Combined Six Monthly EC Compliance Report

Period : April to September, 2018



Unchabali Iron & Mn Mines (4.0 MTPA) [&] Iron Ore Beneficiation Plant (2.0 MTPA)

Unchabali Iron & Mn Mines Smt. Indrani Patnaik

At/PO – Unchabali, Bamebari, Keonjhar, Odisha www.uimm-ip.com

Combined Six Monthly EC Compliance Reports

Of

- 1. Unchabali Iron & Mn. Mines
- 2. Iron Ore Beneficiation Plant of

Smt. Indrani Patnaik

For the Period

April to September 2018

INDRANI PATNAIK

(MINES OWNER) A/6, COMMERCIAL ESTATE, CIVIL TOWNSHIP, ROURKELA - 769 004 Phone: 0661-2400139, 2400014, FAX: 0661-2402226

REFERENCE NO: UIMM/IP/ENV/NOV/18/04

DATE: 30.11.2018

The Director (S) Eastern Regional Office, Ministry of Environment & Forest, Government of India, A-3 Chandrasekharpur, Bhubaneswar - 751 023

- : Submission of Environmental Clearance compliances stipulated in Subject approved EC for iron ore production of 4.00 MTPA and Iron Beneficiation Plant for 2.00 MTPA Capacity within lease area in respect of Unchabali Iron & Mn. Mines of Smt. Indrani Patnaik.
- 1. Ministry's Clearance letter no. J-110515/214/2008-IA.II (M), Reference: dated.23.07.2009 for 4.00 MTPA Iron ore Production. 2. Ministry's Clearance letter no. J-11015/273/2009-IA.II (M) dated on 31.05.2011 for Iron ore beneficiation plant with capacity of 2.00 MTPA.

Dear Sir,

To

With reference to the cited subject and reference Environmental Clearance letter numbers, we are here with submitting the combined six monthly environmental clearance compliance report (both in hard and soft copies as well as by e-mail) for 4.00 MTPA Iron ore production and 2.00 MTPA Iron Ore Beneficiation plant with comprehensive data analysis reports for the period April to September 2018 in respect of Unchabali Iron & Mn. Mines of Smt. Indrani Patnaik on the subject.

Kindly acknowledge the receipt of the same.

Thanking you.

Yours faithfully, For Unchabali Iron & Mn. Mines of Smt. Indrani Patnaik 11118

Mines Manager

UnchaEaclosed, Mn.: Mines As above & Compliance Copy

PS to APCCF (Central) GUI, NIO Envi. & Forests astern Regional corrice W.O. Boneikela, Joda, Dist. : Keonjhar - 758034, Ph. : 06767-273448, 272304, Fax : 06767-272304

INDRANI PATNAIK

(MINES OWNER)

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Mines Manager

Unchehelidsen & Mn. MinesAs above & Compliance Copy Indrani Patnaik Mahaparvat

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W.O. Boneikela, Joda, Dist. : Keonjhar - 758034, Ph. : 06767-273448, 272304, Fax : 06767-272304

Compliance Status for stipulated as Specific conditions in approved Environmental Clearances for 4.00 MTPA iron ore production and 2.00 MTPA Iron Ore beneficiation plant established with in ML area in respect of "Unchabali Iron and Manganese Ore Mines of Smt. Indrani Patnaik" located in village(s) Unchabali & Balda, Sub-division Champua, District Keonjhar, Odisha

SP. Cond. NO.	SPECIFIC CONDITION	PRESENT STATUS
I. II.(B.P)	The project proponent shall obtain Consent to Establish and Consent to Operate from the State Pollution Control Board, Orissa and effectively implement all the conditions stipulated therein.	As per requirement, the project has been obtained Consent to establish & Consent to Operate from SPCB, Orissa for 4.00 MTPA Iron ore production & 2.00 MTPA capacity of Iron ore beneficiation plant. The obtained Consent to Operate includes two numbers of 200 TPH mobile crusher plant, two numbers of 150 TPH mobile crusher plant, three numbers of 250 TPH mobile screen plant and one number of Iron ore beneficiation plant with capacity of 2.00 MTPA feed materials. The compliance to the conditions stipulated in the approved consent to establish & consent to operate has been implemented effectively. The latest consent to operate compliance report has been submitted to SPCB, Orissa for the year 2017-2018, and the same is enclosed as Annexure-1.
II. I(B.P)	Necessary forestry clearance under the Forest (Conservation) Act, 1980 for an area of 103.432ha forestland involved in the project shall be obtained before starting mining operation in that areas. Till such time mining activities shall be restricted to an area of 67.16haof forestland for which approval under section-2 of the forest (Conservation) Act, 1980 was granted by the Ministry of Environment and Forests on 03.05.2007. Environmental Clearance is subject to grant of forestry clearance. No mining shall be undertaken in the forest area without obtaining requisite prior forestry clearance. No activity relating to the project	As per condition, the forest clearance has been obtained from MoEF for an area of 103.432 Ha in two phases under the Forest (Conservation) Act, 1980. First phase forest clearance was obtained on 03.05.2007 for an area of 35.275 Ha., vide MoEF letter no: 8 (21)40/2004-FCE dated 03.05.2007 and second phases forest clearance has been obtained on 31.09.2015 over an area of 68.157 Ha., vide MoEF& CC letter no F.NO.8-67/2014-FC dated on 31.09.2015. The copy of the forest clearances obtained from MoEF& CC is attached as Annexure -2 (First phase for 35.275 Ha) & Annexure -3 (Second phase for 68.157 Ha).

	District Keonjh	ar, onssa.
	shall be undertaken in the	
	forestland for which forestry	
	clearance under the forest	
	(conservation) Act, 1980 has not	
	been obtained. The environmental	
	clearance is subject to grant of	
	forestry clearance.	
III.	The environmental clearance is	There is no agricultural land within in the
	subject to approval of the State	mine lease area. Therefore, the said
	Land use Department, Government	diversion from state land use department is
	of Orissa for diversion of	not applicable.
	agricultural land for Non-	
	agricultural use.	
IV.	The mining operations shall be	The present mining operation is restricted to
	restricted to above ground water	above the ground water table and there is no
	table and it should not intersect	proposal to intersect the ground water table
	groundwater table. In case of	as per the approved Scheme of Mining.
	working below the ground water	The Project has carried out detailed
	table, prior approval of the	hydrology and hydro geological study
	Ministry of Environment & Forests	through and as per hydrology study report
	and Central Ground Water	the ground water table exists at 478 aMSL
	Authority shall be obtained, for	and present mine working operation is at
	which a detailed hydrological	530 aMSL.
	study shall be carried out.	In case of ground water table intersection in
		future, the project will abide the said
		condition and will get prior approval from
		MoEF& CGWA.
V.	The project proponent shall ensure	No water course and / or water resources
XIII.	that no natural watercourse	are being obstructed due to our mining
(B.P)	and/or water resources shall be	operation. To ensure the same project has
	obstructed due to any mining	been under taken runoff management study
	operations. Adequate measures	and prepared site specific runoff
	shall be taken for conservation	management plan through KRG Rain Water
	and protection of the seasonal	Foundation, Chennai. Under the site specific
	streams, if any emanating from	runoff management plant, project has under
	the mine lease area during the	taken various mitigate measure in and
	course of mining operation.	around the mine lease area.
	Appropriate mitigate measures	
	should be taken to prevent	Mines runoff management during
	pollution of the Baitarani river, in	monsoon period:
	consultation with the State	The mines runoff water is not allowed for
	Pollution Control Board.	direct discharge from mine lease area.
	over over over all	and a solution of the second destination of the second destination of the second secon

District Keonjhar, Orissa.	
	Hence, the entire generation of mines runoff
	water (during monsoon period) is collected to
	the bottom of the pit, checks dams and
	check weirs and after treatment through silt
	cum Sedimentation by giving adequate
	retention period, the final water is allowed to
	discharge. However, the entire mine area
	and check dams/check weirs connectivity is
	properly made by proper drainage pattern.
	property made by proper dramage pattern.
	All the implementations have been carried
	out with consideration of maximum rain fall
	and technical design followed as per KRG
	rain water harvesting recommendation. The
	detailed implementation of check dams and
	check weirs is given in table -1 .
	check wents is given in casic -1.
	Nallah Protections measures:
	In addition to the site specific mitigation
	measures, the project has been carried
	out various Nallah protection measures
	around the mines premises. The
	implementations are follows.
	✓ Nallah banks are protected by Guard
	wall with proper filtration
	arrangements to avoid entry of the
	any silt carry over to the water bodies
	during rainy season from other
	sources.
	✓ Check weirs/check dams are
	conferred along the Nallah passing
	area to persuade silt sedimentations.
	\checkmark Nallah de-siltation is under taken
	during pre-monsoon period to
	maintain its bio cycle.
	✓ Nallah both side slopes are pitched
	with loose boulders to avoid the
	with loose bounders to avoid the

District Keonjha	ar, Orissa.
	period.
	Plantation and Vettiver plantation was carried out all along the Nallah boundaries and few areas is converted as green barriers. The detailed implementation is given in table -2 and photo evidence for the same is given below.
	Water Harvesting:
	The project has constructed/ developed four numbers of water harvesting ponds in surrounding villages to encourage the water table. The ponds are regularly de-silted and well maintained on regular basis. The detailed implementation is given in table -3 .
	Dump Management:
	 Dump Preparation: Proper terracing, slope level and sub benches are maintained in all mines waste / sub grade dump. Retention wall: Bottom of the OB dump and sub grade dump provided / constructed with adequate size of retention wall to avoid the dump failure during monsoon period. Drainage Pattern: Proper drainage pattern is provided at bottom of the waste / sub grade dumps and other required area to collect & treat the mines runoff water. Coir-mat and plantation: Surface area of the waste / sub grade dump is covered with plantation / coir geo textile application along with local grass seeds to avoid the dump erosion during monsoon period. The detailed implementation is given in Table - 4.
	Photo evidence is given below as PHOTOS-1.

	District Keonjh	
VI.	The top soil, if shall temporarily	No top soil was generated during this
	be stored at earmarked site(s) only	reporting period, because the current mining
	and should not be kept unutilized	operation is restricted within the already
	for long, the topsoil should be	diverted forest area and there is no new
	used for land reclamation and	development in the reporting period. In case
	plantation.	of top soil generation taken place in the
		future, it will be stored inane earmarked
		area and necessary safeguard measures will
		be under taken to preserve its nutrients
		values, so that it will be used for future land
		reclamation and raising of plantations.
VII.	The project proponent shall not	In this regard project has been obtained
	undertake beneficiating of the	Environment clearance from Ministry of
	mineral as part of this project. For	Environment & Forest, Government of India
	understanding beneficiation,	vide letter no. J-11015/273/2009-IA.II (M)
	necessary prior approval under the	dated 31.05.2011 for setting up iron ore
	provisions of EIA Notification,	beneficiation plant for capacity of 2.0 MTPA
	2006 shall be obtained.	(2 x 185 TPH). A copy of the Environmental
		Clearance obtained from MoEF for
		undertaking beneficiation within lease area
		is enclosed as Annexure – 4.
VIII.	The over burden (OB) generated	The generated over burden and / waste is
	during the mining operation shall	stacked at earmarked dump site as per
	be temporarily stacked at	approved mining plan and no back filling
	earmarked dump site(s) only for	and reclamation is being under taken till
	back filling. Back filling shall	date. As per approved Scheme of Mining, the
	commence from the year 2011-	backfilling will commence from 2019-2020
	2012 onwards. The accumulated	onwards. So, reclamation will be carried out
	waste shall be liquidated by the	after 2019-2020 as per the approved Scheme
	year 2016 and there shall be no	of Mining approved by Indian Bureau of
	external dump thereafter. The	Mines, Govt. of India.
	back filled area shall be reclaimed	However, the existing O.B dump is preserved
	by plantation. Monitoring and	
	management of rehabilitated areas	reclamation. Such as like proper dozing,
	shall continue until vegetation	
	becomes self-sustaining.	Plantation.
	Compliance status should be	
	submitted to the Ministry of	
	Environment & Forests and its	
	Regional office, Bhubaneswar on	
	six monthly basis.	

IX. Catch drains and siltation ponds should be of appropriate size constructed around the mine working soil. mineral and temporary OB dumps to prevent runoff water and flow of sediments directly into the Baitarani river, the Jalpanadi, the Kasinallah, the Dolkonallah, Dalkinallah, the Ghaghara nallah, the Jagdharanadi, the Gahirjalanallah, the Mithida spring and other water bodies. The water so collected should be utilized for watering the mine area, roads, green belt development etc. The drains shall be regularly de – silted particularly after monsoon and maintained properly. Garland drains, settling tanks and check dams of appropriate size, gradient and length shall be constructed both around the mine pit and the temporary OB dumps to prevent runoff water and flow of sediments directly into the Baitarani river, the Jalpanadi, the Kasinallah, the Dolkonallah, Dalkinallah, the Ghagaranallah, the Jagdharanadi, the Gahirjalanallah, the Mithida spring and other water bodies and dump capacity should be designed keeping 50% safety margin over and above peak sudden rainfall (based on 50 years data) and maximum discharge in the area adjoining the mine site. Dump provide capacity should also adequate retention period to allow proper settling of silt material. Sedimentation pits should be constructed at the corners of the

The project has under taken varies Mitigative measures on the above. The detailed implementation is follows.

Dump Management:

Dump Preparation: Proper terracing, slope level and sub benches are maintained in all mines waste / sub grade dump.

Retention wall: Bottom of the OB dump and sub grade dump provided / constructed with adequate size of retention wall to avoid the dump failure during monsoon period.

Drainage Pattern: Proper drainage pattern is provided at bottom of the waste / sub grade dumps and other required area to collect & treat the mines runoff water.

Coir-mat and plantation: Surface area of the waste /sub grade dump is covered with plantation / coir geo textile application along with local grass seeds to avoid the dump erosion during monsoon period.

<u>Mines runoff management during</u> monsoon period:

The mines runoff water is not allowed to direct discharge from mine lease area. Hence, the entire generation mines runoff water (during monsoon period) is collected to the bottom of the mines pit, checks dams and check weirs and after treatment (Silt Sedimentation by giving adequate retention period) process the final water is allowed to discharge. However, the entire mine area and check dams/check weirs connectivity is properly made by preplanned drainage pattern.

All the implementations have been carried out with consideration of maximum rain fall and technical design is followed as per KRG rain water harvesting recommendation.

District Keonjh	
garland drains and de - silted at	Nallah Protections measures:
regular intervals.	
	In addition to the site specific mitigation measures, the project has been carried out various Nallah protection measures around the mines premises. The implementations are follows.
	✓ Nallah banks are protected by Guard wall with proper filtration arrangements to avoid entry of the any silt carry over to the water bodies during rainy season from other sources.
	✓ Check weirs/check dams are conferred along the Nallah passing area to persuade silt sedimentations.
	 ✓ Nallah de-siltation is under taken during pre-monsoon period to maintain its bio cycle.
	 ✓ Nallah both side slopes are pitched with loose boulders to avoid the barrier erosion during monsoon period.
	✓ Plantation and Vettiver plantation was carried out all along the Nallah boundaries and few areas is converted as green barriers.
	Water Harvesting:
	The project have been constructed/ developed four numbers of water harvesting ponds in surrounding villages to encourage the water table. The ponds are regularly de- silted and well maintained on regular.

	District Keonjhar, Orissa.	
Х.	Dimension of the retaining wall at	
	the toe of the temporary over	the length of 210 RM x 2 Mtr (H) x 1.5 Mtr
	burden dumps and OB benches	(W) has been constructed at varies location
	within the mine to check run-off	like bottom of the OB dump, sub grade
	and siltation should be based on	dump & other required area to check the
	the rain fall data.	runoff.
		PHOTOS ARE ATTACHED BELOW AS
		РНОТО-2
XI.	Plantation shall be raised in an	As per condition, the plantation will be
VII	area of 98.8627ha including a 7.5	raised for an area of 98.8627 Ha after
(B.P)	m green belt in the safety zone	completion of the mines life / end of the
	around the mining lease, back	mine operation in mine lease, back filled
	filled and reclaimed area, mine	area and reclaimed area, mine benches,
	benches, along the roads etc. by	along the roads etc. However, during
	planting the native species in	running mine operation project has carried
	consultation with the local DFO /	Plantation at various location like safety
	Agriculture Department. The	zone, waste dump, mines plant area, mines
	density of the trees should be	haul road, village roads, villages schools and
	around 2500 plants per hectare.	railway sidings in consultation with the local
	A green belt of adequate width	DFO.
	shall be developed all around the	Till reporting period a total number of 89053
	plant by planting the native	numbers of saplings has been planted and
	species in consultation with the	the survival rate is 69 %, on an average of
	local DFO/Agriculture department	_
	within first five years.	period. A comprised year wise plantation
	······································	details are enclosed as TABLE5A and type
		of plants planted in the year was given in the
		TABLE- 5B . Photo evidence for the
		plantation inside and out lease area is given
		below.
		PHOTOS ARE GIVEN BELOW AS PHOTOS-3
XII.	Effective safe guard measures such	The project has implemented different type
IV, VI	as regular water sprinkling should	of dust suppression system to arrest the air
& VII	be carried out in critical areas	pollution from the source level in and
(B.P)	prone to air pollution and having	around the mines premises.
(2.1)	high levels of SPM and RSPM such	The detailed implementations are follows.
	as haul road, loading and	\checkmark Fixed type water sprinklers are
	unloading point and transfer	implemented in mines permanent
	points. It shall be ensured that the	haul roads and dispatch roads.
	Ambient Air Quality parameters	naui ioaus anu uispaten ioaus.
	conform to the norms prescribed	V Mines henches tomporary have reade
	-	✓ Mines benches, temporary haul roads
	by the Central Pollution Control	and other processing areas dust

Board in this regard.

The Project Proponent shall carry out conditioning of the ore with water to mitigate fugitive dust emission.

Necessary safeguard measures shall be taken for effective control of particulate levels (PM10) in the area. The safeguard measures shall be implemented within first three months and their effectiveness shown with supporting data of actual air quality monitoring.

- generation is suppressed by use of mobile water tankers. In this regard project has engaged two no. of 25 KL mobile water tanker, which is inbuilt with high pressure hydraulic sprinkling system.
- ✓ Five numbers of 8 KL capacity mobile water tankers is being used for dust suppression in the Public roads, railway sidings approaching roads & railway yards.
- ✓ Portable type trolley mounted sprinkler has been placed in loading & unloading points to avoid the dust generations.

Haulage roads are being maintained with grader and water sprinkling to avoid any sort of ruts and potholes. Detailed implementation is given in **table – 6**.

DUST SUPPRESSION IN CRUSHER & SCREEN PLANT:

Effective dry fog system is implemented in all the crusher and screen plants. Beneficiation plant, the entire process is in wet condition except hopper area and the hopper is provided with dry fog to avoid the dust generation. To avoid the flow of air born dust from convey belt movement the conveyor belts of crusher and screen Plants are covered with hoods.

MONITORING

The monitoring of AAQ is being done in the core as well as buffer zone of the ML area, there are 2 no. of monitoring station in core zone i.e. Mines Office and Eastern Site of ML Area and there are 5 no. of monitoring stations in the buffer zone such as Unchabali Village, Balda

vi A m fo	illage, Nayagarh Village, Pid-Pukhari illage and Jalahari village. Monitoring of AQ is carried out every month except nonsoon season. The monitoring report
Pi nu by m po	or the period April to September 2018 eveals that the parameter like PM10, M2.5, SO2 and NOx are well within the orms as per NAAQs notifications made y the CPCB. A comprised AAQ nonitoring reports for the reporting eriod is enclosed as TABLE7 . TOS ARE GIVEN BELOW AS PHOTOS-4
XIII. Regular monitoring of the flow Regu	lar monitoring of flow rate of different
rate of the springs and perennial water	r bodies is being carried out seasonally
	overing the Nallah/rivers i.e. Baitarani
	r, Unchabali Nallah, Kashi Nallah, Jalpa
	ah, Gahirajala Nallah, Dolko Nallah
	lki Nallah. Latest flow rate monitoring
	rts are enclosed as TABLE-8. itoring of water quality of Baitarini
	r, Unchabali Nallah, Kasi Nallah, Jalpa
	ah, Gahirjala Nallah, Mithida Spring and
	o Nallah is being carried out seasonally.
of the Kasinallah, the Dolkonallah, The	monitoring data covers a total of 41
the Dalkinallah, the Ghagranallah, para	meters and results are very well within
	norms. The data is being maintained and
	nitted to authorities regularly. Latest
	ace water quality report analysed during
	monsoon is enclosed as TABLE9.
submitted to Ministry of Environment and Forest, its	
Regional Office, Bhubaneswar, the	
Central Ground Water Authority,	
the Regional Director, the Central	
Ground Water Board, the State	
Pollution Control Board and	
Central Pollution Control Board.	
	is regard project has been engaged KRG
-	WATER FOUNDATION, CHENNAI in
	ultation with Regional Director, CGWB
resourcesintheareainconsultationwiththeRegionaland	Bhubaneswar for technical guidelines implemented various conservation

		District Keonjh	*
	Director, Central	Ground Water	3
	Board.		resources for in and around the mine lease
			area. The detail for the same is as follows;
			ROOFTOP RAINWATER HARVESTING:
			Rooftop rain water harvesting system has
			been implemented at mines employee camp
			and Unchabali dispensary towards water
			augment. The technical design and other
			parameters are followed as recommended by
			KRG rain water harvesting with consultation
			of regional director, CGWB, Bhubaneswar.
			From this establishment 4200
			CUM/ANNUAL water is recharged to the
			ground.
			The project has developed/ constructed four
			numbers of water harvesting ponds to in
			mines surrounding villages to encourage
			water augment. The ponds are regularly de-
			silted and well maintained. Total harvesting
			pond water holding capacity is 1.5 Lakh
			CUM/ANNUM. The details are given in
			TABLE3.
			SETTLING CUM PERCOLATION POND &
			CHECK DAMS:
			CHECK DAMS: Based on hydrology study the project has
			CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams
			CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate
			CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is
			CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by
			CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details
			CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details are given in TABLE.NO1 .
			CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details
XVI.	Regular monitoring	g of ground	CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details are given in TABLE.NO1. The photo evidences are attached as PHOTOS-5
XVI. X	Regular monitoring water level and qua	• •	CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details are given in TABLE.NO1. The photo evidences are attached as PHOTOS-5
x	water level and qua	ality should be	CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details are given in TABLE.NO1. The photo evidences are attached as PHOTOS-5
	water level and qua carried out in arou	ality should be und the mine	CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details are given in TABLE.NO1. The photo evidences are attached as PHOTOS-5 - GROUND WATER QUALITY:
x	water level and qua carried out in arou lease by establishing	ality should be und the mine ng a network	CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details are given in TABLE.NO1. The photo evidences are attached as PHOTOS-5 - GROUND WATER QUALITY: Ground water quality is being monitored
x	water level and qua carried out in arou lease by establishin existing wells and	ality should be und the mine ng a network installing new	CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details are given in TABLE.NO1. The photo evidences are attached as PHOTOS-5 - GROUND WATER QUALITY: Ground water quality is being monitored regularly by seasonally at 10 locations
x	water level and qua carried out in arou lease by establishin existing wells and piezometers during	ality should be und the mine ng a network installing new g the mining	CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details are given in TABLE.NO1. The photo evidences are attached as PHOTOS-5 - GROUND WATER QUALITY: Ground water quality is being monitored regularly by seasonally at 10 locations including core and buffer zone. The
x	water level and qua carried out in arou lease by establishin existing wells and	ality should be und the mine ng a network installing new g the mining e periodic	CHECK DAMS: Based on hydrology study the project has implemented five number of the check dams where soil is having high percolation rate and one number of percolation pond is provided at the south side ML area by considering the water flow. The same details are given in TABLE.NO1. The photo evidences are attached as PHOTOS-5 - GROUND WATER QUALITY: Ground water quality is being monitored regularly by seasonally at 10 locations including core and buffer zone. The monitoring locations are namely 1) Inside

	District Keonjh	
	a year Pre –monsoon (April-May),	Village, 6) Siljora Village, 7) Nayagarh
	Monsoon (August), Post monsoon	Village, 8) Basanthapur Village, 9)
	(November) and Winter (January);	Employee's camp & 10) Jaganathpur. The
	once in each season)] shall be	latest ground water quality report is
	carried out in consultation with	enclosed as Table-10.
	the state Ground Water	- GROUND WATER LEVEL:
	Board/Central Ground Water	
	Authority and the data thus	The ground water level is being monitored by
	collected may be sent regularly to	seasonally i.e. pre-monsoon, monsoon, post
	Ministry of Environment and	monsoon and winter. The latest ground
	Forests and its Regional Office,	water level report is given in table-11 .
	Bhubaneswar, Central Ground	- INSTALLING NEW PIEZOMETER:
	Water Authority and Regional	The project has installed Piezometers at
	Director, Central Ground Water	mines observation bore wells. The ground
	Board. If at any stage, it is	water fluctuations are being observed in the
	observed that the ground water	bore well & results are recorded by regular
	table is getting depleted due to the	intervals. The latest month piezometer
	mining activity; necessary	observation data is given as annexure -5 .
	corrective measures shall be	
	carried out.	
XVII.	Appropriate mitigate measures	Site specific mitigation measures to prevent
	should be taken to prevent	silt carried into nearby natural water bodies
	pollution of the Baitrani river, the	got implemented like; surface run off
	Jalpanadi and Jagdharanadi in	management structures, retaining wall
	consultation with the State	followed garland drains, check dam, settling
	Pollution Control Board.	cum percolation ponds etc. Apart from that,
		guard wall have been constructed across the
		bank of the natural water bodies. The above
		structures got developed in consultation
		with SPCB, Orissa. The detailed Site
		implementation details are given in
		TABLE.NO1, 2, 3 & 4.
XVIII.	The project proponent shall obtain	The project has obtained the ground water
XI	prior permission of the competent	NOC from Central Ground Water Authority
(B.P)	Authorities for drawl of requisite	vide letter No.21-4(88YSER/GGWA/2008-
	quantity of water (surface water	1903 for withdrawal quantity of 1175
	and ground water) required for the	CUM/D of ground water. The obtained NOC
37737	project.	from CGWA is enclosed as ANNEXURE – 6 .
XIX.	Suitable rainwater harvesting	- ROOFTOP RAINWATER HARVESTING:
XII	measures on long term basis shall	The project has been implemented rooftop
(B.P)	be planned and implemented in	rain water harvesting system at project
	consultation with Regional	indici indicotang ofotom at project

_	· · · · · · · · · · · · · · · · · · ·
Board. toward	byee's camp and Unchabali dispensary
	ds ground water re-charge. The
	ical design and other parameters are
follow	red as recommended by KRG rain water
harve	sting with consultation of regional
direct	tor, CGWB, Bhubaneswar. From this
estab	lishment 4200 CUM quantity of ground
water	is recharged to the ground water table
every	year.
- W	ATER HARVESTING PONDS AT
V	ILLAGES:
The	project has developed four numbers of
	harvesting ponds to encourage the
	percolation and water harvesting in
	unding villages. The ponds are
Ŭ	arly de-silted and well maintained.
	harvesting pond water holding capacity
	.5 lakh CUM/ANNUM. Details of
	sting ponds developed in surrounding
	es are given in TABLE NO3.
- Pl	ERCOLATION POND & CHECK DAMS:
Based	d on hydrology study the project has
	mented five number of the check dams,
	ng cum percolation pits where soil is
	g highly percolating rate and one
	per of percolation pond is provided at
	buth side of the broken up area. Details
	eck dams and check weirs are follows
	BLE NO1.
	project is ensuring vehicle emission
_	toring for all mining and other
	orting vehicles / equipment. The
	toring of vehicle emission is carried out
used in mining operations and in throu	gh Diesel Smoke Meter by engage of
transportation of mineral. The THRI	VENI Pollution Testing Centre,
	abali Village, Keonjhar, Pin-758034.A
mineral transportation shall be Unch	le HEMM emission test result is
-	TE TIEMINI CHIISSION LEST TESUIT IS
carried out through the covered samp	hed as Annexure-7.
carried out through the coveredsamptrucks only and vehicles carryingattact	
carried out through the coveredsamptrucks only and vehicles carryingattactthe mineral shall not beApart	hed as Annexure-7.

District Keonjh	
shall be carried out after the	system in entry gate of the mines, this
sunset.	system is having automatic functions to read
	the status of the vehicle pollution certificate
	validity and other relevant parameters.
	Basically, the baseline data of the vehicle is
	being loaded in the initial entry of the vehicle
	to the mines and it is regularly monitored in
	every trip of entry in gate, if any vehicles are
	not having valid pollution certificate or any
	other parameters then automatically entry of
	the vehicle will be not allowed by system.
XXI. No blasting shall be carried out	No blasting is carried out after the sunset
after the sunset. Blasting	and blasting is carried out only at day time.
operation shall be carried out only	The control blasting is practiced using lager
-	
	top stemming column, the Nonel technology
blasting shall be practiced. The mitigate measures for control of	and proper blast design& firing pattern with effective supervision of total blasting
-	
ground vibrations and to arrest fly	operations as per the recommendation of the
rocks and boulders should be	CIMFR, DHANDBAD.
implemented.	As on date no records reveals beyond the
	permissible limit during the reporting period.
	A summarized report for the reporting period
	is enclosed as TABLE NO12 and a sample
	report is enclosed as ANNEXURE -8.
XXII. Drills shall either be operated with	The drilling operation is being carried out
dust extractors or equipped with	with both dust extractor and water injection
water injection system.	system. Presently the project is using DP
	1100 drilling machine for drilling operation.
	The said drilling machine is inbuilt with
	both water injection system and dust
	extraction systems. The photo evidence for
	the same is given below.
	PHOTO evidences given below as PHOTOS-6
XXIII. Mineral handling plant should be	1) Effective dry fog system is implemented in
provided with adequate number of	all the crusher and screen plants.
high efficiency dust extraction	2) In Beneficiation plant, the entire process
system. Loading and unloading	is in wet condition except hopper area and
areas including all the transfer	the hopper is provided with dry fog to avoid
points should also have efficient	the dust generation.
dust control arrangements. These	3) The conveyor belts of crusher and screen
should be properly maintained and	Dianta and correspond with hands
should be properly maintained and	Plants are covered with hoods.

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		the loading and unloading area.
XXIV.	Sewage treatment plant should be	STP is provided / implemented along with
	installed for the colony. ETP	the skimmer mechanism at mines
	should also be provided for	employee's camp for treatment and reuse of
	workshop and waste water	the waste domestic water from Kitchen,
	generated during mining	toilet and etc. The treated water is used for
	operation.	plantation and dust suppression activities.
		ETP is provided at mines work shop for the
		treatment of waste water from water service
		of equipment. The existing ETP is having
		physical separation of oil and grease by oil
		trapping system and silt sedimentation pit.
		The both STP and ETP final discharge water
		is being monitored on fortnightly once to
		ensure the final discharge water in line to
		approved CTO and record maintained for the
		same. The latest monitoring report is
		enclosed here as table. No - 13 and table.
		No 14.
		Photo evidences given below as PHOTOS-7
XXV.	Pre-placement medical	Initial Medical Examination & Periodical
XIV	examination and periodical	Medical Examination is being carried out to
(B.P)	medical examination of the	all company & contractors employees on
	workers engaged in the project	regular basis. The IME & MPE is being
	shall be carried out and records	carried as per in compliance to Mines Act
	maintained. For the purpose,	1952 & rules 1956 and amendments there
	schedule of health examination of	to.
	the workers should be drawn and	During the reporting period (April to
	followed accordingly.	September 2018) project has carried out IME
		& PME for 27 employees. The IME & PME
		tests include PFT, X-Ray, and lung
		spirometer etc. A comprised summery report
		for IME & MPE during report period is
		enclosed as Annexure – 09.
XXVI.	The project proponent shall take	The Site Specific Wildlife Conservation Plan
XVII	all precautionary measures during	got prepared by Sri. S. K. Pattnaik, Retd. IFS
(B.P)	mining operation for conservation	& Shri S.K.Mohanty, Retd. OFS with an
	and protection of endangered	estimated cost of Rs. 104 lakh and approved
	fauna namely elephant, sloth bear,	by PCCF-Wild Life and Chief Wild Life
	etc. spotted in the study area.	Warden. In which Rs. 34 lakh has been
	Action plan for conservation of	earmarked for implementation of Site

	District Keonjn	
	flora and fauna shall be prepared	Specific Wild Life Conservation Plan within
	and implemented in consultation	the Mining Lease area and Rs. 70 Lakh has
	with the State Forest and Wildlife	been earmarked for implementation for the
	Department. All the safeguard	purpose in the buffer zone i.e. within the
	measures brought out in the wild	zone of influence. An amount of Rs. 15, 91,
	life conservation plan prepared	691/- rupees has been made towards
	specific to this project site shall	Regional Wild Life Management Plan and Rs.
	be effectively implemented.	21, 75, 000/- rupees towards site specific
	Necessary allocation of the funds	Wild Life Management Plan.
	for implementation of the	Various activities has been under taken
	conservation plan shall be made	towards protection of wild animals by
	and funds so allocated shall be	implementation of solar electric fencing in
	included in the project cost. A	mines operation boundary area to avoid the
	copy of action plan may be	fall down of any wild animals to mines
	submitted to the Regional Office	operation, awareness program among local
	of the Ministry of Environment	and staffs members etc. The approved
	and Forests, Bhubaneswar.	budgetary forecast for the site specific
		wildlife conservation plan is enclosed as
		Annexure – 10.
XXVII.	Provision shall be made for the	Not Applicable. As there is no such
XVI	housing of the construction labour	construction activity
(B.P)	within the site with all necessary	·
	infrastructure and facilities such	
	as fuel for cooking, mobile toilets,	
	mobile STP, safe drinking water,	
	medical health care, crèche etc.	
	The housing may be in the form of	
	temporary structures to be	
	removed after the completion of	
	the project.	
XXVIII	The critical parameters such as	All these critical parameters are being
	SPM, RSPM, NOx in the ambient	monitored periodically & uploaded on the
	air within the impact zone, peak	company website i.e. www.uimm-ip.com.
	particle velocity at 300m distance	The said monitored parameters i.e. for AAQ;
	or within the nearest habitation,	PM10, PM2.5, SO2, NOx, STP, ETP
	whichever is closer shall be	discharge, for surface run off discharge from
	monitored periodically. Further,	the mine (treated) etc. is being displayed
	avality of discharge water shall	through an Electronic display board
	quality of discharge water shall	
	also be monitored [TDS, DO, pH	installed at the main gate of the project site
	also be monitored [TDS, DO, pH	installed at the main gate of the project site

	District Keonjhar, Orissa.					
	uploaded on the website of the	company website are enclosed as Annexure				
	company as well as displayed on a	- 11 and photo of the display board is given				
	display board at the project site at	below AS PHOTO-8.				
	a suitable location near the main					
	gate of the company in public					
	domain. The circular no. J-					
	20012/1/2006-IA.II (M) dated					
	27.05.2009 issued by Ministry of					
	Environment and Forests, which is					
	available on the website of the					
	Ministry www.envfor.nic.in shall					
	also be referred in this regard for					
	its compliance.					
XXIX.	A Final Mine Closure Plan along	The Project has submitted a Bank guarantee				
	with details of Corpus Fund should	of Rs. 17,43,693/-for reclamation and				
	be submitted to the Ministry of	rehabilitation of 69.7477 Ha mined out and				
	Environment & Forests 5 years in	other allied activities area @ 25, 000/- Ha as				
	advance of final mine closure for	a part of the management of the mines				
	approval.	closure of the Project.				
		Ĵ				
III.(B.	The water recovery and spill way	The existing beneficiation plant is well				
P)	system shall be so designed that	designed with principle of the maximum				
	the natural water resources are	water recovery and zero spills called zero				
	not affected and that no spill	discharge based Beneficiation plant. In				
	water goes into the nearby rivers.	consequence of that, the plant entire water				
		circuit is developed by closed manner, and				
		process water from all the consuming point				
		is being collected to thickener by proper pipe				
		line arrangement. However, with use of				
		thickener process and filter press				
		mechanism about 97% of the water is being				
		recovered and reused for the plant				
		operation.				
v	The cake generated from the filter	The generation of filter press waste i.e. filter				
(B.P)	press shall be dumped initially for	cake is being dumped along with overburden				
(=)	two years along with the	dump as inter mixed layers. As per latest				
	overburden as inter mixed layers	approved mining scheme the period of				
	and thereafter shall be filled back	reclamation is occurring on the year of				
	into the mined out area.	2019-2020, the backfilling of filter press				
	Compliance status shall be	waste along with overburden will be carried				
	submitted to the ministry of	out during above said period. Regarding				
	Sasimittea to the ministry UI	out during above said period. Regarding				

	environment & forest and its	compliance status, we will follow the said			
	regional office located at	condition for submission of compliance			
	Bhubaneswar on six monthly	report to MoEF& Regional office located at			
	bases.	Bhubaneswar.			
XV	Occupational health surveillance	Workers engaged in Operations are provided			
(B.P)	program of the workers shall be	with earplugs / muffs, besides this acoustic			
	undertaken periodically to observe	enclosure for all machine operating cabins			
	any contractions due to exposure	are provided. It is being monitored by Noise			
	to the dust and take corrective	Level Meter; the results reveals very well			
	measures, if needed; health	within norms.			
	records of the workers shall be	Initial Medical Examination & Periodical			
	maintained.	Medical Examination is being carried out to			
		all company & contractors employees on			
		regular basis. The IME & MPE is being			
		carried as per in compliance to Mines Act			
		1952 &rules 1956 and amendments there			
		to. During the reporting period (April 2018 to			
		September 2018) project has carried out IME			
		&PME for 27 employees. The IME & PME			
		tests include PFT, X-Ray, and lung			
		spirometer etc. A comprised summery report			
		for IME & MPE during report period is			
		enclosed as Annexure – 09.			
L	1				

General Cond.	General condition		F	Present S	Status	
No						
I.	No change in mining technology and scope of working should be made without prior approval of the Ministry of Environment & Forest.	mechan combina Ore and	ized h ations and	naving 1 sorting g followe	shovels, and sizin	ect is fully dumper g of the Iron he approved
I (B.P).	No further expansion or modifications in the plant shall be carried out without prior approval of the ministry of Environment and Forests.	Scheme	OI MIIIIII	g/ F1a11.		
II.	No change in the calendar plan including excavation, quantum of			-		ar plan, the ron ore and
	mineral iron ore and waste should		-			he approved
	be made.		0	-	-	the iron ore
			te are as			
		Year	Mines (in Mt.)	Benei ciatio n	OB Remov ed	Total (in Mt.)
				(In Mt.)		
		2017- 2018	39906 62	0	420469	3990622
		2018- 2019 (Up to Sept)	22578 84	0		2257884
III.	At least Four Ambient Air Quality –		0	-	0	e in the core
II (B.P)	Monitoring stations should be					
	established in the core zone as			-		ore zone i.e.
	well as in the buffer zone for RPM,					Area and
	SPM, SO2& NOX monitoring. Location of the stations should be				-	tions in the illage, Balda
	decided based on the					khari village
	meteorological data, topographical	0		0	-	of AAQ is
	features and environmentally and			0	0	onsoon. The
	ecologically Sensitive targets and		e		-	od April to
	frequency of monitoring should be				-	e parameter
	undertaken in consultation with	-				are as per
	the State Pollution Control Board.				-	CPCB, are
		very we	en withi	u uie :	norms. I	'he detailed

		District Keonjnar, Orissa.		
17.7		monitoring location enclosed as Annexure-12 .		
IV.	Data on ambient air quality (RPM,	Data on ambient air quality (PM10, PM2.5, and		
III (B.P)	SPM SO2&NOx) should be regularly	SO2 & NO_{x} is being submitted once in six		
	submitted to the Ministry	monthly basis to State Pollution Control Board.		
	including its Regional office	The latest submission is enclosed as Annexure		
	located at Bhubaneswar and the	-13.		
	State Pollution Control Board /			
	Central pollution Control Board			
	once in six months.			
V.	Fugitive dust emissions from all	The project has implemented different type of		
IV (B.P)	the sources should be controlled	dust suppression system to arrest the fugitive		
	regularly water spraying	dust emission from the source level in and		
	arrangement on haul roads,	around the mines premises.		
	loading and unloading and transfer	The detailed implementations are follows.		
	points should be provided and	\checkmark Fixed type water sprinklers are		
	properly maintained.	implemented in mines permanent haul		
		roads and dispatch roads.		
		✓ Mines benches, temporary haul roads		
		and other processing areas dust		
		generation is suppressed by use of		
		mobile water tankers. In this regard		
		project has engaged two no., of 25 KL		
		mobile water tanker, which is inbuilt		
		with high pressure hydraulic sprinkling		
		system.		
		\checkmark Five numbers of 8 KL capacity mobile		
		water tankers is being used for dust		
		suppression in the Public roads, railway		
		sidings approaching roads & railway		
		yards.		
		\checkmark Portable type trolley mounted sprinkler		
		has been placed in loading & unloading		
		points to avoid the dust generations.		
		✓ Haulage roads are being maintained with		
		grader and water sprinkling to avoid any		
		sort of ruts and potholes.		
		L		
		The latest monitoring report is enclosed here as		
3.73		Table. No – 15.		
VI.	Measures should be taken for	Regular maintenance of HEMM & Processing		
V (B.P)	control of noise levels below 85	plants is being carried out to minimize the noise		
	dB(A) in the work environment.	level from source. Apart from that, proper PPEs		
	Workers engaged in operations of	like ear plug, muffles are also provided to		

District Ke	onjhar, Orissa.
HEMM, etc. should be provided	employees. Further, to ensure the noise limit,
with ear plugs / muffs.	regular noise monitoring is carried out on
	fortnightly basis for work zones like crusher
	plant premises, screen plant premises, ROM
	loading point, beneficiation plant premises,
	drilling area & work shop. The noise levels are
	· ·
	well within prescribed norms, the monitoring
	reports are given in table -16 .
VII. Industrial waste water (workshop	STP is provided / implemented at mines
VI (B.P) and waste water from the mine)	
should be properly collected,	waste domestic water from Kitchen, toilet and
treated so as to conform to the	etc. The treated water is used for plantation and
standards prescribed under GSR	dust suppression activities.
422 (E) dated 19th May, 1993 and	
31th December, 1993 or as	treatment of waste water from water service of
amended from time to time. Oil	equipment. The existing ETP is having physical
and grease trap should be installed	
before discharge of workshop	system and silt sedimentation pit.
effluents.	The both STP and ETP final discharge water is
	being monitored on fortnightly once to ensure
	the final discharge water in line to approved
	CTO and record maintained for the same. The
	test results are very well within the norms. The
	latest monitoring report is enclosed here as
	table. No – 13 and table. No 14.
VIII. Personnel working in dusty areas	Initial Medical Examination & Periodical
VII (B.P) should wear protective respiratory	Medical Examination is being carried out to all
devices and they should also be	0
provided with adequate training	
and information on safety and	
health aspects. Occupational	-
health surveillance program of the	During the reporting period (April to September,
workers should be undertaken	
periodically to observe any	
contractions due to exposure to	X-Ray, and lung spirometer etc. A comprised
dust and take corrective measures,	
if needed	period is enclosed as Annexure – 09.
	We have established on Environmental Call
IX. A separate environmental	
VIII management cell with suitable	headed by the General Manager to look after
(B.P) qualified personnel should be	the implementation of the various pollution
setup under the control of a senior	control measures and other Environment

гт		onjhar, Orissa.		
	executive, who will report directly	management System requirements. The detail		
	to the head of the organization.	of the Environment Cell structure is enclosed as		
		ANNEXURE- 14.		
Х.	The funds earmarked for	The funds earmarked for environmental		
IX (B.P)	environmental protection	Protection are being utilized for the same only.		
	measures should be kept in	The same expenses details are mentioned in the		
	separate account and should not	table no17		
	diverted or other proposes. Year			
	wise expenditure should be			
	reported to the Ministry and			
	Regional Office located at			
	Bhubaneswar.			
XI.	The project authorities should	We will abode the said condition.		
X (B.P)	inform to the Regional Office			
	located at Bhubaneswar regarding			
	date of financial closures and final			
	approval of the project by the			
	concerned authorized and the date			
	of start of land development work.			
XII.	The Regional Office of the Ministry	We are extending all our cooperation during		
XI (B.P)	located at Bhubaneswar shall	inspections by the Authority.		
м (В.Г)	monitor complains of the	hispections by the nutrionty.		
	stipulated conditions. The project			
	authorities should extend full co-			
	operations to the officer (S) of the			
	regional office by furnishing the			
	requisite data / information/			
	monitoring reports.			
XIII.		The Project is uploading the last six monthly EC		
	1 5 1 1	Compliance reports in the website bearing		
XII (B.P)				
	status of the implementation of	address <u>www.uimm-ip.com</u> on regular basis.		
	the stipulated EC conditions	The details of submission of the six monthly		
	including results of monitored	compliance reports on the status of the		
	data (both in hard copies as well	implementation of the stipulated conditions are		
	as by e-mail) to the Ministry of	enclosed as TABLE NO18.		
	Environmental and Forests, its			
	regional Office, Bhubaneswar, the			
	respective zonal offices of CPCB			
	and the SPCB. The proponent shall			
	upload the status of the EC			
	conditions, including results of			
	monitored data on their website			

	onjnar, Orissa.
and shall update the same	
periodically. It shall	
simultaneously be sent to the	
Regional Office of the Ministry of	
Environment and Forests,	
Bhubaneswar, the respective Zonal	
Officer of CPCB and the SPCB.	
XIV. A copy of clearance latter shall be	It has been complied with intimating the letters
XIII sent by the proponent to	to local Gram Panchayat, Municipality, DDM
5 1 1	Office, Zillah Parishad, Divisional Forest Officer
· ·	
Parishad /Municipal Corporation,	etc. and a copy of environmental clearance
Urban local body and local NGO, if	letter also made available in the company's
any, from whom suggestions /	website i.e. <u>www.uimm-ip.com</u> .
representations, if any, were	
received while processing the	
proposal. The clearance letter shall	
also be put on the web site of the	
company by the proponent.	
XV. The State Pollution Control Board	It has been complied.
XIV should display a copy of the	1
(B.P) clearance letter at the Regional	
office, District Industry Centre	
and Collector's office/ Tehsildar's	
Office for 30 days.	
	The environmental statement in Dama V is
	The environmental statement in Form – V is
XV each financial year ending 31st	being submitted regularly to the state pollution
(B.P) March in form-V as is mandated to	control board for the financial year. We are also
be submitted by the project	uploading the annual environment statement
proponent to the concerned State	along with the six monthly environmental
Pollution Control Board as	
prescribed under the Environment	www.uimm-ip.com. The latest Form – V for the
(protection) Rules, 1986, as	FY 2017-18 is submitted to the board, copy
amended subsequently, shall also	enclosed as Annexure – 15 .
be put on the website of the	
company along with the status of	
compliance of EC conditions and	
STALL ALSO DE SENT THE REGIONAL	
shall also be sent the Regional Office of the Ministry of	
Office of the Ministry of	
Office of the Ministry of Environment and forests, at	
Office of the Ministry of Environment and forests, at Bhubaneswar by e-mail.	The Droiget has already advertised for increase
Office of the Ministry of Environment and forests, at	The Project has already advertised for iron ore mining and iron ore beneficiation plant projects

(B.P)	newspapers widely circulated, one	in two newspapers about the issuance of the
	of which shall be in the vernacular	environment clearance of the Project, one is
	language of the locality concerned,	advertised in the vernacular language of the
	within 7 days of the issue of the	locality concerned.
	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 also at web site	
	of the Ministry of Environment	
	and Forests at http: / /	
	envfor.nic.in and a copy of the	
	same should be forwarded to the	
	Regional Office of this Ministry	
	located at Bhubaneswar.	

PHOTOS-1:



Photo showing check dams & Check weirs implementation within ML





Photo Showing varies Nallah protection measures under taken out side ML



Photos showing village harvesting pond developed in surrounding villages





Photo showing OB & sub grade dumps are provided with retention wall and other Mitigative measures.

PHOTOS -2:



Retaining wall provided at the toe end of the dump

PHOTOS -3:





PHOTOS SHOWING THE AVENUE PLANTITON AT KEONJAHR







Photos showing varies area plantation undertaken

PHOTOS -4:



Photos showing mobile water tankers encaged for dust suppression



Photos showing automatic fixed sprinkler installed at mines permanent Haul road



Photo showing motor grader under use for road maintenance





Photos showing dry fog implementations is varies plantation.

PHOTOS -5:





PHOTO SHOWING ROOF RAIN WATER HARVESTING SYSTEMS EMPLOYEE'S CAMP





PHOTO SHOWING ROOF RAIN WATER HARVESTING SYSTEMS AT MINES & UNCHABALI DISPENSARY

PHOTOS - 6:



Photo Showing DP 1100 Hydraulic Drilling Machine equipped with dust extractor & wet drilling mechanism

PHOTOS -7:



PHOTO SHOWING ETP PLANT PROVIDED IN WORK SHOP SERVICE CENTER



PHOTOS SHOWING STP TECHNICAL STRUCTURE & EXISTING PLANT

PHOTOS – 8:



Photo Showing Electronic Display board placed in the mines entrance gate to display the Environmental parameters