

To

Date: 24/11/2016

Additional Director (South)

Ministry of Environment & Forest

Regional Office (Southern Zone)

Kandriya Sadan, IVth Floor, E & F Wings,

17th Main Road, II Block Koramangala,

Bangalore-560034

Subject: 'Six Monthly Compliance Report of Surla Sonshi Iron Ore Mine, Goa' (T.C.No. 21/1954, 5/1954, 20/1954) for April 2016 to September 2016

Respected Sir,

We are herewith submitting the condition wise compliance report & corresponding annexures and CD as per the conditions and their corresponding annexures laid down in the Environmental Clearance J-11015/44/2004-IA.II(M) dtd 01.01.2008 for "Surla Sonshi Iron Ore Mine (T.C.No. 21/1954, 5/1954, 20/1954)" for the period April 2016 to September 2016

Thanking You

Yours faithfully,

For Sesa Resource Limited,

Ulhas Betkikar Mines Manager

Surla Sonshi Iron Ore Mine

Enclosures: Six monthly compliance report & corresponding annexures and CD of Surla Sonshi Iron Ore Mine for the period of April 2016 to September 2016

C.C – Member Secretary, Goa State Pollution Control Board -- CGWB

Sesa Resources Limited: Surla-Sonshi Mine, Post Dignem, (Goa) - 403 505 India

Registered Office: Sesa Ghor, 20 EDC Complex, Patto, Panaji (Goa) - 403 001 India CIN: U13209GA1965PLC000030

Compliance To Conditions of Environmental Clearance Issued By Ministry of Environment and Forests For SURLA-SONSHI IRON ORE MINE

T.C. No. 21/1954, T.C. No. 5/1954 and T.C No. 20/1954

Letter No: J-11015/44/2004-IA.II(M)

Production: 1.1 MTPA as per Environment clearance, however the current production limit is 0.496 MTPA as per capping imposed by State Government

Period -April 2016 -September 2016

A.	SPECIFIC	CONDITIONS:-

Sl. No.	Conditions of Environmental	Status of Compliance	Remarks
	Clearance		
(i)	The environmental clearance is accorded only for two years during which period detailed hydrogeological study (quality and	Hydrogeological study is carried out and report was submitted to the Ministry of Environment & Forests. Ministry extended the	
	quantity) on impact of mining on hydrogeology (pre-monsoon, monsoon and post-monsoon) shall be carried out and the report submitted to Ministry. (Stands deleted as per MoEF letter no. J-11015/44/2004-IA.II(M) dated January 1, 2008).	period of environmental clearance vide MoEF letter no. J-11015/44/2004-IA.II (M) dated January 1, 2008).	
(ii)	Mining shall not be undertaken in forestland within the lease area for which forestry clearance/permission has not been obtained.	Is being complied. (Forest clearance has been obtained for diversion of 24,9810 ha forest area under TC No 21/1954 (letter no. F. No. 8-490/1989-FC dated 28th Jan 2009))	
(iii)	No dumping of OB where natural slopes already exceeding 28° angle.	No dumping is carried out where the natural slope exceeds 28° angle.	
(iv)	Top soil should be stacked properly with adequate measures at earmarked sites. It should be used for reclamation and rehabilitation of the mined out areas.	The mine is in operation for last 50 years and Most of the areas within the mining lease are broken up for mining. Hence there is no generation of top soil.	
(v)	OB and other wastes should be stacked at earmarked sites only and should not be kept active for long periods of time.	Plantation is undertaken along the dead dump slopes. Protective walls are provided. Overburden is stacked properly and the	2 2

	Pleatation also 14.1		
	Plantation should be taken up for soil stabilisation along the slopes of	the geotextile and fast growing	
	the dump and terraced after every	native species. The un-finalized	
	5-6 m of height and overall slope	dumps are covered with	
	angle shall be maintained not	A STATE OF THE STA	
	exceeding 28°. Sedimentation pits	being constructed at the toe wall	
	shall be constructed at the corners	of the dump.	
	of the garland drains. Retention/Toe		
	walls shall be provided at the base	in the second of	
(i)	of the dumps.		
(vi)	Use of geotextiles for dump		Dumps are covered with the
	stabilisation shall be taken up in the	for covering dump slopes to	geotextile
(::)	critical areas.	prevent soil erosion.	
(vii)	Catch drains, and siltation ponds of		
	appropriate size, gully plugs and	channelized into mining pits.	
	check dams should be constructed	Additionally garland drains and	
	to arrest silt and sediment flows	series of settling ponds of	
	from the mining operations,	appropriate size and check dams	
	Desilting operations shall be	are constructed to arrest silt and	
	undertaken regularly and	to ensure no sediment flow from	
	particularly after very monsoon	the mining operations. Desilting	
	Garland drain (size, gradient &	of the settling ponds to increase	
	length) shall be constructed for both	their capacity is carried out	
	mine pit and for the waste dump.	before the onset of monscon	
	Sump capacity should be designed	every year.	
	keeping 50 % safety margin over		a a c
	and above the peak sudden rainfall		
	and maximum discharge in the area		
	adjoining the mine site. Sump		· · · · · · · · · · · · · · · · · · ·
	capacity should also provide		
	adequate retention period to allow		
	proper settling of silt material.		
	Sedimentation pits should be constructed at the corners of the		
	garland drains Desilting agreement		
	garland drains. Desilting operations		
	shall be undertaken after very monsoon.	a state of the sent of the con-	
(viii)		TOTAL Management and Company of the Control of the	
(VIII)	Drills should be wet operated or with dust extractors.	Wet drilling method is practiced	
(iv)		with dust extractors.	
(ix)	Controlled Blasting should be	Controlled blasting with Honel	
	practiced and only during daytime.	technology is adopted wherever	
	The mitigative measures for control	hard rock is encounter and	
	of ground vibrations to arrest the	adequate precaution are taken.	
	fly rocks and boulders should be	Blasting if any is carried out	
	implemented.	only during the day time.	
		Necessary safety measures are	
(10)		taken during blasting.	
(x)	Water sprinkling system should be	Regular water sprinkfing is done	
	provided to check fugitive	to check fugitive emission.	
		The state of the s	

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	emissions from ancillary operations such as crushing, screening plant, etc.		
(xi)	Measures shall be taken for proper maintenance of vehicles used in mining operations and in transportation of mineral ore and in ensuring that emissions are within prescribed norms. The vehicles should be covered with tarpaulin and should not be overloaded.	Proper maintenance of vehicles and mining machinery is done to ensure that emissions are within prescribed norms. Utmost care is taken to ensure that all trucks are covered with tarpaulin and not overloaded. Also PUC certificates for transportation vehicles are maintained.	
(xii)	Plantation shall be done which includes a green belt of adequate width around the ML area, along roads, OB dumps and non mineralised areas identified for plantation by planting suitable native species in consultation with the local DFO/Agriculture Department. The density of trees should be around 2500 plants per hectare. Substantial allocation of funds shall be made for afforestation and reclamation and details furnished to the Ministry and to the MOEF RO, Bangalore.	Plantation of native species is being carried out on dumps	Plantation is been carried out by planting native species like cashew. Total plantation carried out for the period Apr 2016-Sep 2016 is 500 samplings planted within mine lease in an area of 0.2 Ha,
(xiii)	A Progressive Mine closure plan clearly indicating the year of backfilling, area to be backfilled, quantum of OB to be backfilled and are to be reclaimed with plantation shall be prepared and implemented.		
(xiv)	Water harvesting measures should be taken up in and around mine site. Further, desiltation shall be done every year before the onset of monsoon.	The rain water falling within the lease area is channelized into mining pits through trenches and garland drains. The water thus harvested is used for activities like beneficiation and dust supersession.	
(xv)	Prior approval of the MOEF and CGWA shall be obtained for using groundwater for mining operations. Additional water requirement, if any, shall be met from recycling of water from mining/processing operations and from water harvesting measures.	Permission from competent authority obtained.	Permission from WRD for pumping water from Mine pit is obtained for Surla Mine via registration certificate No. MIN/04/2015 dated 11/08/2015

		The state of the s	
(xvi)	Regular monitoring of ground water level and quality should be carried out by establishing a network of existing wells and constructing new peizometers at suitable locations in project area. The frequency of monitoring should be minimum four times a	Regular monitoring of Ground water level and quality is carried out and the reports are submitted to CGWB and MoEF. Settling ponds are constructed at suitable places in the mine, The settling ponds, are de-silted every year.	Graphical Representation of Ground water Level and Quality monitoring results are attached as Annexure 2 .
	year – January, pre monsoon		7
	(April/May), monsoon (August),	* 3 a	A
	post monsoon (November), and	a late a distribution of the second	=
	winter (January) seasons for		
	groundwater level and in May for		*
	quality, particularly for heavy		
	metals. Data generated from	20	12
5	groundwater regime monitoring		
	will be submitted to CGWB,	s " , " , " , " , " , " , " , " , " , "	
1000	Regional office on an annual basis.	4 at 1	no 15
	The monitoring shall include levels	* * * * * * * * * * * * * * * * * * * *	8
	of heavy metals including iron.		
(xvii)	A Final Mine Closure Plan along	Final mine closure plan	
	with details of Corpus Fund should be submitted to the Ministry of	approved by IBM would be	
	Environment & Forests 5 years in	submitted to MOEF in due	
	advance of final mine closure for	course of time in accordance with Rule 23(c) of MCDR 1988.	
	approval.	Will redic 25(c) of Wie Die 1988.	2 ***
(xviii)	Consent to Operate shall be	Consent to operate and	
	obtained from the SPCB for	authorization under Water Act	
	expansion of mining operations.	1974, Air Act 1981 and	8)
		Hazardous Waste Rules, 2008	
	6	from Goa State Pollution Control	1.00
	8 9 × 6 ⁵⁷³	Board (letter No. 5/5009/15- PCB/CI-572 dated 7th	
	* 4. * *	PCB/CI-572 dated 7th September 2015) is obtained.	
(xix)	Environmental Clearance is subject	Complied.	
	to final order of the Hon'ble		
	Supreme Court of India in the		
	matter of Goa Foundation vs Union		
	of India in Civil Writ Petition No.	A SUPPLEMENT OF THE SUPPLEMENT	"
	460 of 2004, as may be applicable to this project.		2
(xx)	Adequate measures for soil erosion,	Environmental protection	Following environmental
25 855	prevention and control shall be	measure is being taken before	protective measures are taken
	undertaken. Details of	the onset of monscon season	during the reporting period
	implementation on the same shall	every year.	De-silting
	be submitted to the regional Office		Rock wall constructions
	of the Ministry within 6 months.		The second secon
R CEN	ERAL CONDITIONS:-		Garland Grain
D. GEN.	LIMIL CONDITIONS:-		
		* 30 H 128 * 5 TH	

SI. No.	Conditions	Compliance	Remarks
(i)	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forests.	There is no change in mining technology. All the workings are carried out as per the approval granted by Indian Bureau of Mines.	
(ii)	No change in the calendar plan including excavation, quantum of iron ore, waste dumps should be made.	There won't be any changes in the plan including excavation, quantum of mineral iron ore and waste is been made.	
(iii)	Four ambient air quality monitoring stations should be established in the core zone as well as in the buffer zone for monitoring RPM, SPM, NOX and S02. Location of the ambient air quality stations should be decided based on meteorological data, topographical features and environmentally and ecologically sensitive targets and the frequency of monitoring should be undertaken in consultation with the State Pollution Control Board.	Ambient air monitoring is conducted as per NAAQS in buffer zone (four locations) and Mine Specific Standard in core zone (four locations). Monitoring is carried out by an in-house MoEF accredited laboratory. Reports submitted to State Pollution Control Board.	Graphical Representati on of Air Monitoring Results are attached as Annexure-1
(iv)	Data on environmental quality should be regularly submitted to the Ministry including its Regional Office at Bangalore and the State Pollution Control Board/Central Pollution Control Board once in six months.	Regular monitoring for water and Air quality is carried out and the reports are submitted to MoEF regional office and Goa State Pollution Control Board.	Graphical Representati on of Air and Water Monitoring Results are attached as Annexure-1 and Annexure-2 respectively.
(v)	Adequate measures for control of fugitive emissions should be taken during drilling & blasting operations, loading and transportation of mineral, etc. Fugitive dust emission should be regularly monitored and data recorded properly. Water spraying arrangement over haul roads, loading and unloading points and transportation of minerals, etc. should be provided and properly maintained.	Adequate measures for control of fugitive emissions are being taken during drilling & blasting operations, loading and transportation of mineral, etc.	
(vi)	Adequate measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc., should be provided with ear plugs/muffs.	Adequate measures are being taken for control of noise levels below 85 dB(A) in work environment. Workers engaged in blasting and drilling operations, operations of HEMM, etc. are provided with ear plugs / muffs.	
(vii)	Industrial waste water (workshop and wastewater from the mine) should be properly	Waste water generated by vehicle washing is properly collected, treated	

Transmit Landson	Javania - Javani		5
(viii)	collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May 1993 and 31 st December 1993 or as amended from time to time. Oil and grease trap should be installed in the mine for treatment before discharge of effluents from the workshop. There shall be no discharge of wastewater from the mine site even during peak monsoon season. Personnel working in dusty areas should wear	installed in the mine for treatment of the waste water from workshop and reused.	
	protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programme of the workers should be undertaken periodically and corrective measures taken, if required	Regular monitoring of workers health is being carried out. However, for the safety of workers at site, engaged at strategic location/dust generation points like loading and unloading points, dust masks are provided. Company has employed doctor who is trained in occupational health. Periodic personal dust monitoring is carried out for the employees for the exposure to dust and health records are maintained.	
(ix)	The data on environmental quality should be collected and analysed either through an inhouse environmental laboratory established with adequate number and type of pollution monitoring and analysis equipment or got analysed through an approved laboratory under the Environment (Protection) Rules, 1986 in consultation with the State Pollution Control Board	Regular Monitoring is carried out for environmental quality parameters through an in-house MoEF accredited Laboratory situated in Codli Mines, Kirlapal- Dabal, Goa.	
(x)	A separate environmental management cell with suitable qualified personnel should be set up under the control of a senior executive who will report directly to the head of the organization.	Environment management cell consists of multidisciplinary qualified personnel. The department reports to the head of the argumization	
(xi)	The funds earmarked for environmental	the head of the organization. Separate funds are earmarked in the	
	protection measures should be kept in separate account and not diverted for any other purpose. Year-wise expenditure should be reported to the Ministry of Environment & Forests.	revenue budget for various environment activities like Reclamation, Dust suppression, Erosion control measures, water treatment etc. and are properly tracked. Year wise expenditure earmarked for environmental protection is regularly reported to MoEF.	
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. y		The total Expenditure Environmental protective for the April 2016 to Sept	measures	
		Purpose	Amount in rs.	
		Dust suppression Erosion control	519689 1532406	
		General environment expenditure	282159	
		Mine reclamation Statutory requirement	22000 977428	
		Total expenditure	3333681	
(xii)	The project authorities should inform to the Regional Office located at Bangalore regarding date of financial closures and final approval of the project by the concerned authorities, and the date of start of land development work.	Regional office, Bangalo informed regarding date closure and final approproject by the concerned a	e of final val of the	
(xiii)	The Regional Office of this Ministry located at Bangalore shall monitor compliance of the stipulated environmental conditions. The project authorities should extend full cooperation to the officer(s) of the Regional Office by furnishing the requisite data/information/monitoring reports.	All necessary support i during the visit and da furnished as per the requir	ta will be	
(xiv)	A copy of the clearance letter should be marked to concerned Panchayat/local NGO, if any, from whom any suggestion/ representation has been received while processing the proposal.	A copy of the clearance marked to concern Pancha		
(xv)	The State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and the collector's/ Tehsildar's Office for 30 days.	Complied.		.0
(xvi)	The project authorities should advertise at least in two local newspapers widely circulated around the project, one of which shall be in the vernacular language of the locality concerned within 7 days of issuance of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and may also be seen at web site of the Ministry of Environment and forests at http://envfor.nic.in.	Advertisement in to newspapers widely circ published. A copy of the submitted to your good of	e same was	

M/s Sesa Environment Laborate

Vedanta Limited , Mining Division , Codli Mines, P.O. Kirlapate , Gov-403727

Recognised by Ministry of Environment, Forests and Climate change, Govt. of India Vide Notification .S.O. 137(E). Dated 12th January 2015, Valid up to 11.01.2020 *Certified by ISO 9001:2008, ISO 14001:2004 and OUSAS 18001:2007

Surface water Analysis Report for the month of September 2016

Mine Name: Surfa Mine

Date of Sample collection: 16,09,2016

Standard method used for analysis: APHA Standard

Test Report No: 160

Date of Receipt of sample: 16.09.2016 Analysis completion date: 21.09.2016

		Location								
Parameter		Permissible limits	Nallah water- Bhillem	Sonshi Nallah Water-Entry to Mine	Sonsbi Nallah water-Exit from Mine	Mine discharge to paddy fields	Prázasakková Hypotochana stávou	Banco Basabalana Bannastrosana		
Colour	Hazen		15	7	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	9	()	6		
pH		5.5 to 9.0	6.54	6.52	6.75	6.5	6.79	6.77		
Turbidity	NJII		8.2	1.0	().9	1.9	5.3	2.4		
Dissolved Solids	mg/lit		36	23	28	23	30	39		
Conductivity	μS/cm		73	46	56	46	78	78		
Suspended Solids	mg/lit	100	8	3	3	VI.	4.	3		
Chlorides	mg/lit		6.9	5	5	().9	[1.9	11.0		
Total Hardness as CaCO3	mg/lit		30	18	22	18	2.1	2.2		
Calcium as Ca ¹¹	mg/lit		6.4	3.2	4.0	4.8	4.8	5.6		
Magnesium as Mg ^{+r}	mg/lit	THE STATE OF THE S	3.4	2,4	2.9	1.5	2.0	1.0		
Sulphate as SO4	mg/lit		1	0.6	0.6		1.0	(1.4		
Phosphate as PO ₁	mg/lit	5	BDL	BDL	BDL	BDL	(),1	0.1		
Nitrate as NO3	mg/lit	10	BDL	BDL	BDL	BDI,	0.1	(),1		
B.O.D (3days, 27°C)	mg/lit	30	<3	<3	<3	<3	<.3	<3		
(.(),(),()	mg/lit	250	<10	<10	<10	< 1 ()	< (0			
Total Iron	mg/lit	3	BDL	BDL	BDL	BDL	31)1,	131)1.		
Manganese as Mn	mg/lit	2	BDL	BDL	BDI.	BDL.	BDL.	31)1.		
D.0	mg/lit		7	7	7.1	7		0.7		
Oil & Grease	mg/lit	10	<1	<1	<1	<1		1,1		

Note: No water discharge from SMBP & SBP Tailing Pond.

BDL- Below Detection Limit

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Govt. Analyst

Laboratory Incharge

M/s Sesa Environment Laboratory

Vedanta Limited ,Mining Division ,Codli Mines,P.O. Kirlapale ,Goa-403727

Recognised by Ministry of Environment, Forests and Climate change, Govt. of India Vide Notification .S.O.137(E). Dated 12th January 2015, Valid up to 11.01.2020 * Certified by ISO 9001:2008, ISO 14001 :2004 and OHSAS 18001:2007

Surface water Analysis Report for the month of June 2016

Mine Name: Surla Mine

Date of Sample collection: 24.06,2016

Standard method used for analysis: APHA Standard

Permissible limits - Applicable only for Mine Discharge

Date of Receipt of sample: 24.06.2016 Analysis completion date: 30.06.2016

	**************************************	Name and Associated States of the States of	30070-00-017077-00-04-050-07-0-04-05-07-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	WATER COMMENT TO COMME	Location		A service resource and service	
Parameter	Unit	Permissible limits	Nallah water- Bhillem	Sonshi Nallah Water- Entry to Mine	Sonshi Nallah water- Exit from Mine	Mine discharge to paddy fields		Downstream river Mandovi
				20	15	18	10	9
Colour	Hazen		14	5.91	5.86	6.03	6.31	3.36
oH		5.5 to 9.0	6.32	1.0	1.0	1.0	1.5	1.3
Curbidity	NTU		1.4	24.8	25.2	24.4	70.4	70.5
Dissolved Solids	mg/lit	14.40 FF 11	32.9	49.7	50.4	48.8	140.8	141
Conductivity	μS/cm		66	2	3	3	4	5
Suspended Solids	mg/lit	100	3	7.7	6.8	4.8	57.9	48.2
Chlorides	mg/lit		7.7	20.4	22.4	18.4	40.8	61.2
Total Hardness as CaCO3	mg/lit_		24.5	4.1	4,9	4.1	8.2	16.4
Calcium as Ca	mg/lit	4000	6.5	2.5	2.5	2.0	5.0	5.0
Magnesium as Mg ^{*+}	mg/lit		2.0		1.1	0.9	1.2	1.1
Sulphate as SO4	mg/lit		1	0.8	BDL	BDL	0.08	0.05
Phosphate as PO ₄	mg/lit	5	BDL	BDL		BDL	0.2	0.2
	mg/lit	10	0.18	BDL	0.1	<3	<3	<3
Nitrate as NO3	mg/lit	30	<3	<3	<3	<10	<10	<10
B.O.D (3days, 27°C)	mg/lit	250	<10	<10	<10	0.03	0.08	0.09
C.O.D	mg/lit	3	0.06	0.07	0.07		0.02	0.03
Total Iron	mg/lit	2	0.01	0.03	0.02	0.01	6	7
Manganese as Mn	mg/lit		6	1 6	5	1	LI	1.1
D.0 Oíl & Grease	mg/lit	10	Nil	<1	<u></u>	I.	L. A.	

Note :- No water discharge from SMBP tailing pond & SBP tailing Pond.

BDL-Below Detection Limit

Govt. Analyst

M/s Sesa Environment Laboratory

Vedanta Limited , Mining Division , Codli Mines, P.O. Kirlapale , Goa-403727

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Well Water Analysis Report

Mine Name: Surla Mine

Date of Sample collection: 24.06.2016

Standard method used for analysis: APHA Standard

Date of Receipt of sample: 24.06.2016

Analysis completion date: 30.06.2016

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Parameter	Unit	Permissible Limit	Mine Garage Well	Behind New Admin Office Well	Surla jetty Well	Surla Village Well	Khodgini Well
	Llogop	<5.0	<5	<5	<5	<5	<5
Colour	Hazen	6.5-8.5	5.89	6.02	6.15	6.58	6.18
pH		5	1.2	3.5	2.7	3.2	2.7
Turbidity	NTU	3	32	74	68	78	142
Conductivity	μs/cm	500	16	37	34	39	71
Dissolved Solids	mg/lit	500	2	2	2	2	2
Suspended Solids	mg/lit			14.5	11.6	6.8	7.7
Chloride	mg/lit	250	4.8	22.4	16.3	22.4	63.2
Total Hardness as CaCO3	mg/lit	200	16.3		4.1	5.7	17.1
Calcium as Ca++	mg/lit	75	3.2	6.5	1.5	2.0	5.0
Magnesium as mg++	mg/lit	30	2.0	1.5	6.1	5.1	6.3
Sulphate as SO4	mg/lit	200	2.3	3.5	0.1	0.1	0.1
Nitrate as NO3	mg/lit	. 45	0.1	0.1	10	31	2.1
Alkalinity	mg/lit	200	15	20		0.03	0.06
Iron as Fe	mg/lit	0.3	0.05	0.07	0.06	0.03	0.01
	mg/lit	0.1	0.01	0.01	0.03		10
Manganese as Mn MPN/100ml	100	Absent	6	10	6	6	3. 7

BDL- Below Detection Limit

Laboratory litcharge

M/s Sesa Environment Laboratory

Vedanta Limited , Mining Division , Codli Mines, P.O. Kirlapale , Goa-403727

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Well Water Analysis Report

Mine Name: Surla Mine

Date of Sample collection: 16.09.2016

Standard method used for analysis: APHA Standard

Test Report No: 161

Date of Receipt of sample: 16.09,2016 Analysis completion date: 21.09,2016

the profit of the second of th	1				Location		and the second s
l'arameter -	Unit	Permissible Limit	Mine Garage Well	Behind New Admin Office Well	Surla jetty Well	Surla Village Well	Khodgini Well
College	Hazen	<5.0	<5	<5	<5	<5	<5
oll Colour	13((2,01)	6,5-8,5	6,02	- 6.15	5.56	6.61	6.5
F	NTU	5	1.0	1.2	1.3	3.5	6.2
Turbidity	ps/cm	AND THE RESIDENCE OF THE PARTY	39	90	65	80	244
Conductivity Dissolved Solids	mg/lit	500	2.0	45	33	/[-()	122
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	mg/lit	A THE RESIDENCE OF THE PROPERTY OF THE PROPERT	2.	2	2	2	2
Suspended Solids	mg/lit	250	6	8.9	9.9	13.9	20.8
Chloride Total Hardness as CaCO3	mg/lit	200	1.6	36	14.	20	80
Shall be a septiment by the ability of a septiment	mg/lit	75	4.0	8.8	2.4	4.0	17.6
Calcium as Ca++	mg/lit	30	1.5	3.4	1.9	2.4	8.7
Magnesium as mg++	mg/lit	200	1.2	1.7	6.6	6.0	14.7
Sulphate as \$04	mg/lit	45	BDL	BDL	BDL	BDL.	0.1
Nitrate as NO3	mg/lit	200	16	48	1.6	30	127
Alkalinity	mg/lit	0.3	BDL	BDL	BDL.	BDL.	Nil
Iron as l'e	mg/lit	0.1	BDL	BDL	BDL	BDL.	131)1,
Manganese as Mu MPN/100ml	1115,/111	Absent	Absent	Absent	9.1	6	4

BDL- Below Detection Limit

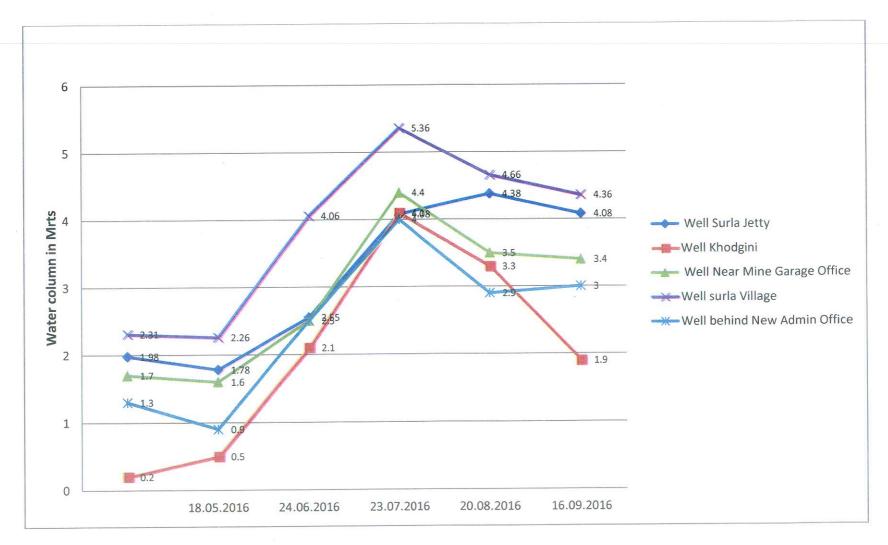
C. Land

Govt. Analyst

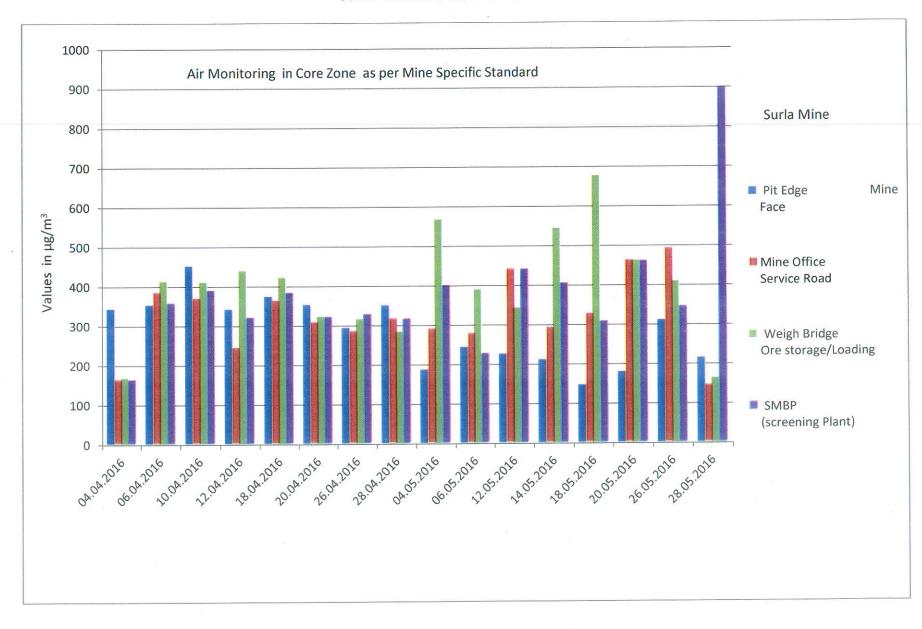
CALLERY STON

Labelatory Incharge

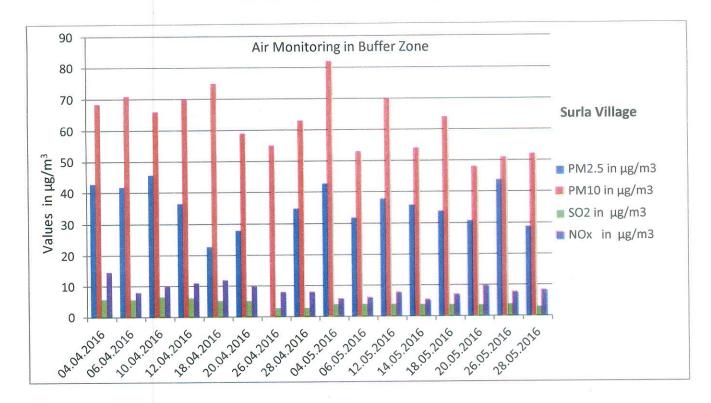
Well Level Water Report

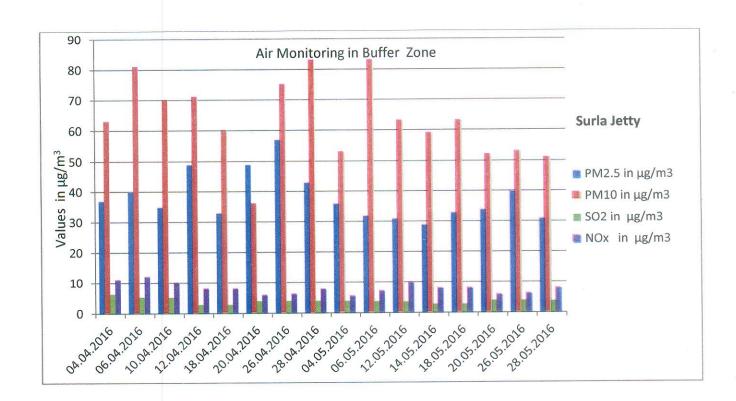


Ambient Air Quality Monitoring Report



Ambient Air Quality Monitoring Report





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