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 2018-2019, 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, Orissa.
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	
subject to approval of the State	There is no agricultural land within in the
Land use Department, Government	mine lease area. Therefore, the said
of Orissa for diversion of	diversion from state land use department is
agricultural land for Non-	not applicable.
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	0
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	
Pollution Control Board.	direct discharge from mine lease area.

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. 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 .
	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.
	 ✓ 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 wa carried out all along the Nallah boundarie and few areas is converted as green barriers The detailed implementation is given in table -2 and photo evidence for the same in given below.
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 in
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, slop level and sub benches are maintained in at mines waste / sub grade dump. Retention wall: Bottom of the OB dum, 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 the 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 alon with local grass seeds to avoid the dum erosion during monsoon period. The detailed implementation is given in Table 4.
Photo evidence is given below a 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	with proper manner to the future
	management of rehabilitated areas	reclamation. Such as like proper dozing,
	shall continue until vegetation	terracing, adequate slope, ditching and
	becomes self-sustaining.	Plantation.
	Compliance status should be	
	submitted to the Ministry of	
	Environment & Forests and its	
	Regional office, Bhubaneswar on	
	six monthly basis.	
1		

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 and tanks 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 capacity should also provide 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
	<u>Water Harvesting:</u>
	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.

r	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 90503	
	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	62449 species survived up to this reporting	
	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.	
(=,	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	naul touds and dispatch touds.	
	conform to the norms prescribed	✓ Mines benches, temporary haul roads	
	by the Central Pollution Control	and other processing areas dust	
	sy the contrar romation 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 3 no. of monitoring station in core zone i.e. Mines Office and Eastern Site of ML Area and there are 3 no. of monitoring stations in the buffer zone such as Unchabali Village, Balda Village, Nayagarh

	District Keonjn	
		Village, Monitoring of AAQ is carried out
		every month except monsoon season. The
		monitoring report for the period Oct 2018 to
		March 2019 reveals that the parameter like
		PM10, PM2.5, SO2 and NOx are well within
		the norms as per NAAQs notifications made
		by the CPCB. A comprised AAQ monitoring
		reports for the reporting period is enclosed
		as TABLE7 .
		PHOTOS ARE GIVEN BELOW AS PHOTOS-4
XIII.	Regular monitoring of the flow	Regular monitoring of flow rate of different
21111.	rate of the springs and perennial	water bodies is being carried out seasonally
	nallah shall be carried out and	by covering the Nallah/rivers i.e. Baitarani
	records maintained.	River, Unchabali Nallah, Kashi Nallah, Jalpa
	records maintaincu.	Nallah, Gahirajala Nallah, Dolko Nallah
		&Dalki Nallah. Latest flow rate monitoring
37137		reports are enclosed as TABLE-8 .
XIV.	SPECIFIC CONDITION - 14 (4.00	Monitoring of water quality of Baitarini
	MTPA)	River, Unchabali Nallah, Kasi Nallah, Jalpa
	Regular monitoring of water	Nallah, Gahirjala Nallah, Mithida Spring and
	quality upstream and downstream	Dalco Nallah is being carried out seasonally.
	of the Kasinallah, the Dolkonallah,	The monitoring data covers a total of 41
	the Dalkinallah, the Ghagranallah,	parameters and results are very well within
	the Gahirajalanallah and the	the norms. The data is being maintained and
	Mithida spring shall be carried out	submitted to authorities regularly. Latest
	and record of monitored data	surface water quality report analysed during
	should be maintained and	last 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.	
XV.	The project authority should	In this regard project has been engaged KRG
IX	implement suitable conservation	RAIN WATER FOUNDATION, CHENNAI in
(B.P)	measures to augment ground	consultation with Regional Director, CGWB
	resources in the area in	and Bhubaneswar for technical guidelines
	consultation with the Regional	and implemented various conservation
	Director, Central Ground Water	measures to augment the ground water
	Board.	resources for in and around the mine lease
L		

r	District Keonjh	
		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:
		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.	Regular monitoring of ground	- GROUND WATER QUALITY:
x	water level and quality should be	
(B.P)	carried out in around the mine	Ground water quality is being monitored
	lease by establishing a network	regularly by seasonally at 10 locations
	existing wells and installing new	including core and buffer zone. The
	piezometers during the mining	monitoring locations are namely 1) Inside
		Mining lease area, 2) Unchabali village, 3)
	operation. The periodic	
	operation. The periodic monitoring [(at least four times in	Kalimatti village, 4) Balda Village, 5) Malda
		Kalimatti village, 4) Balda Village, 5) Malda Village, 6) Siljora Village, 7) Nayagarh
	monitoring [(at least four times in	Kalimatti village, 4) Balda Village, 5) Malda

	District Keonjha	
	(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	ma a . a a a a a a a a
	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	observation data is given as annexure -3.
	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
	project.	from CGWA is enclosed as ANNEXURE – 6 .
XIX.	Suitable rainwater harvesting	- ROOFTOP RAINWATER HARVESTING:
XII	measures on long term basis shall	
(B.P)	be planned and implemented in	The project has been implemented rooftop
. ,	consultation with Regional	rain water harvesting system at project
	Director, Central Ground Water	employee's camp and Unchabali dispensary
	Board.	towards ground water re-charge. The

District Keonjh	*
	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 quantity of ground
	water is recharged to the ground water table
	every year.
	- WATER HARVESTING PONDS AT
	VILLAGES:
	The project has developed four numbers of
	water harvesting ponds to encourage the
	water percolation and water harvesting in
	surrounding villages. The ponds are
	regularly de-silted and well maintained.
	Total harvesting pond water holding capacity
	is 1.5 lakh CUM/ANNUM. Details of
	harvesting ponds developed in surrounding
	villages are given in TABLE NO3 .
	- PERCOLATION POND & CHECK DAMS:
	Based on hydrology study the project has
	implemented five number of the check dams,
	settling cum percolation pits where soil is
	having highly percolating rate and one
	number of percolation pond is provided at
	the south side of the broken up area. Details
	of check dams and check weirs are follows
	as TABLE NO1 .
XX. Vehicular emissions shall be kept	The project is ensuring vehicle emission
under control and regularly	monitoring for all mining and other
monitored. Measures shall be	supporting vehicles / equipment. The
taken for maintenance of vehicles	monitoring of vehicle emission is carried out
used in mining operations and in	C
transportation of mineral. The	THRIVENI Pollution Testing Centre,
mineral transportation shall be	Unchabali Village, Keonjhar, Pin-758034.A
carried out through the covered	
trucks only and vehicles carrying	-
the mineral shall not be	Apart from testing of transporting vehicles
overloaded. No transportation of	
ore outside the mine lease area	been introduced a software technology RF ID
shall be carried out after the	system in entry gate of the mines, this
sunset.	system is having automatic functions to read
	- -

	District Keonjh	
		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
	during daytime. Controlled	top stemming column, the Nonel technology
	blasting shall be practiced. The	and proper blast design& firing pattern with
	mitigate measures for control of	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
	5 7	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	Plants are covered with hoods.
	operated.	4) Regular water sprinkling is carried out in
	-	the loading and unloading area.

* ** * ** *	District Keonjhar, Orissa.		
XXIV.	Sewage treatment plant should be		
	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 (Oct 2018 to	
	followed accordingly.	March 2019) project has carried out IME &	
		PME for 18 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. Patnaik, 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	
	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	
		—	

	District Keonjh	
	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		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
	quality of discharge water shall	through an Electronic display board
	also be monitored [TDS, DO, pH	installed at the main gate of the project site
	and total suspended solids (TSS)].	of the company for public domain.
	The monitored data shall be	Environmental parameters uploaded in the
	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
	ourpuits as well as alsplayed off a	and photo of the display board is given

r	District Keonjhar, Orissa.		
	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.	
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	
	environment & forest and its	compliance status, we will follow the said	
	regional office located at	condition for submission of compliance	
t	•		

	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 (Oct 2018 to March
		2019) project has carried out IME & PME for
		18 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.

General Cond.	General condition		Present State	15
No				
I.	No change in mining technology	The Mining	method of the	project is fully
	and scope of working should be	mechanized	having sh	ovels, dumper
	made without prior approval of the	combinations	and sorting and	l sizing of the Iron
	Ministry of Environment & Forest.	Ore and it's t	being followed as	per the approved
		Scheme of Mi	ning/Plan.	
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.			
II.	No change in the calendar plan	There is no	change in the c	alendar plan, the
	including excavation, quantum of		-	eral iron ore and
	mineral iron ore and waste should	-		per the approved
	be made.			ails of the iron ore
		and waste are		
		Year	ROM	OB Removed
			(In Mt.)	(In Mt.)
		2017-2018	3990662	840938
		2018-2019	3787130	1363949
III.	At least Four Ambient Air Quality –	The monitorin	ng of AAQ is bein	g done in the core
II (B.P)	Monitoring stations should be			AL area, There are
	established in the core zone as	3 no. of mo	nitoring station	in core zone i.e.
	well as in the buffer zone for RPM,	Mines Office	and Eastern Sit	e of ML Area and
	SPM, SO2& NOX monitoring.	there are 3 :	no. of monitorin	ng stations in the
	Location of the stations should be	e buffer zone such as Unchabali Village, Balda		oali Village, Balda
	decided based on the	Village, Naya	garh Village, Mo	nitoring of AAQ is
	meteorological data, topographical			ept monsoon. The
	features and environmentally and			period October to
	ecologically Sensitive targets and	March 2018	reveals that the	ne parameter like
	frequency of monitoring should be	PM10, PM2.5	, SO2 and NOx	are as per NAAQs
	undertaken in consultation with	notifications	made by the CF	CB, are very well
	the State Pollution Control Board.	within the	norms. The de	tailed monitoring
		location enclosed as Annexure-12 .		
IV.	Data on ambient air quality (RPM,	Data on amb	ient air quality (l	PM10, PM2.5, and

	District Keonjhar, Orissa.		
III (B.P)	SPM SO2&NOx) should be regularly	, C	
	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.	
		\checkmark 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.	
		✓ 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.	
		The latest monitoring report is enclosed here as	
		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	
	HEMM, etc. should be provided	employees. Further, to ensure the noise limit,	
	with ear plugs / muffs.	regular noise monitoring is carried out on	
L		-	

	District Keonjnar, Orissa.	
		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)	employee's camp for treatment and reuse of the
	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	ETP is provided at mines work shop for the
	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	separation of oil and grease by oil trapping
	before discharge of workshop	system and silt sedimentation pit.
	effluents.	The both STP and ETP final discharge water is
	cinuents.	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	company & contractors employees on regular
	provided with adequate training	basis. The IME & PME is being carried as per in
	and information on safety and	compliance to Mines Act 1952 & rules 1956 and
	health aspects. Occupational	amendments there to.
	health surveillance program of the	During the reporting period (Oct 2018 to March
	workers should be undertaken	2019) project has carried out IME & PME for 18
	periodically to observe any	employees. The IME & PME tests include PFT,
	contractions due to exposure to	X-Ray, and lung spirometer etc. A comprised
	dust and take corrective measures,	summery report for IME & MPE during report
	if needed	period is enclosed as Annexure – 09.
		·
IX.	A separate environmental	We have established an Environmental Cell
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
(2011)	setup under the control of a senior	control measures and other Environment
	executive, who will report directly	management System requirements. The detail
	to the head of the organization.	of the Environment Cell structure is enclosed as
	I LU LHE HEAU UI LHE UIVAIIIZALIUII.	or the Environment Cen structure is chelosed as

	District Keonjhar, Orissa. ANNEXURE- 14.	
X.	The funds earmarked for	
IX (B.P)	environmental protection measures should be kept in separate account and should not diverted or other proposes. Year wise expenditure should be reported to the Ministry and Regional Office located at Bhubaneswar.	The funds earmarked for environmental Protection are being utilized for the same only. The same expenses details are mentioned in the table no17
XI. X (B.P)	The project authorities should 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.	We will abode the said condition.
XII. XI (B.P)	The Regional Office of the Ministry located at Bhubaneswar shall monitor complains of the 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.	We are extending all our cooperation during inspections by the Authority.
XIII. XII (B.P)	The project proponent shall submit six monthly reports under status of the implementation of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Ministry of 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 and shall update the same periodically. It shall	The Project is uploading the last six monthly EC Compliance reports in the website bearing address <u>www.uimm-ip.com</u> on regular basis. The details of submission of the six monthly compliance reports on the status of the implementation of the stipulated conditions are enclosed as TABLE NO18 .

	District Keonjhar, Orissa.			
	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			
XIII	sent by the proponent to			
(B.P)	concerned Panchayat, Zila	It has been complied with intimating the letters		
	Parishad /Municipal Corporation,	to local Gram Panchayat, Municipality, DDM		
	Urban local body and local NGO, if	Office, Zillah Parishad, Divisional Forest Officer		
	any, from whom suggestions /	etc. and a copy of environmental clearance		
	representations, if any, were	letter also made available in the company's		
	received while processing the	website i.e. www.uimm-ip.com.		
	proposal. The clearance letter shall			
	also be put on the web site of the			
	company by the proponent.			
XV.	The State Pollution Control Board			
XIV	should display a copy of the			
(B.P)	clearance letter at the Regional	It has been complied.		
(=)	office, District Industry Centre			
	and Collector's office/ Tehsildar's			
	Office for 30 days.			
XVI.	The environment statement for			
XVI.	each financial year ending 31st			
(B.P)	March in form-V as is mandated to			
(D.1)	be submitted by the project			
	proponent to the concerned State	The Environmental statement in Form – V is		
	Pollution Control Board as	being submitted regularly to the state pollution		
	prescribed under the Environment	control board for the financial year. We are also		
	-	uploading the annual environment statement		
	amended subsequently, shall also	along with the six monthly environmental		
	be put on the website of the	compliance reports in the company website i.e.		
	company along with the status of	www.uimm-ip.com. The latest Form – V for the		
	compliance of EC conditions and	FY 2017-18 is submitted to the board, copy		
	-	enclosed as Annexure – 15 .		
	shall also be sent the Regional Office of the Ministry of	CHUIOSCU AS AMIEXUIE - 13.		
	•			
	Bhubaneswar by e-mail.			
VUII	The project anthemities should	The Drainet has already advertised for income		
XVII.	The project authorities should	The Project has already advertised for iron ore mining and iron ore beneficiation plant projects		
XVI	advertise at least in two local			

		3 /
(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

TABLE – 1

SL.NO	Description	Dimensions/Capacity
1	Check Dam cum Settling pond -1	9800 CUM
2 Check Dam - 4		689 CUM
3	Check Dam - 5	2000 CUM

TABLE – 1 SHOWING CHECK DAM AND CHECK WEIR DETAILS IMPLEMENTED WITHIN THE ML AREA

TABLE-2

SL.NO	Description	Location	Dimensions/Capacity
1	Check Dam - 13	21º 52' 41.96" N	15 M X 2 M X 1.5 M
		85º 25'41.97" E	
2	Check Dam - 14	21º 52' 42.88" N	15 M X 1.5 M X 1.5 M
4		85º 25'50.81" E	10 W X 1.0 W X 1.0 W
3	Chaols Dom 15	21º 52' 36.75" N	10 M X 1.5 M X 1.5 M
3	Check Dam - 15	85º 25'58.75" E	10 M A 1.5 M A 1.5 M
4	Check Dam - 16	21º 52' 35.55" N	12 M X 1.5M X 1.5 M
4	Check Dam - 16	85º 25'59.51" E	12 M A 1.5M A 1.5 M
5	Guard Wall	21°52'41.14"N	300 M
5	Guard Wall	85°25'54.05"E	300 IVI
6	Nallah Slope	21°52'45.66"N	
0	pitching	85°25'2.67"E	-
7	Diantation	21°52'41.59"N	150
	Plantation	85°25'53.87"E	150

TABLE - 2 SHOWING CHECK DAMS IMPLEMENTATION OUT SIDE THE ML

TABLE-3

SL.NO	DESCRIPTION	CAPACITY IN CUM
1	NAMIRA POND -1	8100
2	NAMIRA POND -2	92400
3	BELDA POND -1	13200
4	BELDA POND -2	43160

TABLE – 3 SHOWING IMPLEMENTED VILLAGE HARVESTING PONDS DETAILS

TABLE-4

S1. No	Description of the dump	Location of the dump	Protections Measures
1.	Sub Grade	B-Block	12, 600 Sqr. Mtr of dump surface area covered with Geo textile applications.12000 Saplings are planned on the surface of the dump.450 RM meter retaining wall constructed with the size of 1.8 M x1.2 M.
2.	Over Burden - 2	Near Garage	4000 Sqr. Mtr of dump surface area covered with Geo textile applications.150 RM of retaining wall constructed with the size of $1.8 \text{ M} \times 1.2 \text{ M}$ and followed with siltation pond, drainage water is connected to bottom check dams.
3.	Over Burden-1	Near Pillar No L2	300 Mtr retaining wall along with garland drainage is constructed with settling pit. 130 Mtr of Hume pipe drainage pattern has been constructed.

TABLE-4 SHOWING VARIES DUMP PROTECTIONS MEASURES IMPLEMENTATION

TABLE-5A

	Plantatio	n Details as on March_2	019
Sl. No	Year	Number of Saplings	Survival Rate
1	2018-2019	5860	85%
1	2017-2018	2450	90%
2	2016-2017	11865	86%
3	2015-2016	11960	85%
4	2014-2015	5980	80%
5	2013-2014	12550	70%
6	2012 - 2013	11000	80%
7	2011 - 2012	7830	70%
8	2010 - 2011	11086	65%
9	2009-2010	9922	20%

TABLE-5B

SL.NO	LOCATION	Description	2018-19	PLANTS TYPE
1	IN Side ML	Dump Safety Zone Mines bench	4410	Radha chuda, krishna chuda,cha kunda, saru cha kundha,karanja,siru tree, Arjuna
2				, J
4	OUT SIDE ML AREA	School Plantation & Avenue Plantion	650	Jack fruit, cherry, crusted apple, badam, mango
6		Nallah side	100	Mango, Neem, karanja

TABLE-5 SHOWING PLANTATION DETAILS

TABLE-6

SL. No.	Description	Unit	Quantity	Remarks
1	Automatic Fixed Sprinkler	R.M	2500	Dispatch Road and Permanente Haul Road
2	High Frequency mobile water Tanker	30 KL	1	Mines Benches,
3	High Frequency mobile water Tanker	25 KL	1	Stock yard, plant area, and other mines premises including
4	Mobile water tanker	8 KL	2	Village Roads &
5	Mobile water Tanker	8 KL	3	Railway Sidings

TABLE-6 SHOWING PRACTICE OF DUST SUPPRESSING ACTIVITIES

TABLE-7

	SUMMARIZED AMBIENT AIR QUALITY MONITORING REPORT: UNCHABALI IRON & MN ORE MINING PROJECT OF SMT. INDRANI PATNAIK, DISTRICT; KEONJHAR, ORISSA.									
	Per	riod: Oct_20	18 to March	_2019						
	Month	Qua	Quality Parameter, Results, micro.gm/CUM							
	Month	Range	PM10	PM2.5	SO_2	NO _x				
AAQ-C1 – Mines	OCT-18		85.90	41.50	860	11.30				
Office	NOV-18		84.70	41.20	9.0	12.20				
(Core zone)	DEC-18	AVG	81.20	39.20	9.80	11.60				
	JAN-19		85.30	41.50	12.10	14.20				
	FEB-19		80.40	39.30	10.30	12.60				
	MARCH-19		82.50	40.40	12.50	15.0				
	OCT-18		64.10	30.20	6.50	8.50				
	NOV-18		64.80	31.20	6.50	8.60				
AAQ-C2 –	DEC-18	AVG	65.40	31.10	9.0	10.90				
Employees Camp (Core Zone)	JAN-19	AVG	64.50	30.70	7.50	9.70				
	FEB-19		67.40	32.0	7.30	9.50				
	MARCH-19		66.00	32.20	7.60	9.30				
	OCT-18		78.30	35.60	8.10	10.80				
110.00	NOV-18		78.50	37.80	8.40	11.10				
AAQ-C3-	DEC-18	AVC	77.90	37.10	9.90	11.50				
Beneficiation plant (Core Zone)	JAN-19	AVG	76.40	36.40	10.40	12.40				
	FEB-19		75.20	35.90	9.90	12.30				
_	MARCH-19		75.60	37.10	9.60	12.50				
AAQ-B2	OCT-18	AVG	64.8	30.9	6.70	9.40				

Zistiet neonjini, etista											
Village Balda	NOV-18		66.40	31.60	7.10	9.80					
(Buffer Zone)	DEC-18		67.70	32.80	8.10	10.10					
	JAN-19		63.30	30.20	8.0	10.50					
	FEB-19		71.10	33.10	8.40	10.80					
	MARCH-19		69.30	33.80	10.20	12.70					
	OCT-18		73.0	34.70	7.80	10.60					
	NOV-18		73.60	35.70	8.06	10.80					
AAQ-B3 Villaga Navagarh	DEC-18	AVG	74.70	35.70	8.80	10.80					
Village Nayagarh (Buffer Zone)	JAN-19		70.90	34.30	9.10	11.10					
(Bullet Zolle)	FEB-19		76.10	36.10	10.30	12.50					
	MARCH-19		72.70	35.30	8.70	11.60					
	OCT-18		64.50	35.50	5.70	9.50					
440 D1	NOV-18		63.30	35.30	6.30	10.40					
AAQ-B1	DEC-18	AVC	65.80	36.90	6.70	10.0					
Village Unchabali	JAN-19	AVG	65.0	30.60	7.40	9.60					
(Buffer Zone)	FEB-19		69.31	32.50	8.80	11.10					
	MARCH-19		60.40	27.60	6.70	8.50					

TABLE-7 SHOWING AAQ MONITORING REPORT FOR THE REPORTING PERIOD.

TABLE-8

	Surface Water Fle	ow Rate in (CUM/SEC	
SL. No	Monitoring Station	APRIL-	AUGUST-	SEPTEMBER-
SL. NO	Monitoring Station	2018	2018	2018
1	Baitarani river	4.95	11.25	2.0
2	Dalko Nallah	0.07	0.36	0.17
3	Jalpa Nallah	0.25	0.40	0.93
4	Kashi Nallah	0.03	0.09	0.04
5	Unchabali Nallah	0.04	0.08	0.12
6	Dalki Nallah	0.04	0.06	0.21
7	Ghairajal Nallah	0.08	0.09	0.16

TABLE-9

Surface water Quality analysis report for the Period of Post Monsoon (November_2018)

SL.NO	DESCRIPTION	UNIT	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-8	SW-9	SW-10
1	Colour (apparent)	Hazen	5	5	5	5	5	5	5	5	5	5
2	Odour		Agreeable									
3	Taste		Agreeable									
4	Turbidity	NTU	8.13	5.85	6.49	4.90	1.74	4.02	3.14	5.58	0.87	2.78
5	рН		6.75	6.89	6.92	6.67	7.05	6.80	6.98	7.02	6.80	6.72
6	Electrical Conductivity (EC)	µS/cm	149.50	156.40	174.20	156.40	169.80	160.10	131.90	133.10	179.20	165.60
7	Total Suspended Solids (TSS)	mg/l	6.0	1.0	BDL	39.30	2.10	6.60	2.40	7.50	2.60	5.50
8	Total Dissolved Solids (TDS)	mg/l	118.0	110.0	126.0	112.0	125.0	114.0	97.0	100.0	134.0	136.0
9	Calcium Hardness as CaCO3	mg/l	53.0	44.60	49.0	49.0	57.10	61.20	49.0	49.0	57.10	61.20
10	Magnesium Hardness as CaCO3	mg/l	44.90	28.60	44.90	40.80	49.0	36.70	16.30	12.20	57.10	57.10
11	Total Alkalinity	mg/l	75.48	77.52	93.84	79.56	83.64	77.52	63.24	63.24	89.76	81.60
12	Total hardness	mg/l	97.92	73.44	93.84	89.76	106.08	97.92	65.28	61.20	114.24	118.32
14	Chloride as Cl-	mg/l	10.0	12.0	11.0	10.0	11.0	10.0	10.0	10.0	11.0	12.0
15	Residual Chlorine	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
16	Phenolic compound as C6H5OH	mg/l	BDL									
17	Sulphate as SO4	mg/l	2.61	2.09	3.42	2.59	3.16	2.09	BDL	BDL	2.21	BDL
18	Nitrite-Nitrogen (NO2-N)	mg/l	< 0.02	< 0.02	<0.02	<0.02	0.02	<0.02	<0.02	< 0.02	< 0.02	< 0.02
19	Nitrate-Nitrogen (NO3-N)	mg/l	BDL									
20	Phosphate-P (PO4-P)	mg/l	4.53	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25

REPORTING PERIOD: OCT 2018 TO MARCH 2019

			Champ	ua, Dist	net neo	iijiiai, O	1354.					
21	Ammonical Nitrogen (NH4-N)	mg/l	0.58	0.87	0.58	0.58	0.58	0.50	0.58	0.87	1.15	0.87
22	Free Ammonia (NH3)	mg/l	0.16	0.13	0.13	0.13	0.15	0.13	0.13	0.14	0.12	0.14
23	Chemical Oxygen Demand (COD)	mg/l	10.60	8.50	12.80	8.50	12.80	8.50	12.80	12.80	10.60	8.50
24	Fluoride F-	mg/l	0.13	0.13	0.12	0.14	0.13	0.12	0.11	0.12	0.11	0.14
25	Sodium (Na)	mg/l	8.61	9.07	8.0	7.99	8.82	7.01	5.89	8.25	7.33	7.78
26	Potassium (K)	mg/l	1.28	1.49	1.25	1.67	1.42	1.08	1.08	1.14	1.01	1.44
27	Calcium as Ca2+	mg/l	26.26	17.99	19.62	19.62	22.89	24.53	19.62	19.62	22.89	24.53
28	Magnesium as Mg2+	mg/l	10.91	6.95	10.91	9.92	11.91	8.93	3.97	2.98	13.89	13.89
29	Iron (Fe)	mg/l	0.49	0.21	0.26	1.3	1.5	0.26	0.22	0.18	0.57	3.3
30	Copper (Cu)	mg/l	0.01	0.013	0.01	0.013	0.009	0.008	0.008	0.01	0.009	0.009
31	Manganese (Mn)	mg/l	0.09	0.29	0.08	0.28	0.16	0.18	0.06	0.19	0.11	0.18
32	Arsenic (As)	mg/l	<0.005	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005
33	Lead (Pb)	mg/l	0.01	0.008	0.010	0.01	0.012	0.010	0.012	0.008	0.007	0.008
34	Zinc (Zn)	mg/l	<0.01	< 0.01	< 0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.012
35	Hexavelent Chromium (Cr+6)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
36	Chromium (Cr)	mg/l	<0.005	<0.005	<0.005	<0.005	0.09	<0.005	<0.005	<0.005	<0.005	<0.005
37	Mercury (Hg)	mg/l	<0.001	<0.001	<0.001	<0.006	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001
38	Cadmium (Cd)	mg/l	0.013	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	< 0.001
39	Selenium (Se)	mg/l	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
40	Aluminium (Al)	mg/l	0.33	0.090	0.038	1.16	0.18	0.17	0.09	0.14	0.036	0.23
41	Boron (B)	mg/l	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02
	NOTE	– The monite	oring and a	inalysis ha	ıs been car	ried by the	e SGS India	a Pvt Ltd, J	amshedpu	r.		

MONITORING STATION DETAILS

SL. No	Reference Code	Station Name	Source of Sample
1	SW -1	Baitarani U/S	River
2	SW -2	Baitarani D/S	River
3	SW – 3	Kashi Nallah	Nallah
4	SW – 4	Jalpa Nallah	Nallah
5	SW – 5	Gahirajala Nallah	Nallah
6	SW – 6	Mithila Spring	Spring
7	SW - 7	Dalko Nallah	Nallah
8	SW – 8	Dalki Nallah	Nallah
9	SW -9	Unchabali Nallah U/S	Nallah
10	SW - 10	Unchabali Nalla D/S	Nallah

TABLE-10

SL.NO	DESCRIPTION	UNIT	GW-1	GW-2	GW-3	GW-4	GW-5	GW-6	GW-7	GW-8	GW-9	GW-10
1	Colour (apparent)	Hazen	5	5	5	5	5	5	5	5	5	5
2	Odour		Agreeable									
3	Taste		Agreeable									
4	Turbidity	NTU	<0.10	0.37	0.58	0.52	114.0	<0.10	9.39	2.26	492	<0.10
5	рН		6.80	6.60	6.68	7.13	6.92	7.15	6.70	7.11	6.77	6.71
6	Electrical Conductivity (EC)	μS/cm	207	208	506	115.60	153.0	198.50	201	203	92.70	154.0
7	Total Suspended Solids (TSS)	mg/l	BDL	BDL	2.10	BDL	10.50	BDL	2.80	BDL	46.60	BDL
8	Total Dissolved Solids (TDS)	mg/l	147.0	149.0	360.0	84.0	120.0	137.0	140.0	143.0	72.0	154.0
9	Calcium Hardness as CaCO3	mg/l	68.0	84.0	112.0	6.81	12.65	14.9	12.65	14.59	6.81	14.59
10	Magnesium Hardness as CaCO3	mg/l	56.0	36.0	88.0	28.0	52.0	60.0	52.0	60.0	28.0	60.0
11	Total Alkalinity	mg/l	103.95	105.84	102.06	47.25	75.60	103.95	113.40	111.50	45.36	115.29
12	Total hardness	mg/l	124.	120.0	200.0	64.0	108.0	120.0	124.0	124.0	60.0	132.0
14	Chloride as Cl-	mg/l	9.78	2.94	41.09	9.78	6.85	9.78	5.87	7.83	6.36	10.76
15	Residual Chlorine	mg/l	<0.1	<0.1	<0.1	0.20	<0.1	0.20	<0.1	<0.1	<0.1	<0.1
16	Phenolic compound as C6H5OH	mg/l	BDL									
17	Sulphate as SO4	mg/l	BDL	BDL	25.90	BDL	BDL	2.29	BDL	2.66	BDL	BDL
18	Nitrite-Nitrogen (NO2-N)	mg/l	BDL	0.06	0.03	0.03	0.02	BDL	0.06	0.09	0.05	0.07
19	Nitrate-Nitrogen (NO3-N)	mg/l	BDL	1.85	17.34	1.23	BDL	BDL	BDL	BDL	BDL	BDL
20	Phosphate-P (PO4-P)	mg/l	<0.25	<0.25	<0.25	<0.25	0.41	<0.25	0.31	<0.25	<0.25	<0.25

Ground water Quality analysis report for the Period of Post Monsoon (November-2018)

REPORTING PERIOD: OCT 2018 TO MARCH 2019

Ammonical Nitrogen BDL 210.70.9 0.5 0.8 0.5BDL BDL BDL 1.1 mg/l(NH4-N) 22 Free Ammonia (NH3) < 5.0 < 5.0 0.9 < 5.0 < 5.0 0.37 0.27 0.24 0.27 0.24 mg/lChemical Oxygen < 5.0 < 5.0 < 5.0 6.30 23 mg/l< 5.0 < 5.0 < 5.0 < 5.0 6.30 < 5.0 Demand (COD) 24 Fluoride Fmg/l0.18 0.19 0.12 BDL 0.12 0.20 BDL 0.12 BDL 0.18 25 7.19 8.52 19.65 3.62 4.60 5.96 3.30 5.03 2.776.82 Sodium (Na) mg/l4.94 26 Potassium (K) 0.16 < 0.10 0.24 < 0.10 < 0.10 0.27 < 0.10 < 0.10 < 0.10mg/l27.25 27Calcium as Ca2+ 33.67 44.89 14.43 22.44 24.05 28.96 25.65 12.83 28.86 mg/lMagnesium as Mg2+ 28 13.62 8.76 21.40 6.81 12.65 14.59 6.81 14.59 mg/l12.65 14.59 29 Iron (Fe) mg/l 0.261 0.215 < 0.001 < 0.001 0.550 0.016 0.529 < 0.001 0.3 0.024 Copper (Cu) < 0.005 30 mg/l< 0.005 0.062 < 0.005 < 0.005 0.007 < 0.005 < 0.005 0.006 < 0.005 31 Manganese (Mn) mg/l0.011 < 0.005 < 0.005< 0.005 < 0.005 < 0.005< 0.005 < 0.0050.013 0.0057 32 Arsenic (As) mg/l< 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 33 Lead (Pb) < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 0.015 < 0.005 mg/l34 Zinc (Zn) < 0.001 < 0.001 < 0.001 < 0.001 0.021 < 0.001 < 0.001 < 0.001 0.057 < 0.001 mg/lHexavelent Chromium 35 BDL BDL BDL BDL BDL BDL BDL BDL BDL **BDL** mg/l(Cr+6) Chromium (Cr) < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 36 mg/l37 Mercury (Hg) < 0.001 < 0.001 < 0.001< 0.001 < 0.001 < 0.001< 0.001< 0.001 < 0.001 0.081 mg/l38 Cadmium (Cd) < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 < 0.001 mg/l 39 Selenium (Se) < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 mg/l40 0.016 0.017 0.017 < 0.01 0.014 0.022 0.011 Aluminium (Al) 0.014 < 0.01 < 0.01 mg/l< 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 < 0.02 41 Boron (B) mg/l < 0.02 **NOTE** – The monitoring and analysis has been carried by the SGS India Pvt Ltd, Jamshedpur.

Combined Six Monthly Compliance Status of Environmental Clearance Conditions – "Unchabali Iron and Manganese Ore Mines & Iron ore Beneficiation Plant of M/s Indrani Patnaik" located in village(s) Unchabali & Balda, Sub-division Champua, District Keonjhar, Orissa.

SL.No	Reference Code	Station Name	Source of Sample		
1	GW - 1	Malda Village	Tube Well		
2	GW – 2	Balda Village	Tube Well		
3	GW – 3	Janaganthpur Village	Tube Well		
4	GW – 4	Unchabali Village	Tube Well		
5	GW – 5	Camp (within ML)	Tube Well		
6	GW – 6	Mines (within ML)	Tube Well		
7	GW - 7	Gahirajala Village	Tube Well		
8	GW – 8	Basantpur Village	Tube Well		
9	GW -9	Nayagardh Village	Tube Well		
10	GW -10	Pid-Pukhari Village	Tube Well		

MONITORING STATION DETAILS

Table-11

Monitoring Station	RL	Descripti	GWL (BGL in M)							
		on	Oct- 18	Nov- 18	Dec- 18	Jan- 19	Feb- 19	March -19		
Inside ML area	510	Bore Well	1.3	1.80	2.0	2.10	2.20	1.90		
Unchabali	504	Open Well	3.1	3.40	3.60	3.80	3.70	3.20		
Kalimati	550	Open Well	3.4	3.60	3.50	3.70	3.60	3.40		
Balda	568	Open Well	3.2	3.40	3.60	3.50	3.80	3.10		
Malda	507	Bore Well	5.1	5.80	6.10	6.20	6.90	6.40		
Nayagarh	504	Open Well	3.2	3.50	3.80	3.90	3.20	2.80		

#TABLE NO. 1 SHOWING GROUND WATER LEVEL MONITORING DATA TABLE-12

SL.NO	MONTH	Blasting Results in PPV	Norms for PPV
1	NOVEMBER – 18	4.75 mm/sec	5.00 mm /sec
2	DECEMBER – 18	2.21 mm/sec	5.00 mm /sec
3	JANUARY – 19	0.22 mm/sec	5.00 mm /sec

TABLE NO.-12 SHOWING PEAK PARTICLE VELOCITY REPORT

TABLE - 13

SL. NO	DESCRIPTION	Unit	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	March- 19
1	pH	-	6.71	6.92	6.68	6.95	7.05	7.90
2	Total Suspended Solids (TSS)	Mg/l	35.75	15.50	38.75	29.70	46.95	41.85
3	(BOD)	Mg/l	25.40	8.90	22.70	27.40	26.10	12.50

NOTE – *The monitoring and analysis has been carried by the SGS India Pvt Ltd, Jamshedpur.*

#TABLE NO.13 SHOWING SEWAGE WATER TREATMENT PLANT WATER DISCHARGE REPORT

TABLE – 14

SL .NO	DESCRIPTION	Unit	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	March- 19
1	pH	-	6.73	6.83	7.12	7.12	7.14	7.70
2	Total Suspended Solids (TSS)	Mg/1	12.65	2.0	23.95	63.10	20.95	58.05
3	Oil & Grease	Mg/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0

NOTE – *The monitoring and analysis has been carried by the SGS India Pvt Ltd, Jamshedpur.*

#TABLE NO.14 SHOWING EFFULENT WATER TREATMENT PLANT WATER DISCHARGE REPORT

TABLE – 15

Periods		MONITORING LOCATIONS						
		CRUSHER PLANT	WORK Shop	HAUL ROAD	SCREEN PLANT	MINES FACE	DUMP AREA	
		Results, micro.gm/CUM						
Oct – 18	AVG	876.42	755.05	677.94	840.33	657.08	758.33	
Nov-18	AVG	786.01	506.16	505.32	799.96	678.89	653.58	
Dec- 18	AVG	978.27	537.71	587.30	627.61	694.56	618.88	
Jan-19	AVG	792.86	438.81	654.27	653.11	721.47	668.49	
Feb-19	AVG	729.25	616.76	581.18	681.68	595.79	616.76	
Mar-19	AVG	716.03	627.66	613.05	649.74	526.36	605.22	
NOTE – Th	ne monitorir	ng and analys	sis has been	carried by th	e SGS India I	Pvt Ltd, Jams	shedpur.	

FUGITIVE EMISSION DUST MONITORING REPORT

TABLE NO.-15 SHOWING FUGITIVE EMISSION MONITORING REPORT

TABLE – 16

S1.	Locations	NOISE LEVEL, Leq.in dB (A) from data log of monitor.						
No.		Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	
	Work Zone Noise Report							
1	MINES PIT	67.38	68.28	70.30	70.20	58.18	62.34	
2	LOADING POINT	58.22	65.19	68.52	68.80	52.13	60.10	
3	OPERATOR CABIN	60.12	58.61	64.12	60.30	48.90	59.30	
4	WORK SHOP	76.44	74.48	67.22	62.11	60.13	68.12	
5	SCREEN PLANT	78.80	74.69	70.12	70.28	74.70	73.12	
		Aml	bient Nois	e Report				
1	BALDA	47.22	53.18	51.28	51.64	42.90	50.12	
2	MALDA	45.16	51.16	49.34	51.68	44.38	51.20	
3	NAYAGARH	40.23	54.20	52.26	52.00	40.40	49.23	
4	UNCHABALI	48.30	52.28	48.12	49.78	43.16	47.50	
5	OFFICE AREA	42.40	45.12	46.18	52.00	42.80	44.10	
6	CAMP AREA	47.18	48.42	50.10	48.30	43.18	43.18	
		Residentia	al. Leq: Da	y Time : 55	dB (A), N	light Time :	45 dB (A)	
	Norms	Industrial	l, Leq: Day	7 Time : 75	dB (A), N	Night Time :	70 dB (A)	
		Work-zon	e during 8	Hr exposu	re: 85 dB (A) – Leq.		

TABLE NO.-16 SHOWING NOISE MONITORING REPORT

TABLE -	17
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SI. No	DESCRIPIITON	2016-17	2017-18	2018-19
	Environmental Monito	ring Parameter Te	sting charges	
1	AAQ, Ground Water, Surface Water, STP, ETP, Soil Test, Fugitive Test etc.	24.52	22.49	87.40
	Dump Stat	oilization & Plantation	on	
2	Retaining wall, garland drain & its maintenance	11.6	6.00	5.00
3	Plantation, dump stabilization by coir matting	32.1	24.56	10.00
	Dus	t Suppression		
4	Mobile Sprinkler	49.22	50.32	40.35
5	Fixed Sprinkler	10.3	13.10	0.80
6	Dry fog	2.35	1.20	0.50
	Environmental Instrument	s and its maintena	nce & calibratio	n
7	RDS, Noise Meter, PPV Instruments etc.	2.5	1.25	1.30
8	ETP and its maintenance	5.12	1.80	1.20
9	STP and its maintenance	1.28	2.18	1.50
	Miscell	aneous Expenses		
10	Rain water harvesting and its maintenance	4	2.31	1.00
11	Occupational Health & Hygiene monitoring	1.75	6.62	1.60
12	Others (Including Nallah Protection measures)	7.55	3.95	2.0
Total		152.29	135.78	152.65

TABLE - 18

S1. No.	PERIOD	DATE OF SUBMISSION
1.	April – 2018 to Sept – 2018	01.12.2018
2.	October -2017 to March-2018	28.06.2018
3.	April-2017 to September-2017	04.12.2017
4.	October -2016 to March-2017	09.06.2017
5.	April-2016 to September-2016	25.11.2016
6.	October-2015 to March-2016	12.05.2016
7.	April-2015 to September -2015	25.11.2015
8.	October -2014 to March -2015	22.06.2015
9.	April-2014 to September -2014	10.11.2014
10.	October -2013 to March - 2014	23.05.2014
11.	April - 2013 to September - 2013	25.11.2013
12.	October - 2012 to March - 2013	25.05.2013

#TABLE NO.-18 SHOWING EC COMPLIANCE SUBMISSION DETAILS