & rainy**

Sampling Position :

1. Borna
2. Gangopara Bedo
3. Mangaladih

Time	SO ₂	NO _x	RSPM
Point 1			
5 PM to 9 PM	20.00	22.90	
9 PM to 01 AM	19.80	23.80	80
Maximum	20.00	23.80	80
Average	19.90	23.35	80
Point 2			
1.30 PM to 9.30 PM	18.90	24.50	
9.30 PM to 01.30 AM	19.10	23.60	84
Maximum	19.10	24.50	84
Average	19.00	24.05	84
Point 3			
7 PM to 11 PM	18.20	22.50	
11 PM to 03 AM	19.50	24.10	85
Maximum	19.50	24.10	85
Average	18.85	23.30	85

NOTE : All values are expressed in micro gram/cubic metre.

Remarks :

Lab in Charge

[Signature]
21/09/19

Regional Officer

[Signature]
21/09/19

Board Analyst



JHARKHAND POLLUTION CONTROL BOARD, RANCHI

AMBIENT AIR QUALITY REPORT

Name of Industry **Mahadeoganj, Distt.- Sahibganj**

Sahibganj

Date of Sampling : 27.09.2019 to 28.09.2019

Weather condition: **Cloudy & rainy**

Sampling Position :

1. Jokmari
2. Marikuti
3. Bhawani Chowki

Time	SO ₂	NO _x	RSPM
Point 1			
5 PM to 9 PM	19.10	23.20	
9 PM to 01 AM	18.20	22.90	82
Maximum	19.10	23.20	82
Average	18.62	23.05	82
Point 2			
1.30 PM to 9.30 PM	18.50	22.80	
9.30 PM to 01.30 AM	18.90	24.10	85
Maximum	18.90	24.10	85
Average	18.70	23.45	85
Point 3			
7 PM to 11 PM	19.20	23.50	
11 PM to 03 AM	19.50	24.10	81
Maximum	19.50	24.10	81
Average	19.35	23.80	81

NOTE : All values are expressed in micro gram/cubic metre.

Remarks :


Lab in Charge


Regional Officer

Board Analyst



JHARKHAND POLLUTION CONTROL BOARD, RANCHI

AMBIENT AIR QUALITY REPORT

Name of Industry **Mirzachowki**
Sahibganj
 Date of Sampling : 29.09.2019 to 30.09.2019
 Weather condition: **Cloudy & rainy**
 Sampling Position :
 1. Near Rly Siding
 2. Nimgachi
 3. Belbhadri

Time	SO ₂	NOx	RSPM
Point 1			
5 PM to 9 PM	18.30	22.10	
9 PM to 01 AM	18.50	23.05	95
Maximum	18.50	23.05	95
Average	18.40	22.56	95
Point 2			
1.30 PM to 9.30 PM	19.10	23.10	
9.30 PM to 01.30 AM	19.05	22.50	90
Maximum	19.10	23.10	90
Average	19.07	22.80	90
Point 3			
7 PM to 11 PM	18.50	23.50	
11 PM to 03 AM	19.20	24.90	89
Maximum	19.20	24.90	89
Average	18.85	24.20	89

NOTE : All values are expressed in micro gram/cubic metre.

Remarks :

Lab in Charge

Regional Officer

Board Analyst



JHARKHAND POLLUTION CONTROL BOARD, RANCHI

AMBIENT AIR QUALITY REPORT

Name of Industry :- **Sakrigali Sahibganj**
 Date of Sampling : 01.10.2019 to 02.10.2019
 Weather condition: **Cloudy & rainy**

Sampling Position :
 1. Ambadiha
 2. Hathigarh
 3. Kirokuria
 4. Gadwa

Time	So ₂	NO _x	RSPM
Point 1			
5 PM to 9 PM	19.50	22.20	92
9 PM to 1 AM	18.80	23.20	
Maximum	19.50	23.20	92
Average	19.15	22.70	92
Point 2			
5.30 PM to 9.30 PM	18.90	24.50	95
9.30 PM to 1.30 AM	18.20	24.10	
Maximum	18.90	24.50	95
Average	18.55	24.30	95
Point 3			
7 PM to 11 PM	19.90	23.90	88
11 PM to 3 AM	18.20	22.50	
Maximum	19.90	23.90	88
Average	19.05	23.20	88
Point 4			
7.30 PM to 11.30 PM	19.20	24.10	82
11.30 PM to 3.30 AM	18.50	23.50	
Maximum	19.20	24.10	82
Average	18.85	23.80	82

NOTE : All values are expressed in micro gram/cubic metre.

Remarks :

Lab in Charge

Regional Officer

Board Analyst

Joint Inspection Report

OA No. 776/2018

This has reference to the direction of Hon'ble NGT, order of OA No. 776/2018 dated 06.09.2019 in the Case of Ramchandra Chaurasia Vs State of Jharkhand, the issue was earlier taken up in O.A No. 23/2017(EZ), Syed Arshad Nasar Vs Union of India & Ors. A committee was constituted by the NGT which is given below.

- **Ministry of Environment, Forest and Climate Change**
Shri Rajeev Ranjan, Scientist-'D'
- **Central Pollution Control Board**
Dr (Mrs) Rita Saha, Scientist-'D'
- **Jharkhand State Pollution Control Board**
Shri Ravindra Prasad, RO, Dumka
- **Member from SEIAA/SEAC**
Dr. B K Tiwari, Member SEAC

As per the existence of Stone Mines and Stone Crushing units in the Sahebganj District, Jharkhand, the NGT directed the above committee to visit the area. Accordingly committee made a random visit to the Crushing units and the Mining units, the detail of the inspected Crushing and Mining units are depicted below:

Crushing Units Inspected:

Sl No. & Date of Inspection	Area of the Units	Name of the Unit	Lat/Long
1. 10/10/19	Borna, Sahebganj	Shiv Shakti Stone Works & Mines	24 ⁰ 49' 21" N 87 ⁰ 43' 21" E
2. 10/10/19	Borna, Sahebganj	Borna Stone Crusher & Mines	24 ⁰ 49' 31" N 87 ⁰ 43' 19" E
3. 10/10/19	Borna, Sahebganj	Deo Black Stone Works & Crushers	24 ⁰ 49' 59" N 87 ⁰ 43' 17" E
4. 10/10/19	Borna, Sahebganj	Neha Stone Works	24 ⁰ 49' 23" N 87 ⁰ 43' 25" E
5. 11/10/19	Gudwa, Sakrigali, Sahebganj	Prakash Chandra Yadav Stone Crusher #1	25 ⁰ 13' 51" N 87 ⁰ 43' 14" E
6. 11/10/19	Gudwa, Sakrigali, Sahebganj	Mineral India Crusher	25 ⁰ 13' 51" N 87 ⁰ 43' 19" E
7. 11/10/19	Gudwa, Sakrigali, Sahebganj	Prakash Chandra Yadav Stone Crusher #2	25 ⁰ 13' 51" N 87 ⁰ 43' 29" E
8. 11/10/19	Gudwa, Sakrigali, Sahebganj	Shetla Stone Works	25 ⁰ 19' 39" N 87 ⁰ 43' 27" E
9. 11/10/19	Gudwa, Sakrigali, Sahebganj	Lalan Singh Crusher	25 ⁰ 23' 27" N 87 ⁰ 43' 21" E

10.	11/10/19	Gudwa, Sakrigali, Sahebganj	Ganesh Tiwari Crusher	25° 29' 23" N 87° 43' 21" E
11.	11/10/19	Gudwa, Sakrigali, Sahebganj	Gowardhan Yadav Crusher	25° 29' 33" N 87° 43' 29" E
12.	11/10/19	Gudwa, Sakrigali, Sahebganj	Kishore Kumar Stone Crusher	25° 30' 23" N 87° 45' 29" E
13.	11/10/19	Gudwa, Sakrigali, Sahebganj	Mohan Singh Stone works	25° 14' 16" N 87° 43' 16" E
14.	11/10/19	Gudwa, Sakrigali, Sahebganj	Harinder Yadav Stone Works	25° 17' 26" N 87° 37' 53" E
15.	11/10/19	Mahadevganj, Sahebganj	Yash Raj Black Stone Works	25° 14' 26" N 87° 34' 53" E
16.	11/10/19	Mahadevganj, Sahebganj	Arjun Black Stone Works	25° 14' 23" N 87° 34' 59" E
17.	11/10/19	Mahadevganj, Sahebganj	BPY Infra Build	25° 14' 33" N 87° 34' 29" E
18.	11/10/19	Mahadevganj, Sahebganj	Ascent Infra Build	25° 14' 53" N 87° 33' 29" E
19.	11/10/19	Mahadevganj, Sahebganj	Rajeev Ranjan Stone Works	25° 14' 17" N 87° 34' 33" E
20.	11/10/19	Mahadevganj, Sahebganj	MaaAmba Stone Crushers	25° 14' 09" N 87° 34' 37" E

Detail of Mining units inspected:

Sl No. & Date	Area	Name of the Unit	Lat/ Long
1. 10/10/19	Borna, Sahebganj	Borna Mines	24° 49' 31" N 87° 43' 19" E
2. 10/10/19	Borna, Sahebganj	Deo Black Stone Mines	24° 49' 59" N 87° 43' 17" E
3. 10/10/19	Borna, Sahebganj	MdAbdurRazzak Mines	24° 49' 23" N 87° 43' 29" E
4. 11/10/19	Gudwa, Sakrigali, Sahebganj	Bajrangwalee Stone Mines	25° 14' 32" N 87° 43' 33" E
5. 11/10/19	Gudwa, Sakrigali, Sahebganj	Mineral India Mines	25° 14' 43" N 87° 43' 39" E
6. 11/10/19	Gudwa, Sakrigali, Sahebganj	Hill Movement Mines	25° 14' 35" N 87° 43' 41" E
7. 11/10/19	Mahadevganj, Sahebganj	Demba Mines	25° 14' 37" N 87° 43' 41" E
8. 11/10/19	Mahadevganj, Sahebganj	Bikash Stone Works	25° 14' 39" N 87° 43' 43" E
9. 11/10/19	Mahadevganj, Sahebganj	MaaAmba Stone Works Mines	25° 14' 38" N 87° 43' 45" E

10.	11/10/19	Mahadevganj, Sahebganj	Mahabir Eng. Construction Pvt Ltd.	25° 14' 47" N 87°43' 49" E
11.	10/10/19	Borna, Sahebganj	Md Abdur Razzak Mine	24° 49' 23" N 87°43' 29" E

Major Physical Observation of the above stated individual crusher unit is detailed below:

Shiv Shakti Crusher:

- The unit was provided CTO which has the validity up to March,2021
- The unit was under operation during the time of visit. It was infested with dust in the operating zone(see photos 1,2,3,4&5). Unit has very few Sprinklers inside the operating system which is unsatisfactory.
- There were no water spray arrangements in the hopper. Neither any spraying compound was found in the sieving or transfer area in the crusher unit.
- The water tanker was present in the unit but utilization is very scanty (see photo 11).
- Wind breaking wall was not erected in the periphery of the unit. However, on one side of the premises the OB of the mines were kept at a certain height and reported it as a wind breaking wall which is an un-appropriate method(see photo 3 & 6).
- Green belt developed in the periphery of the premises was found unsatisfactory. Some plants were found in the periphery as reflected in the photograph annexed (see photo 8),which is too scanty as per EC/CTO condition.
- Water harvesting system was not observed inside the crushing unit.
- No paved roads seen inside the premises.
- The unit has DG set but there is no vertical stack installed as per Central Pollution Control Board norms.
- The workers are not provided with PPE which is mandatory.
- The Committee members installed RDS (Respirable Dust Sampler) for the collection of particulate matter inside the premises at the time of operation of the crushing unit but at many times there was failure of the Crushing system for many reasons which may be intentionally done by owners.Even though the unit was in operation but operated without full load. However, the result of the RSPM found is 482.50 $\mu\text{g}/\text{m}^3$. (Test Report Annexed)

Apart from this, in the Borna Mouza,Deo Black Stone crushing unit, Neha Stone crushing Unit, Borna Stone crushing Unit and crusher of M/s Asraful Haque were also inspected and found in non operational state(see photos 13,14,21,23,24,25,26&29).

In all the above units CTO & EC condition were not complied, like absence of 'Wind Breaking Wall', negligible or unsatisfactory 'Green Belt' along the Periphery, absence of 'Internal PuccaRoads', no water tanker in the premises, no water spraying arrangement of fixed type were observed except at Deo Black Stone crushers.

Due to absence of the Project authorities no relevant papers were available in the site. No air quality measuring instrument could be installed since the units were non operational.

M/s Prakash Chandra Yadav Stone Crushing Units has three units in single premises, in which two units are found non operational, details given above in the table. However, Prakash Chandra Yadav Crushing Unit#1 details are as below:

- There was huge dust emission inside the Crushing Unit. (see photos 43,44 & 45)
- The unit has spraying pipelines as well as sprinkler but the spraying was ineffective in dust suppression.
- The water/mist canon (see photo 42) was also observed but it was found non operational.
- There was huge stock of stone fines, small chips inside the Crushing area which makes the inside atmosphere unhealthy.
- No boundary wall was constructed
- Installation of thin metal sheets in some restricted areas were observed, which was to acts as a protection for the large dumps and small stone fines as reflected in the (see photo 34), but it was not satisfactory protection.
- There are many non-operating crushing units installed on the top of the hill under the management which is very dangerous for the surroundings(see photo 35,42&43).
- Very scanty green belt observed in the periphery which could be seen in the project area.
- The unit has no fixed water sprinkling system in and around the crushing unit and around loading and transfer zone also. However, one tanker was observed sprinkling water inside the unit(see photo 35) which would not be sufficient since the area was quite large.
- The unit has no catch drain, siltation pond around the large dumps or near the stone fines which has every chance during rain for carrying the silt to the nearby low land areas, which has reservoir or pond beneath the dump area as reflected in the photograph annexed(see photo 46).
- The large slope of dumps of stone fines were so steep. As a result, the damage to the life and property may happen at any time (see photo 33).
- The unit has neither water reservoir nor rain water harvesting system to recharge the surrounding area.
- The committee installed RDS sampler for the measurement of RSPM and the observed value is 495.5 $\mu\text{g}/\text{m}^3$. (Test report Annexed)

M/s Shetla Stone Works:

- The unit has negligible dust emission inside the premises.
- The raw material that was fed into the hopper was wet.
- Various water spraying arrangement in the different points of the crusher like transfer unit in the moving belts etc.were provided (see photo 48).
- Proper boundary wall was observed in the unit as reflected in the photograph annexed(see photo 47).
- Plantation was observed in the periphery of the unit(see photo 47).
- Water tanker was observed inside the premises, sprinkling water in and around the project area.

- However, there was neither rain water harvesting system observed nor any ground water recharge provision.
- The unit was devoid of any paved road.
- The workers in the unit were wearing dust masks & helmet (see photo 49).

Apart from M/s P.C. Yadav crushing units and M/s Shetla Stone works in the **Gudwa Mauza**, other stone crushers like M/s Lalan Singh Crusher, M/s Ganesh Tiwari Crusher, M/s Gowardhan Yadav Crusher, M/s Kishore Kumar Stone Crusher, Mohan Singh Stone works, Harinder Yadav Stone Works were inspected (see photo 50) and it was found that all these crushing units were non operational. Physically the team can infer that the CTO and EC condition are not complying in these units like “absence of wind breaking wall, unsatisfactory green belt in the periphery of the unit, no internal paved road, absence of water tanker inside the premises, no stand alone sprinkler observed in and around the crushing machinery”. As the units were non- operational, so no relevant papers were available in/at the premises of the units. **Also the committee could not install any dust measuring instrument inside the premises due to their non operational status.**

The physical detail of the mines visited by the inspecting team of the two mauzas is furnished below. The mauzas are Borna Mauza and Gudwa Mauza.

The Borna Stone Mines of M/s Shiv Shakti Stone Works :

- During the time of inspection, mine was non operational.
- No machine or man power was deployed in the mines.
- Physically it is reflected that mining was not done in a scientific and systematic manner(see photo 9 & 10).
- No proper bench formation was done in the mines(see photo 9 & 10).
- Due to non operational status, no document or mine plan was made available to the committee members.
- Some pillar was erected around the mine.
- No approach pucca road was found inside the mines for the movement of the vehicle.
- Green belt of 7.5 meter was not developed in the mine periphery.
- Top soil dump was not observed.
- No catch drain was observed
- OB dump of the mines was transferred to the periphery of the stone crusher unit which is not permissible.

Apart from **Shiv Shakti Stone Mines**, other stone mines of the Borna area were also visited, which were found in the non operational condition and the following observations were observed in the mines which are furnished below:

- Mines were found to be left in abandoned condition (see photo 12, 15, & 16).
- In most of non operational inspected mines it was found that the CTO and EC condition were not followed.
- The committee did not see proper bench formation in these mines reflected in the photographs annexed(see photo 12, 15, 16, 22, 27, 28).
- OB dump was deposited in the non mine lease areas(see photo 3 & 6).

- None of the units have the catch drain, siltation pond, retaining wall, pucca roads, non availability of water tankers in the mine premises
- As all the mines were left non operational and abandoned, question of CTO and EC availability to the inspecting team was not possible.

The inspecting team visited the **Demba** area and inspected few mines in the area, which is mentioned in the above table. The detailed observations given below are for mine in the premises of M/s Yash Raj black stone works :

- Mine was non operational.
- No bench formation was seen.
- Bench slopes were significantly steep which was more than 70 to 80 degree angle, which is dangerous for man and machinery when the unit will be functional(see photo 53 & 55).
- Small low lying area was seen which acted as some storage of rain water but it was not satisfactory (see photo 55).
- No big sump was visible.
- Stand alone sprinkler was not noticed for sprinkling of water for roads and plants.
- OB dump was scattered here and there.
- Large dump of raw fines in the mines premises were observed.
- No catch drains or retaining wall observed.
- Large dump of stone fines could be observed as shown in the photo 52.
- Some plantation was done in the mine area but the green belt development was not satisfactory(see photo 56).
- Mine pillars were also not observed.
- No pucca approach road observed in the mine area.

M/s Bikash Stone Works:

- This mine is located in the midst of Demba Hills. The mine was non operational.
- In the mining area no man power or supervisor or machines observed inside the mines.
- No proper bench formation done. The faces of the mining or the high wall have become more than 30 to 40 meters in height (see photo 63 & 64).
- Unscientific and unsystematic mining is being done.
- Very little water is being noticed in the lower portion of the mine which seems to act as a sump.
- No green belt was observed.
- Approach road was not made pucca.
- The mine faces have become very steep and dangerous due to height and steepness.
- Some OB dump observed just behind the mine on the hill. (see photo 65).
- No catch drain, siltation pond, retaining wall around the OB dump observed.
- As the mine was non- operational and the CTO and EC could not be obtained.

M/s MaaAmba Stone Works:

- The mine was found non operational.
- Some benches in overburden and ore could be observed. But they were not of proper height & width (see photo 66).
- Unscientific and unsystematic mining is being done.
- Large volume of water was stored in the mine in the sump(see photo 66 & 68).
- OB material was seen dump in the sump (see photo 68).
- Some plantation is being done on one side of the mine(see photo 67).
- Top soil dump could not be observed.
- Pucca approach road was not observed in the mine.
- Fixed water sprinkling system was absent.
- As the mine was closed, no paper from the mine could be obtained.

Note: It is pertinent to mention that at many places there were no crusher/mine officials/staff to explain. At such places name of the crusher & their owners were known with the help of District Mining officer, Sahibganj and officials of JSPCB, RO Dumka.

Recommendations of the Committee:

1. All the Stone Crushing and stone Mines units in the area must take adequate Pollution Control Measures to comply with the environmental norms for protection of Environment.
2. Identification of illegal units of mines and stone crushers – Many of the mine and stone crusher owners are not displaying any landmark like name plates on the entry of their units. It seems this is a deliberate attempt. The administration should ensure that company name and address must be displayed near the units. In this process, illegal units will be identified.
3. Illegal Stone Crushers should be stopped immediately to stop the crushing anti social activities causing menace to the society and the extant ecosystem and other sensitive flora and fauna from the area nearby due to heavy dust pollution from the crushing cluster units.
4. Water spraying by manual/ semi manual method with mobile tankers, taps in base of the conveyors only seen. Mobile tankers spray process needs to be further strengthened by increasing the frequency of spray as well as proper spraying arrangements. On site spraying with mist system needs to be arranged in the campus. Fixed water sprinkling system in crushing units, stock yard, loading and transfer zone has to be made. In the hopper water spraying system should be installed.
5. Plantation of local species is in few numbers around the crusher units. A large numbers of tree species need to be planted on a regular basis with replacement of dead plants.
 - a) Rain water harvesting system is rarely seen.
 - b) Covered wall around the crusher units rarely found.
 - c) In these 3 days of site visit, the committee thoroughly studied 21 stone crushers only. In case of all other crusher units i.e. rest 386 units as reported by Member Secretary JSPCB in all probability apprehend to have at least similar situation. The committee advised JSPCB representative that as a part of their regular activities they must collect similar data of remaining other crushing units and submit the report with all data ready for the future information.
6. Regular mass awareness programme must be designed in the area especially for crusher and mining owners/supervisors and workers.

7. Legal mines must adhere to the norms/guidelines of the Mines Act/Directorate General of Mine safety.
8. Illegal Crushers and mines need to be closed immediately.
9. State Pollution Control Board should cancel the CTO, if the conditions are not complied.
10. Inspected Crushing Units has no wind breaking walls except one or two. The walls of the individual Crushers may be erected immediately.
11. None of the Crushers has 'Paved Roads' for the movement of Vehicles. Immediate Implementation of Paved Roads inside the Crushing units cluster required.
12. All the Crushers must implement the system of dust catchers in their running system.
13. Plantation in the periphery must be given immediate attention for the mining unit.
14. Proper benches with height & width as prescribed in their approved mine plan must be made. District Mining Officer may make efforts to develop model mines in 4-5 areas of Sahibganj district where mining is practiced/ done as per approved mine plan. Then other mines should be encouraged to follow the model mines.
15. O/B from mines should be strictly dumped in the mine lease area. Catch drains, siltation ponds, retaining wall around O/B dump must be made as soon as possible. At the O/B dumps grassing and vegetation must be done.
16. Top soil should not be thrown. Instead they should be dumped/stored on a place as given in Mine Plan. Later top soil can be used for plantation activities or for mine rehabilitation purpose. Catch drain around top soil dump should also be made.
17. Provision of storage of rainwater/sump must be made in all mines.
18. Fixed water sprinkling system should be installed at dusty places in the mine lease area. A log book should be maintained by all mines mentioning running hours, kilometer reading, maintenance time, idle time etc. of mobile water tankers used in mines. Log book should be signed daily by statutory mining personnel, mate/ overman, etc.
19. The Unit which are non complaint with environmental norms need to be closed, till they take pollution control measures.
20. Immediate steps for monitoring of Air Quality in big Crusher Units with production capacity more than 500TPD through online certified PM10 analyzers with onsite display and its connectivity with JSPCB server be implemented.
21. PM10 analyzer at clusters of 10 or more than 10 small Stone Crusher Units in Cluster be implemented by JSPCB.
22. To make the DMO more vigilant to identify the legal units capacity of District mining officer in terms of qualified manpower under him must be increased.

Summary of the Crushing unit inspected

Name of crusher units	Water spraying system			Haul Road		Dump/ Stock yard	Covered Wall	Drainage Catch drainage,/sump/ drains	Plantation	Remarks
	Vehicular spray	Water tap near conveyor	Spray system as mist	Katcha	Pucca					
1.Shiv Shakti Stone Works	Partially Complied.Noteffective	Crude method .not effective.	Not complied.	YES	Nil	YES , but dumped in the periphery of the crushing unit	no	Little silted catch drain.no siltation ponds, retaining wall around OB dumps.	Very scant	Compliance status poor
2.Borna	nil	nil	nil	yes	nil	Yes	no	Some catch drain	negligible	Compliance

Name of crusher units	Water spraying system			Haul Road		Dump/ Stock yard	Covered Wall	Drainage Catch drainage,/sump/ drains	Plantation	Remarks
	Vehicular spray	Water tap near conveyor	Spray system as mist	Katcha	Pucca					
stone Crusher								made.Siltation ponds nil.		status poor
3.Deo Black Stone Works & Crushers	nil	Partially complied.	nil	Yes	nil	Yes	no	Nil	Very scant	Compliance status poor
4.Neha Stone Works	nil	nil	nil	yes	nil	yes	Wall present in one side	nil	nil	Compliance status poor
5. Crusher of M/s Asraful Haque	nil	nil	nil	yes	nil	Yes	no	Catch drain at some places but needs desiltation. Siltation pond nil	Scanty	Compliance status poor
6. Prakash Chandra Yadav Stone Crusher #1	Yes	Crude method . not effective	Nil	Yes	Nil	Yes, Large	Nil	Nil	Very Scanty	Compliance status poor
7.Mineral India Crusher	No	Nil	Nil	Yes	Nil	Yes	Nil	Nil	Very Scanty	Compliance status poor
8. Prakash Chandra Yadav Stone Crusher #2	No	Nil	Nil	Yes	Nil	Yes	Nil	Nil	Very Scanty	Compliance status poor
9. Shetla Stone Works	Yes	Yes	Nil	Yes	Nil	Yes	Yes	Nil	Satisfactory	Efforts made for compliance
10. Lalan Singh Crusher	No	No	Nil	Yes	Nil	Yes, Small	Nil	Nil	Nil	Compliance status poor
11. Ganesh Tiwari Crusher	No	No	Nil	Yes	Nil	Yes, Small	Nil	Nil	Nil	Compliance status poor
12. Gowardhan Yadav Crusher	No	No	Nil	Yes	Nil	Yes, Small	Nil	Nil	Nil	Compliance status poor
13. Kishore Kumar Stone Crusher	No	No	Nil	Yes	Nil	Yes, Small	Nil	Nil	Nil	Compliance status very poor
14. Mohan Singh Stone works	No	No	Nil	Yes	Nil	Yes, Small	Nil	Nil	Nil	Compliance status very poor
15. Harinder Yadav Stone Works	No	No	Nil	Yes	Nil	Yes, Small	One side wall present.	Nil	Nil	Compliance status poor
16. Yash Raj Black Stone Works	No	No	Nil	Yes	Nil	Yes, Small	Yes	Nil	Moderate	Partially Complied
17. Arjun Black Stone Works	No	No	Nil	Yes	Nil	Yes	Yes	Nil	Moderate	Compliance status Poor, Non operational

Name of crusher units	Water spraying system			Haul Road		Dump/ Stock yard	Covered Wall	Drainage Catch drainage,/sump/ drains	Plantation	Remarks
	Vehicular spray	Water tap near conveyor	Spray system as mist	Katcha	Pucca					
18. BPY Infra Build	No	No	Nil	Yes	Nil	Yes	Yes	Nil	Moderate	Compliance status Poor, Non operational
19. Ascent Infra Build	Nil	Nil	Nil	Yes	No	Yes	No	No	No	Compliance status Poor, Non operational
20. Rajeev Ranjan Stone Works	Nil	Yes	Nil	Yes	No	Yes	Yes	No	Yes	Partially complied but Non operational
21. MaaAmba Stone Crushers	Nil	Nil	Nil	Yes	No	Yes	No	No	Very Scanty	Compliance status Poor, Non operational

Summary of the Mining unit inspected

Name of mines	Water spraying system			Haul Road		Systematic & Scientific mining	OB Dump/ Stock yard	Sump/Water Storage	Drainage Catch drainage/ Siltation Pond	Plantation	Remarks
	Vehicular spray	Water tap near conveyor	Spray system as mist	Katcha	Pucca						
1. Shiv Shakti Stone Mines - 1	Yes	NA	NA	Yes	No	No	Yes	Compliance status Poor, Non operational	Silted Catch Drains at some places	Very Scanty	Compliance status Poor, Non operational
2. Shiv Shakti Stone Mines - 2	No	NA	NA	Yes	No	No	No	Yes	Nil	Not Found	Compliance status Poor, Non operational
3. Borna Mines	No	NA	NA	Yes	No	No	Yes	Yes	Catch Drains at some places. Siltation Pond Nil	Very Scanty	Compliance status Poor, Non operational
4. Deo Black Stone Mines	No	NA	NA	Yes	No	No	Yes	Yes	Catch Drain Nil Siltation Pond Nil	Scanty	Compliance status Poor, Non operational
5. Md Abdur Razzak Mines	No	NA	NA	Yes	No	No	No	Yes	Catch Drain Nil Siltation Pond Nil	Scanty	Compliance status Poor, Non operational
6. Mines of M/s Asraful Haque	No	NA	NA	Yes	No	No	Yes	Yes	Catch drain at some places but needs disiltation. Siltation pond nil.	Scanty	Partially complied. Non operational
7. Bajrangwalee Stone Mines	Yes	NA	NA	Yes	No	No	Yes	Yes	Catch Drains at some	Moderate	Partially complied.

Name of mines	Water spraying system			Haul Road		Systematic & Scientific mining	OB Dump/ Stock yard	Sump/Water Storage	Drainage Catch drainage/ Siltation Pond	Plantation	Remarks
	Vehicular spray	Water tap near conveyor	Spray system as mist	Katcha	Pucca						
									places Siltation Pond Nil		
8 Mineral India Mines	Yes	NA	NA	Yes	No	No	Yes	Yes	Catch Drains at some places Siltation Pond Nil	Moderate	Partially complied
9 Hill Movement Mines	Yes	NA	NA	Yes	No	No	Yes	Yes	Catch Drains at some places Siltation Pond Nil	Moderate	Partially complied
10 Demba Mines	No	NA	NA	Yes	No	No	Fine stone dust dump	Yes	Catch Drains nil Siltation Pond Nil	scarcely	Compliance status Poor, Non operational
11 Bikash Stone Works	No	NA	NA	Yes	No	No	Yes	Yes but very little water	Catch Drains nil Siltation Pond Nil	nil	Compliance status Poor, Non operational
12 Maa Amba Stone Works Mines	No	NA	NA	Yes	No	No	No	Yes	Catch Drains nil Siltation Pond Nil	Moderate	Compliance status Poor, Non operational
13 Mahabir Eng. Construction Pvt Ltd.	No	NA	NA	Yes	No	No	no	Yes	Catch Drains nil Siltation Pond Nil	Moderate	Compliance status Poor, Non operational

❖ As per the NGT order, the committee should undertake Carrying Capacity Assessment, Ambient Air Quality Assessment and effectiveness of Pollution Control Devices of the stone mining and stone crushing units apart from any other relevant study.

Note:

Regarding Carrying Capacity Assessment, Ambient Air Quality Assessment and effectiveness of Pollution Control Devices is a study of one year to arrive at a certain conclusion. This in-depth study requires 'Secondary Data Base' of at least last five years and one 'Primary Data Base' to arrive at a meaningful conclusion through 'Time Series' analysis. Already in the World Bank project - National Ganga River Basin Authority (NGRBA) a project on industrial monitoring and assessment is given to Jadavpur University. Considering the gravity, similar study may be awarded to Department of Environmental Engineering, Jadavpur University or any other reputed Institute.

Dr. BK Tewary
24/10/19

Dr. BK Tewary
Member SEIAA

Ravindra Prasad
24/10/19

Ravindra Prasad
RO, JSPCB Dumka

Rajeev Ranjan
25/10/19

Rajeev Ranjan, Scientist-'D'
RO Ranchi, MoEF&CC

Rita Saha
30.10.19

Rita Saha, Scientist-'D'
CPCB, ERD, Kolkata



Photo 1 & 2 :Photo of dust emissions in the crusher unit of M/s Shiv Shakti stone works



Photo3: Photo of overburden material on one side of the crusher unit of M/s Shiv Shakti stone works



Photo4 : Photo of water sprinkling by a pipe. Dust emissions can be seen



Photo 5:Photo of dust layers on a tree near the of crusher unit of M/s Shiv Shakti stone works.



Photo 6:Photo of silted catch drains on one side OB dump adjacent to crusher of M/s Shiv Shakti stone works.



Photo7:Photo of dust emissions at hopper while raw materials unloading.



Photo 8:Photo of some plantation/trees at crusher of M/s Shiv Shakti stone works.



Photo9& 10:Photo of unsystematic mining with no benches/improper benches in the mines of Borna stone Mines of M/s Shiv Shakti stone works. Water accumulation in the lower portion can be seen.

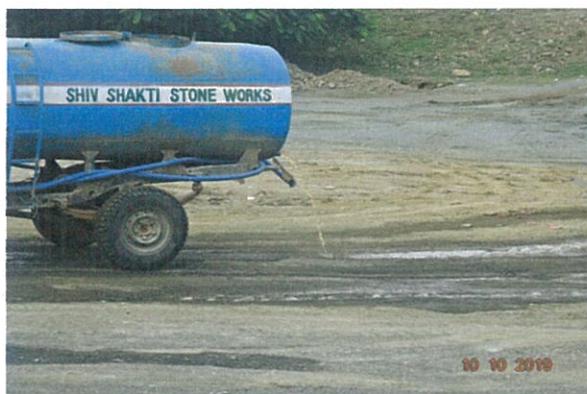


Photo11:Photo of water sprinkling by water tanker in crusher area of M/s Shiv Shakti stone works.



Photo 12 :Photo of unsystematic mining with no benches/improper benches in 2nd mines of Borna stone Mines of M/s Shiv Shakti stone works.



Photo 13: Photo of stone crusher unit with water tank and pipes of Borna stone crusher.



Photo 14: Photo of improper catch drains and siltation ponds around the stone dust fines dump area.



Photo 15& 16: Photo of unsystematic mining with improper bench formation. Mining in the midst of Borna hills.



Photo 17& 18: Photo of some catch drains around the OB dump of mines near Borna stone crusher. Siltation ponds and retaining wall around the OB dump not made.



Photo 19: Photo of an abandoned mines in Borna area. No fencing around the mine periphery was done.

Photo 20: Photo of another abandoned mines. No fencing around the mine periphery done.



Photo 21: Photo of crusher unit, stone fines dumps and OB dump of Deo Blackstone crushers and mines

Photo 22 : Photo of unsystematic mining with no benches/improper benches of Deo Blackstone mines.



Photo 23& 24: Photo of some water spraying arrangements at Deo Blackstone crushers.



Photo 25: Photo of crusher unit of Neha stone works in Borna area

Photo26 : Photo of brick wall in Neha stone crushers in Borna area.



Photo 27:Photo of mines of M/s Abdur Razzak in Borna.

Photo 28:Photo of M/s Asraful Haque mines in Borna area.Bench formation not done. Waterlogged.



Photo 29:Photo of some plantation at the periphery of M/s Asraful Haque stone crushers



Photo30: Photo of OB material thrown near the road . At the extreme end is a school.

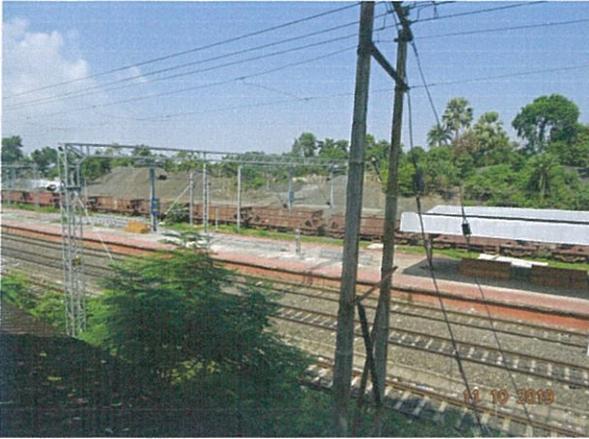


Photo31:Photo of stone chips heaps at the Sakrigali railway station.

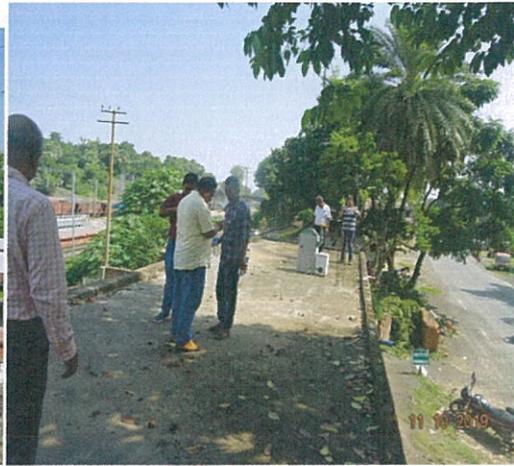


Photo32:Photo of particulate matter measuring Instrument near the Sakrigali railway station.



Photo33:Photo of stone fines dump with steep angle of slope at M/s P.C Yadav crusher.



Photo 34:Photo of thin metal retaining Structure at toe of dumps.



Photo35:Photo of water tanker at M/s P.C Yadav Crusher



Photo36:Photo of improper benches at M/s Bajrangwalee stone mines.

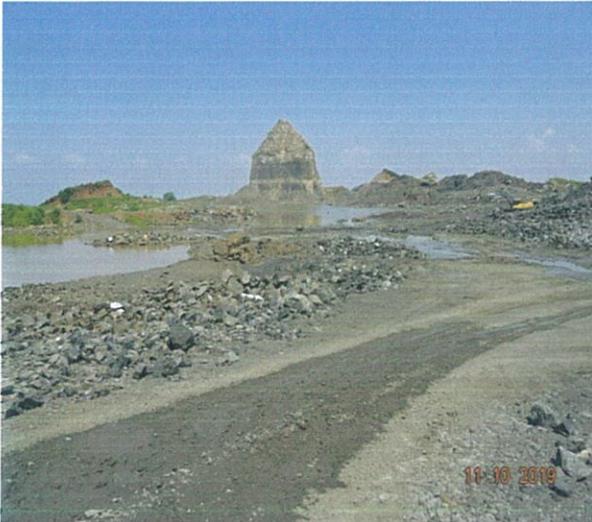


Photo37:Photo of unsystematic and unscientific mining done for a hillock.Such mining poses dangers to men and material(near to M/s Mineral India Mines)



Photo 38: Photo of sump in the mines of M/s Bajrangwalee stone mines



Photo39:Photo of improper & dangerous bench formation in M/s Bajrangwalee stone mines



Photo40:Photo of water tanker sprinkling water in M/s Bajrangwalee stone mines

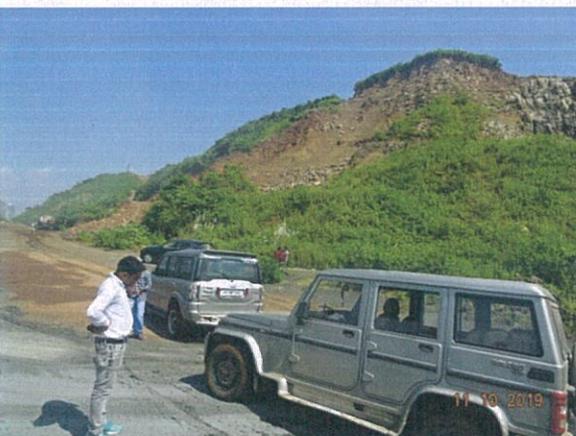


Photo41: Photo of OB dump at the sides of the hill M/s Bajrangwalee stone mines

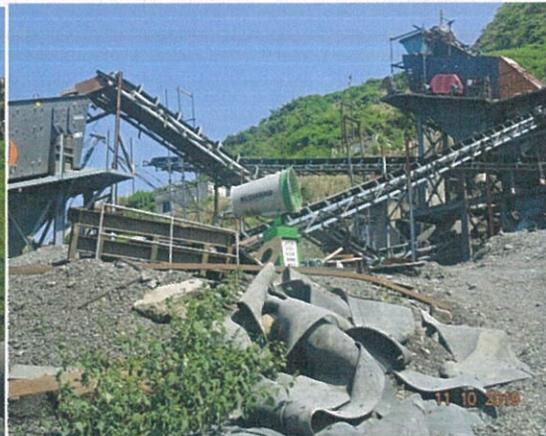


Photo42:Photo of water/mist canon at M/s Prakash Chandra Yadav stone crushers.



Photo 43& 44: Photo of dust emissions at M/s Prakash Chandra Yadav stone crushers.

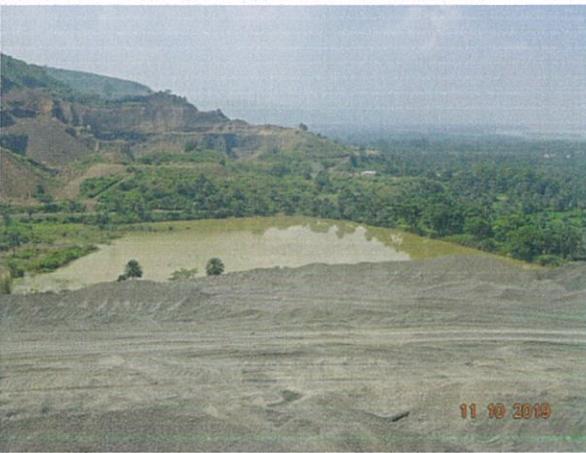


Photo 45: Photo of dust emissions at M/s Prakash Chandra Yadav stone crushers.

Photo 46: Photo of a water reservoir near the of M/s Prakash Chandra Yadav stone crushers.



Photo 47: Photo of wall and plantations at crusher unit of M/s Shetla stone works

Photo 48: Photo of water spraying arrangements in crusher unit of M/s Shetla stone works



Photo49: Photo of dust masks and helmets provided to workers at M/s Shetla stone works

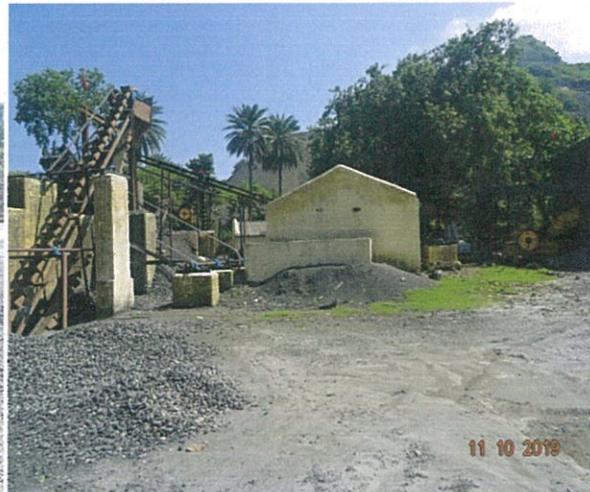


Photo50: Photo of non operational crushing units in the Gudwamauza



Photo51: Photo of crusher units of M/s Yashraj blackstone works



Photo52: Photo of Large stone fine dump just besides the green belt with no catch drains/ retaining wall.



Photo53:Photo ofDemba Mines in premises of M/s Yash Raj Black stone works. Improper Benches can be seen.

Photo54: Photo of a spray arrangement below hopper of M/s Yash Raj Black stone works.



Photo55:Photo of some water in the lower portion of the Demba mines.

Photo56:Photo of some plantations at the Demba Mines.



Photo57 &58:Photo of crushing unit of Ascent InfraBuild. Behind OB dumps of stone mines of different owners are heaped on the hills without any catch drains,retaining walls.



Photo59:Photo of metal sheet wall structure at Stone crushing unit of M/s Rajeev Ranjan stone works.



Photo 60:Photo of some plantations in one side of the crushing unit of M/s Rajeev Ranjan stone works.



Photo61:Photo of water spraying arrangements in crushing unit of M/s Rajeev Ranjan stone works



Photo62:Photo of crushing unit of M/s Ma Amba stone crushers.



Photo63&64:Photo of unsystematic mining and improper benches in mine of M/s Bikash stone works.



Photo65:Photo of OB dumps on the hills near the mines of M/s Bikash stone works



Photo66:Photo of benches and water in mines of M/s MaaAmba stone works



Photo67:Photo of some plantations in the mines periphery of M/s MaaAmba stone works.



Photo68 :Photo of water in the sump and some backfilling in mines ofM/s MaaAmba stone works



Photo69:Photo of benches of mines of M/s Mahabir Engg. Construction Pvt. Ltd.



JHARKHAND POLLUTION CONTROL BOARD, RANCHI

AMBIENT AIR QUALITY REPORT

Name of Industry :- **Sakrigali
Sahibganj**
Date of Sampling : 29.09.2019 to 30.09.2019
Weather condition: **Cloudly**

Sampling Position :
1. Ambadiha
2. Hathigarh
3. Kirokuria
4. Gadwa

Time	SO ₂	NO _x	RSPM
Point 1			
5 PM to 9 PM	19.50	22.20	340
9 PM to 1 AM	18.80	23.20	
Maximum	19.50	23.20	340
Average	19.15	22.70	340
Point 2			
5.30 PM to 9.30 PM	18.90	24.50	360
9.30 PM to 1.30 AM	18.20	24.10	
Maximum	18.90	24.50	360
Average	18.55	24.30	360
Point 3			
7 PM to 11 PM	19.90	23.90	355
11 PM to 3 AM	18.20	22.50	
Maximum	19.90	23.90	355
Average	19.05	23.20	355
Point 4			
7.30 PM to 11.30 PM	19.20	24.10	355
11.30 PM to 3.30 AM	18.50	23.50	
Maximum	19.20	24.10	355
Average	18.85	23.80	355

NOTE : All values are expressed in micro gram/cubic metre.

Remarks :


Lab in Charge


Regional Officer

Board Analyst



JHARKHAND POLLUTION CONTROL BOARD, RANCHI

AMBIENT AIR QUALITY REPORT

Name of Industry :- **Barharwa, Dist.- Sahibganj**
Sahibganj

Date of Sampling : 01.10.2019 to 02.10.2019

Weather condition: **Cloudy**

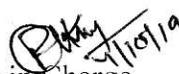
Sampling Position :

1. Borna
2. Gangopara Bedo
3. Mangaladih

Time	SO ₂	NO _x	RSPM
Point 1			
5 PM to 9 PM	20.00	22.90	
9 PM to 01 AM	19.80	23.80	360
Maximum	20.00	23.80	360
Average	19.90	23.35	360
Point 2			
1.30 PM to 9.30 PM	18.90	24.50	
9.30 PM to 01.30 AM	19.10	23.60	320
Maximum	19.10	24.50	320
Average	19.00	24.05	320
Point 3			
7 PM to 11 PM	18.20	22.50	
11 PM to 03 AM	19.50	24.10	340
Maximum	19.50	24.10	340
Average	18.85	23.30	340

NOTE : All values are expressed in micro gram/cubic metre.

Remarks :


Lab in Charge


Regional Officer

Board Analyst



JHARKHAND POLLUTION CONTROL BOARD, RANCHI

AMBIENT AIR QUALITY REPORT

Name of Industry **Mirzachowki**
Sahibganj
 Date of Sampling : 27.09.2019 to 28.09.2019
 Weather condition: **Cloudy**

Sampling Position :
 1. Near Rly Siding
 2. Nimgachi
 3. Belbhadri

Time	SO ₂	NO _x	RSPM
Point 1			
5 PM to 9 PM	18.30	22.10	
9 PM to 01 AM	18.50	23.05	350
Maximum	18.50	23.05	350
Average	18.40	22.56	350
Point 2			
1.30 PM to 9.30 PM	19.10	23.10	
9.30 PM to 01.30 AM	19.05	22.50	370
Maximum	19.10	23.10	370
Average	19.07	22.80	370
Point 3			
7 PM to 11 PM	18.50	23.50	
11 PM to 03 AM	19.20	24.90	365
Maximum	19.20	24.90	365
Average	18.85	24.20	365

NOTE : All values are expressed in micro gram/cubic metre.

Remarks :

Lab in Charge

Regional Officer

Board Analyst



JHARKHAND POLLUTION CONTROL BOARD, RANCHI

AMBIENT AIR QUALITY REPORT

Name of Industry **Mahadeoganj, Distt.- Sahibganj**

Sahibganj

Date of Sampling : 03.10.2019 to 04.10.2019

Weather condition: **Cloudy**

Sampling Position :

1. Jokmari
2. Marikuti
3. Bhawani Chowki

Time	SO ₂	NO _x	RSPM
Point 1			
5 PM to 9 PM	19.10	23.20	
9 PM to 01 AM	18.20	22.90	380
Maximum	19.10	23.20	380
Average	18.62	23.05	380
Point 2			
1.30 PM to 9.30 PM	18.50	22.80	
9.30 PM to 01.30 AM	18.90	24.10	390
Maximum	18.90	24.10	390
Average	18.70	23.45	390
Point 3			
7 PM to 11 PM	19.20	23.50	
11 PM to 03 AM	19.50	24.10	350
Maximum	19.50	24.10	350
Average	19.35	23.80	350

NOTE : All values are expressed in micro gram/cubic metre.

Remarks :

Lab in Charge

(Signature)
4/10/19

Regional Officer

(Signature)
04/10/19

Board Analyst

Barharwe, Sahebganj, Jharkhand

Chhota panchkuli

Kusumpokhhar

Amjhor

Area 6

Area 7

Borna

Area 7

Area 5

Area 3

Area 2

Area 12

Area 4

Area 11

Area 10

Area 10

Kesro

Bunda Mago

Ranga

Kendua

Bijaipur

Barha

Legend

- Area
- Borna
- Feature 1

Google Earth

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Image © 2019 CNES / Airbus

06/11/19

1 km

N

**Sakarigali, Sahebganj,
Jharkhand**

- Legend**
- Area
 - Sakarigali
 - Feature 1

Maharajpur

Chhota Bhageamariand Partaba

Ambadih

Area 20

Chhota Bhageamari



300 m

Google Earth

Image © 2019 CNES / Airbus
© 2018 Google

84
18/11/19

Barharwe, Sahebganj, Jharkhand

Chhota panchkuli

Kusumpokhnar

Amjhor

Area 6

Area 7

Area 7

Area 5

Borina

Area 10

Area 11

Area 12

Area 3

Area 2

Area 4

Area 10

Kesro

Bunda Mago

Kendua

Ranga

Bijalpur

Barha

Legend

- Area
- Borna
- Feature 1

Google Earth

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Image © 2019 CNES, Airbus

1 km



Handwritten signature and date: 27/11/19

Mirjachowki, Sahebganj, Jharkhand

Legend

- Feature 1
- Mirjachowki 2

Hajipur

Patwartola

Area 18

Banskola

Gari

Butaha

Area 19

Bartala

Area 13

Area 14

Area 15

Area 16

Area 17

Google Earth

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Image © 2018 CNES / Airbus



2 km

86
Skill 19

Sl. No	Industry Name	stationId	analyserId	Parameter	Process Value	Unit	Submitted Date
1	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	5.03	ug/m3	04-11-2019 20:45
2	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	5.03	ug/m3	04-11-2019 20:45
3	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	5.03	ug/m3	04-11-2019 20:30
4	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	5.37	ug/m3	04-11-2019 20:15
5	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	5.23	ug/m3	04-11-2019 15:30
6	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	5.23	ug/m3	04-11-2019 15:15
7	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	3.41	ug/m3	04-11-2019 15:00
8	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	3.41	ug/m3	04-11-2019 15:00
9	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	2.57	ug/m3	04-11-2019 10:45
10	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	2.57	ug/m3	04-11-2019 10:30
11	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	2.57	ug/m3	04-11-2019 10:30
12	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	2.57	ug/m3	04-11-2019 10:15
13	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	5.18	ug/m3	04-11-2019 00:30
14	Sunil Kumar	CAAQMS	jhar_analyzer_67	PM10	5.56	ug/m3	03-11-2019 23:45

Sl. No	Industry Name	stationId	analyserId	Parameter	Process Value	Unit	Submitted Date
1	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.17	ug/m3	31-10-2019 23:30
2	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.17	ug/m3	31-10-2019 23:15
3	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.17	ug/m3	31-10-2019 23:15
4	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.17	ug/m3	31-10-2019 23:00
5	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.17	ug/m3	31-10-2019 22:45
6	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.17	ug/m3	31-10-2019 22:30
7	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	53.6	ug/m3	31-10-2019 22:15
8	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	53.33	ug/m3	31-10-2019 22:00
9	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	53.33	ug/m3	31-10-2019 21:45
10	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	53.33	ug/m3	31-10-2019 21:30
11	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	47.96	ug/m3	31-10-2019 21:15
12	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 21:00
13	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 21:00
14	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 20:45
15	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 20:30
16	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 20:15
17	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 20:00
18	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 19:45
19	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 19:30
20	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 19:15
21	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 19:00

22	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 19:00
23	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 18:30
24	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 18:30
25	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 18:15
26	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 17:45
27	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 17:30
28	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 17:15
29	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 17:15
30	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 17:00
31	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 16:30
32	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 16:30
33	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 16:00
34	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 15:45
35	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 15:45
36	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 15:30
37	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 15:15
38	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 15:00
39	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 15:00
40	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 14:45
41	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 14:15
42	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 14:00
43	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	44.13	ug/m3	31-10-2019 14:00

44	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 13:45
45	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 13:30
46	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 13:15
47	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 13:00
48	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 12:45
49	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 12:30
50	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 12:15
51	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 12:15
52	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 11:45
53	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 11:30
54	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 11:15
55	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 11:00
56	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 10:45
57	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 10:45
58	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 10:30
59	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 10:15
60	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 10:00
61	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 09:45
62	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 09:30
63	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 09:15
64	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 09:00
65	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 08:45

66	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.89	ug/m3	31-10-2019 08:45
67	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	58.29	ug/m3	31-10-2019 08:30
68	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	52.92	ug/m3	31-10-2019 08:30
69	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	57.49	ug/m3	31-10-2019 00:15
70	M/S Maa Ambika Traders	CAAQMS	jhar_analyzer_65	PM10	57.49	ug/m3	31-10-2019 00:00

Industry Details From 01/01/2018 To 07/11/2019				
Consent Type :CTO				
S No.	Industry Name	Industry Address	Type of Industry	Mauza Name
1	M/s MAA AMBIKA TRADERS	KHAIRBANI,Pno-89,90	Stone crushers	khairbani
2	B.N. PANDEY STONE WORKS	KALYANI,MAHARAJPUR	Stone crushers	KALYANI
3	M/s Prakash Chandra Yadav (Stone Crushing)	At - Gudwa,P.O: Sakrigali, District-Sahebganj, state- Jharkhand	Stone crushers	Gudwa
4	M/S Swastika Stone Works	At- Bartalla, Post- Mirzachowki, Dist-Sahebganj	Stone Crusher	Bartalla
5	M/S Pratik Stone Works	At-Belbhadri, Post-Mirzachowki, Dist-Sahibganj	Stone Crusher	Belbhadri
6	M/S ANANYA STONE WORKS	MUNDLI	Stone Crusher	MUNDLI
7	M/s Aayushman Stone Works	Mundli, Mirzachowki, Dist.- Sahibganj	Stone Crusher	Mundli
8	M/S DHAMDHAMIA STONE WORKS	MOUZA-BABUPUR	Stone crushers	BABUPUR
9	M/S Jai Maa Stone Works	At-Nimganchi, Post-Mirzachowki, Dist-Sahebganj	Stone crushers	Nimganchi
10	M/S BIRSA MUNDA STONE MINES (NEW)	MOUZA-PRATAPGANJ	Stone Crusher	PRATAPGANJ
11	JAI BAJARANG STONE WORKS	BELBHADRI	Stone Crusher	BELBHADRI
12	Shiv Shankar Stone Works	Ambadih, PLOT NO 259, JB NO 04	Stone crushers	Ambadih
13	M/S BALRAM STONE WORKS	MOUZA-AMBADIHA	Stone crushers	AMBADIHA
14	M/S JAI HANUMAN STONE WORKS	MOUZA-BARA LOHANDA	Stone crushers	BARA LOHANDA
15	M/S ANKIT STONE INDUSTRIES	MAHADEOVARAN	Stone crushers	MAHADEOVARAN
16	M/S KOHINOOR MINING	MOUZA-HATIGARH	Stone crushers	HATIGARH
17	M/S RAJA STONE WORKS	MOUZA-HATIGARH	Stone Crusher	HATIGARH
18	M/S SHIV STONE WORKS	BELBHADRI, MIRZACHOUKI	Mines & Crusher	BELBHADRI
19	M/S KRISHNA STONE WORKS(STONE CRUSHER)	MUNDALI	Stone crushers	MUNDALI
20	M/S KOHINOOR MINING	MOUZA-HATIGARH	Stone crushers	HATIGARH
21	OLD Name M/S SHANKAR STONE WORKS New name M/S GUPTA INDUSTRIES	NIMGACHI	Stone crushers	NIMGACHI
22	M/S RADHA VIDYA SAGAR STONE WORKS	MAUZA - MAHADEOVARAN, AREA 2 BIGHA, MIRZACHOUKI, SAHIBGANJ	Stone crushers	MAHADEOVARAN
23	M/S KUMAR STONE WORKS	NIMGACHI	Mines & Crusher	NIMGACHI
24	M/S RATAN BLACK STONE WORKS	RANGA,BAKUDIHI	Stone crushers	RANGA

Industry Details From 01/01/2018 To 07/11/2019

Consent Type :CTE

S No.	Industry Name	Industry Address	Type of Industry	Mauza Name
1	M/S NOORANI AND BROTHERS	MIRZA CHOWKI	Stone Crusher	TETARIA
2	Deepak Stone Works	Jokmari, Po.- Mahadeoganj, Dist.- Sahibganj	Stone Crusher	Jokmari
3	M/S JAI MAA TARA STONE WORKS	MOUZA-GADARA,MANDRO	Stone Crusher	GADARA
4	M/S MD SAMIM ALAM (CRUSHER)	AT - GANGOPARA BEDO	Stone crushers	GANGOPARA BEDO
5	M/S SRI NIWASH STONE WORKS	At. JOKMARI GUTIBERA,PLOT NO-15,16,38P,AREA-02.88 ACRES	Stone crushers	JOKMARI, GUTIBERA
6	M/S MONU STONE WORKS	NEEMGACHI, PO.- MIRZACHOUKI, DIST.- SAHIBGANJ	Stone Crusher	NEEMGACHI
7	RAMESH KUMAR DOKANIA(STONE CRUSHER)	MAHKUP PO-BINDHUDHAM DIST-SAHIBGANJ	Stone crushers	MAHKUP
8	M/S PUJA STONE WORKS	MOUZA-BIDHMAR PAHAR,P.O.- PATHNA,SAHIBGANJ	Stone Crusher	BIDHMAR PAHAR
9	M/S sai multi stone works	adro no. 44	Stone Crusher	adro no. 44
10	M/S GURUDEO STONE WORKS	GHOOGHI,JIRWABARI,SAHIBGANJ	Stone Crusher	GHOOGHI
11	M/SPRATIBHASTONEWORKS	HAZIPUR DIYARA	Stone Crusher	HAZIPUR DIYARA
12	M/S JAI MATADI STONE WORKS	NEEMGACHHI	Mines & Crusher	NEEMGACHHI
13	M/S SRI RAM STONE WORKS	MOUZA-GADARA,MANDRO	Stone Crusher	GADARA
14	M/S ABUL KASHIM	DHATAPARA	Stone crushers	DHATAPARA NO 104
15	M/S VISHWAKARMA STONE WORKS	BELBHADRI	Stone crushers	BELBHADRI
16	M/S EKRAMUL SK	FATEHPUR	Stone Crusher	FATEHPUR
17	M/s Global Infra & Minerals Pvt. Ltd.	Jokmari(Guttibera), Po.- Mahadeoganj, Dist.- Sahibganj	Stone Crusher	Jokmari(Guttibera)
18	SHIV SHAKTI STONE WORKS	BELBHADRI	Stone Crusher	BELBHADRI
19	JAI BAJARANG STONE WORKS	BELBHADRI	Stone Crusher	BELBHADRI
20	M/S LAXMI STONE WORKS	MOUZA- BARE PARTE	Stone Crusher	BARE PARTE
21	M/s Ganga sagar stone works	mundli	Stone Crusher	mundli
22	M/S GOVIND STONE WORKS	BELBHADRI, PO.- MIRZACHOUKI, DIST.- SAHIBGANJ	Stone Crusher	BELBHADRI
23	NAZAMA STONE WORKS	MANJHIKOLA	Stone Crusher	MANJHIKOLA
24	M/S SUBHAM STONE WORKS	AMBADIHA,SAKRIGALI	Stone crushers	AMBADIHA
25	M/S SHANKAR STONE WORKS	MIRZACHOWKI	Stone Crusher	MATHADIH

26	M/s A. D. Stone Works	Bekchuri, Po.- Taljhari, Dist.- Sahibganj	Stone Crusher	Bekchuri
27	M/S RADHA KRISHNA STONE WORKS	MUNDLI,MIRZACHOWKI	Stone Crusher	MUNDLI
28	M/s G G stone works	Sitapahar	Stone Crusher	Sitapahar
29	Shubham Stone Works	Gadwa, Po.- Sakrigali, Dist.- Sahibganj	Stone Crusher	Gadwa
30	M/S RADHA SWAMI STONE WORKS	MUNDLI,MIRZACHOWKI	Stone Crusher	MUNDLI
31	M/S BAJNATH STONE WORKS	MATHADIH	Stone Crusher	MATHADIH
32	M/S Mahto Stone Works	At- Tetaria, Post- Mirzachowki, Dist- Sahebganj	Stone Crusher	Tetaria
33	M/S Shiv Shambhu stone works	9bigha5katha15dhur	Stone Crusher	mundli
34	M/S RAJ STONE WORKS	MOUZA-BARA LOHANDA	Stone crushers	BARA LOHANDA
35	M/S FIZA STONE WORKS	PIPALJORI NO-211	Stone crushers	PIPALJORI NO-211
36	M/S PIPALJORI STONE WORKS	PIPALJORI	Stone Crusher	PIPALJORI
37	M/S KRISHNA STONE CHIPS	BELBHADRI NO 3	Stone crushers	BELBHADRI NO 3
38	M/S MAHADEO STONE WORKS	MAHADEO BARAN	Stone Crusher	MAHADEO BARAN
39	M/S LAXMI STONE WORKS	MOUZA-BARE PARTE	Stone Crusher	BARE PARTE
40	M/S Umang Stone Works	MUNDLI	Stone Crusher	Mundli
41	M/s Baba Stone Works	Chhoti Bhagamari, Po.- Sakrigali, Ps.- Taljhari, Sahibganj	Stone Crusher	Chhoti Bhagamari
42	SUNIL KUMAR	MOUZA - JHUMRABANDH, PS - RANGA, DIST - SAHEBGANJ	Stone Crusher	DHIBRIKOL
43	M/S New Stoneage Minerals	At- Bartalla, Post- Mirzachowki, Dist- Sahebganj	Stone Crusher	Bartalla
44	M/S BHARTI ENTERPRISES (STONE CRUSHER)	MOUZA -BIDHMAR PAHAR,PO- PATHNA,DIST-SAHIBGANJ	Stone Crusher	BIDHMAR PAHAR
45	Yogandra Prasad Bhagat	Mongladih, Po.- Bindudham, Dist.- Sahibganj	Stone Crusher	Mongladih
46	Maa Durga Stone Works	Mangladih, Po.- Pathna, Dist.- Sahibganj	Stone Crusher	Mangladih
47	M/S JAI MAA SARASWATI STONE WORKS	PAHARPUR, PO.- GOURIPUR, DIST.- SAHIBGANJ	Stone Crusher	PAHARPUR
48	M/S SRI DEVA STONE WORKS	MAHADEO BARAN	Stone Crusher	MAHADEO BARAN
49	M/S GUPTA & BROTHER	MOUZA-CHHOTA LOHANDA	Stone crushers	CHHOTA LOHANDA
50	M/S ALIA STONE WORKS	MUNDALI	Stone Crusher	MUNDALI
51	M/S MAHABIR STONE WORKS	MOUZA-GADARA,MANDRO	Stone Crusher	GADARA
52	M/S LUKHI LAKSHMI STONE WORKS	MIRZA CHOWKI	Stone Crusher	MATHADIH
53	M/S SHASHI STONE WORKS	CHHOTI BHAGIAMARI	Stone Crusher	CHHOTI BHAGIAMARI
54	M/s Maa Kalika Stone Works (Stone Cusher)	Ambade, Po.- Bindudham, Dist.- Sahibganj	Stone crushers	Ambade

55	M/s Usha Stone Works (Stone Crusher)	Adro Mako, Po.- Adro, Mako, Ps.- Boria, Dist.- Sahibganj	Stone crushers	Adro Mako
56	M/S HINDUSTAN STONE WORKS	BELBHADRI	Stone crushers	BELBHADRI
57	M/S RAJA STONE WORKS	MOUZA-HATIGARH	Stone Crusher	HATIGARH
58	M/S SHERU STONE WORKS	BOHA,MADANSAHI	Stone Crusher	BOHA
59	M/S GANGOPARA BEDO STONE MINE	AT+P.O-GANGOPARA,P.S-RANGA,DIST-SAHEBGANJ,JHARKHAND	Mines & Crusher	GANGOPARA BEDO
60	M/S Sant Stone Works	Mouza- Jokmari (Guttibera) Plot No- 38 Area- 3.00 acres Anchal- Mandro District- Sahibganj	Stone Crusher	Jokmari
61	M/S RANJAN STONE WORKS	MOUZA-NEEMGACHI,MIRZACHOUKI	Stone Crusher	NEEMGACHI
62	M/S Maa Vaishnavi Stone Works (Stone Crusher)	Mundli, Po.+Ps- Mirzachouki, Dist.- Sahibganj	Stone crushers	Mundli