Environmental Clearance No.J/11015/242/2008/IA.II(M) Date: 17.07.2009 <u>Compliance of Conditions</u> <u>GAURI I& II(A) OCM</u>

A) SPECIFIC CONDITION

S.N	Condition	Compliance
i	No OB shall be dumped externally	Noted and is being complied. All the OB generated is
1	during the balance life of the expansion	back filled inside the mine. Details of OB generation
	project. The ultimate slope of the dump	and backfilling for last 3 years is as follows:
	shall not exceed 28 degree. Monitoring	OB generated in $2019-20 = 3.934 \text{ Mm}^3$.
	and management of existing reclaimed	OB generated in $2020-21 = 1.684 \text{ Mm}^3$.
	dump sites shall continue until the	OB generated in $2020 \cdot 21^{\circ}$ 1.000 H Mm ³ .
	vegetation becomes self-sustaining.	OB backfilled in $2019-20 = 3.934 \text{ Mm}^3$.
	Compliance status shall be submitted to	OB backfilled in $2020-21 = 1.684 \text{ Mm}^3$.
	the Ministry of Environment & Forests	OB backfilled in $2021-22 = 1.552 \text{ Mm}^3$.
	& its Regional Office located at Bhopal	OB backfilled in 2022-23 upto june 2022 = 0.927 Mm3.
	on yearly basis.	
	5 5	117.5 Ha of External OB dump has been stabilized with
		plantation.
		Compliance is submitted to MOEFCC Regional Office,
		Nagpur every six months through six monthly
		compliance reports.
ii	Catch drains and siltation ponds of	Catch drain/Garland drain of appropriate size have been
	appropriate size should be constructed to	constructed all around the quarry and OB dump to arrest
	arrest silt and sediment flows from soil,	silt & sediments flows from the respective dump sites.
	OB and mineral dumps. The water so	In case of O.B. benches in the quarry, catch drains are
	collected should be utilized for watering	provided which carries silt & sediments into main sump
	the mine area, roads, green belt	of capacity 117 Million Gallons made at the floor of the
	development etc. The drains should be	seam. It accumulates all the silts & acts as first stage
	regularly desilted and maintained	settling tank. The water will then be pumped out
	properly. Garland drains (size gradient,	through pumps on to the surface settling tank (20.0m X
	length) and sump capacity should be	15.0m X 1.20m) & discharged into nallah. The clear
	designed keeping 50 % safety margin	water from the surface settling tank will be used for
	over and above the peak sudden rainfall	watering the mine area, roads. Catch drains mentioned
	and maximum discharge in the area	above are regularly desilted before onset of monsoon
	adjoining the mine site. Sump capacity	every year. Total length of existing Catch drain and
	should also provide adequate retention	Garland drain is 15.50 km.
	period to allow proper settling of silt	

	material.					
iii	Dimension of the retaining wall at the	Reta	aining wall at th	e toe of the du	imps and OB benc	hes
	toe of the dumps and OB benches within	is n	ot required as	such as garla	nd drains are alrea	ady
	the mine to check run-off and siltation	cons	structed.			
	should be based on rainfall data.					
iv		Ade vari- fugi at C roac as fe 09 m Wat 11 m 02 m 3 N supp no. 0 01 m tran Reg that zom Fu CHI	equate mitigation ous dust generat tive emissions. THP, crushing op ls. The details of oblows: nos. of sprinklers er spraying arran tos. of rain guns tos. of rain guns tos. of rain guns os. of Mobile W pression (Hired- of 28KL) no of hired road sportation road. garding Fugitive t as per CMR 1 the standard for fu- gitive dust moni P (Gouri I&II (A ghbridge (Gouri	ing sources to Water sprinklin perations, at tra of air pollution a provided at C ngement provid installed at coa are installed at coa are installed at Vater Tankers 1 no. of 12 K sweeping mac e dust monito 23 of 1957, 8 ngitive emissio toring is carrie .) OC) I&II (A) OC)	ded at mobile crush al stockyard t weighbridge are provided for d L, Departmental - hine provided on c ring, it is submitt hour weighted wo n is 3000 µg/m ^{3.}	ther ded naul are ner. lust – 2 coal ted ork
			-	is given below		
			Monitoring	Conce	entration	
			stations	(24 hourly v	alues in µg/m3)	
				SPM	STD	
			СНР	278	3000 (as per CMR, 1957)	
			Weighbridge	284		
v	Drills should be wet operated	Dril	ls are wet operat	ted.		

vi	regular repairing and tarring of roads used for mineral transportation. A 3-tier green belt comprising of a mix of native species shall be developed all along the	Total	Plantation 153.93 H	g and tarring of road of 5.61 lakhs done la. Year wise planta	in Gouri I&II(A)
	major approach roads and internal roads, storage yards, transfer yards.	Sr no:	Year	Plantation (Nos)	Species planted
		1	1993-94	50000	Imli, gulmohar,
		2	1994-95	50000	Peltafarm, neem,
		3	1995-96	35000	Peepal,
		4	1996-97	40000	Bamboo,
		5	1997-98	60000	Amla, Jamun,
		6	1998-99	85000	Raintree,
		7	1999-00	11000	Sissoo,karanjete
		8	2001-02	20000	
		9	2003-04	17500	
		10	2004-05	29500	
		11	2009-10	11750	
		12	2010-11	18750	
		13	2011-12	12500	
		14	2012-13	18125	
		15	2013-14	6750	
		16	2018-19	30000	
		17	2019-20	25000	
		18	2021-22	41000	
		тот	AL	561850	

vii	Controlled blasting shall be practiced	Contr	olled blastin	ng with the use of d	elay detonators is
	with the use of delay detonators. The	being	done in day	time only. Measures	to control ground
	mitigative measures control of ground			arrest fly rocks and	
	vibrations and to arrest the fly rocks and	-	• •	te free face for blast	ing and optimum
	boulders should be implemented.		-	being implemented.	
viii	A progressive afforestation plan shall be	-		g and tarring of road	
	prepared and implemented covering an			of 5.61 lakhs done	· · · ·
	area of 325.91 Ha, which includes			. 117.5 Ha of Extern	-
	reclaimed external OB dump (186),			with plantation. Yea	r wise plantation
	backfilled area (51.91 ha), along ML	detail	s is as follow	WS:	
	boundary and along roads and				~ .
	infrastructure, embankment (28 ha) and within vacant land (60ha) and in	Sr	Year	Plantation (Nos)	Species
	township outside the lease by planting	no:			planted
	native species in consultation with the	1	1993-94	50000	Imli, gulmohar,
	local DFO/Agriculture Department. The density of the trees should be around	2	1994-95	50000	Peltafarm, neem,
	2500 plants per Ha.	3	1995-96	35000	Peepal,
		4	1996-97	40000	Bamboo,
		5	1997-98	60000	Amla, Jamun,
		6	1998-99	85000	Raintree,
		7	1999-00	11000	Sissoo,karanjetc
		8	2001-02	20000	
		9	2003-04	17500	
		10	2004-05	29500	
		11	2009-10	11750	
		12	2010-11	18750	
		13	2011-12	12500	
		14	2012-13	18125	
		15	2013-14	6750	
		16	2018-19	30000	

		17 18 TO	2019-20 2021-22 FAL	25000 41000 561850	
ix	Of the excavated area of 223.31 Ha, an area of 51.91 ha shall be reclaimed with plantation and the void of 171.40 ha which is proposed to be converted in to a water body shall be gently sloped and the upper benches shall be terraced and stabilized with plantation/afforestation by planting native plant species in consultation with the local DFO/Agriculture Department. The density of the trees should be around 2500 plants per ha.	2022	is 223.31 H	be complied. Excava Ia. Afforestation in b ieving optimum heig	ackfilled area will
X	No ground water shall be used for Mining operations.	for n abstr no: 0	nine water o action has b CGWA/NOC/M	not used for mining of discharge, for NOC been obtained from 0 /IN/ORIG/2021/12465 bsed as Annexure A	for Ground water CGWA vide letter
xi	Regular monitoring of groundwater level quality should be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring for quantity should be done four times a year in pre-monsoon (may), monsoon (August), post- monsoon (November) and winter (January) seasons and for quality in May .Data thus collected should be submitted to the Ministry of Environment Forests and to the Central pollution Control Board quarterly within one month of monitoring.	The 4 tin (Aug (Janu moni CGW	groundwater mes a year just), Post- iary) season toring repor VB Nagpur w	 level monitoring is in pre-monsoon monsoon (Novemb and for quality on t is regularly sent to with a copy to MoEF& water monitoring repo 	(May), Monsoon ber) and Winter ace in a year. The Regional Officer, &CC & CPCB.
xii	The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource.	offic	e of Gouri I&	ting system has been &II (A) OC with roo villages have no s	f top area of 262.5

	The Project authorities should meet	However regular supply of water is ensured in case of
	water requirement of nearby villages(s) in case the village wells go dry due to dewatering of mine.	scarcity.
xiii	Sewage treatment plant of adequate capacity shall be installed in the exiting colony .ETP should also be provided for workshop and CHP wastewater.	At present, Septic tank and soak pit is used for colony although which is not in mine lease area of Gauri I & II(A) OC. STP for Gouri colony is proposed to be constructed under proposed new project Gauri Pauni Expansion OCP. A provision of Rs:75.0 lakhs has been made for STP in Project report of Gauri Pauni Expansion OCP. ETP of 75 KL/day capacity is in operation at Workshop.
xvi	Besides carrying out regular periodic health checkup of their workers, 10% of the workers identified from workforce engaged in active mining operations shall be subjected to health checkup for occupational diseases and hearing impairment, if any, through an agency such as NIOH, Ahmadabad within a period of one year and the results reported to this Ministry and to DGMS.	 Periodical health check-up of mine workers are carried out regularly with the purpose of detecting occupational diseases & hearing impairment. WCL has set up of 25 bedded Area Hospital in Ballarpur Area with qualified doctors catering to the medical needs of the employees and local populace. The following infrastructure is available in the Area Hospital: Qualified Doctors Qualified lab technicians Spirometry instrument, ECG machine, Audiometer, X-ray machine, Blood testing apparatus Eco friendly generator etc. The prevention measure / medicine for burns, malaria and provision of antisnake venom are ensured at Area hospital. Periodical Medical Examination (PME) is carried out compulsorily for each employee once in five years upto the age of 45 years and for those above 45 years is once in three years. PME is done with the purpose of detecting and keeping records of diseases with specific importance of Coal Workers Pneumoconiosis. This is covered under Statute.
		During PME, the candidates are subjected to complete clinical examination (including acuity of vision and hearing) radiological examination of chest and routine

		i			
		examina	tion of blood and	urine.	
				E done at Ballarp	ur Area is
		given bel			
		Year	IME (in nos.)	PME (in nos.)	
			Acheived	Target Acheive	d
		2021	953	1220 1425	
		2022	857	1220 1216	
xvii	For monitoring land use pattern and for				
	post mining land use, a time series of	Digital p	rocessing of entit	re lease area is bei	ng carried
	land use maps, based on satellite	out by	CMPDIL in 202	20 and report sul	omitted to
	imagery (on a scale of 1:500) of the core	MOEFCO	C. Report Attache	d.	
	zone and buffer zone, from the start of		•		
	the project and until end of the mine life				
	shall be prepared once in 3 years (for				
	any one particular season which is				
	consistent in the time series), and the				
	report submitted to MOEF and its				
	Regional office at Bhopal.		. 1 1.		<u> </u>
xviii	A final Mine Closure plan along with		e	s came into fo	
	details of Corpus Fund should be		-	ailed framework	
	submitted to the Ministry of	Closure I	Plan was describe	ed. Thereafter MCP	for Gouri
	Environment & Forests within six	I&II (A)	OC was prepared	d. As per amended	guidelines
	months from the date of Environmental	the comp	etent authority to	o approve MCP of	mines of
	clearance for approval.	Govt. Co	mpanies will be o	concerned board of	Company.
		Followin	g the directives of	of MoC, MCP of O	Gouri I&II
		(A) OC	was prepared and	d the same was ap	proved by
		WCL Bo	ard on 28/01/2013	3.	-
xix	The project authorities shall in			pur area for last five	e years:
	consultation with the panchayat and	Sr no.		Expenditure (lakhs)
	local villages identify socio-economic	1	2017-18	24.04	
	and welfare measures under CSR to be	2	2018-19	7.816	
	carried out over the balance life of the	3	2019-20	237.35	
	mine.	4	2020-21	47.05	
		5	2021-22	2.17	

B. GENERAL CONDITIONS

i	No change in mining technology & scope of working should be made without prior	Agreed.
	approval of the Ministry of Environment & Forest.	
ii	No change in calendar plan including	Agreed.
	excavation quantum of minerals coal &	
	waste should be made.	
iii	Four ambient air quality monitoring	Monitoring of Ambient Air quality is being done by
	stations should be established in the core	CMPDIL
	zone as well as in the buffer zone of	AAQ monitoring stations have already been established
	SPM, RSPM, SO2 and NOx monitoring.	The stations being
	Location of the stations should be	1. Manager Office Gouri - BGOA-1
	decided based on the meteorological data,	2. Gouri Village - BGOA-2
	topographical features and	3. SAM Office - BGOA-3
	environmentally and ecologically	4. Gouri Colony/Filter plant - BGOA – 4
	sensitive targets in consultation with the state pollution Control Board.	The stations have been fixed considering the meteorological data, topographical features etc. The monitoring is carried out with due prior intimation to MPCB. Monitoring data is being submitted to MOEF &CC & MPCB regularly.
		The monitoring results for period of 01.04.2022 to 30.09.2022 is attached.
iv	Data on ambient air quality (SPM,	Ambient Air quality monitoring is being carried out as
	RSPM, SO2 and NOx) should be	per GSR 742(E). The monitoring reports on quarterly
	regularly submitted to the Ministry	basis are submitted to MOFF, and MPCB Chandrapur as
	including its Regional office at Bhopal	per directives.
	and to the State Pollution Control Board	The monitoring results for period of 01.04.2022 to
	and the Central Pollution Control Board	30.09.2022 is attached.
	once in six months.	
v	Adequate measures should be taken for	Regular monitoring through CMPDIL is being done on
	control of noise levels below 85 dBA in	fortnightly basis and results are within limits.
	the work environment. Workers engaged	Workers exposed to high noise level are provided with
	in blasting and drilling operations,	ear plugs/muffs. Monitoring reports enclosed.
	operation of HEMM, etc should be	
	provided with earplugs/muffs.	
vi	Industrial wastewater (workshop and	Water collected in main sump are pumped to surface
	wastewater from the mine) should be	sedimentation tank (20.0m X 15.0m X 1.20m) after
	properly collected, treated so as to	settlement it is delivered in to natural course. ETP of
	conform to the standard prescribed under	capacity 75 KL/day is provided.
	GSR 422 (E) dated 19 the May 1993 and	The effluent discharge are monitored as per GSR
	31 December or as amended from time to	742(E). Monitoring reports enclosed.
	time before discharge .Oil and grease trap	

	should be installed before discharge of workshop effluents.				
vii	Vehicular emissions should be kept under control and regularly monitored. Vehicles used for transporting the mineral and stowing sand should be covered with tarpaulins and optimally loaded.	Vehicles used for the with tarpaulins and valid PUC are only	optimally lo	aded. Vehicles v	with
viii	Monitoring of environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipment in consultation with the State pollution Control Board and data got analyzed through a laboratory recognized under EP Rules, 1986.	CMPDIL Laboratory which is NABL accredited exists at Nagpur, which monitors all the mines of WCL.			
ix	Personal working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects. Occupational health surveillance programmed of the workers should be undertaken periodically to observe any contractions due to exposure to dust & to take corrective measures if needed.	Protective respirate exposed to dust are training on safety a statuary requireme Periodical medical being done is every detect any disease taken up at project Details of VTC tra given below:	ea. Workers and and health asp nt under mine examination five years in so that approp level. VTC d	re also regularly pects at VTC (Thes safety Act) of every worke n our area Hospi priate action car etails are as foll	r given his is the rs is tal to h be ows
	take concerive measures if needed.		VTC	Training	
		Year	Target	Acheived	
		2021-22 2022-23 (upto Sept 2022)	680 680	592 440	
x	A separate environmental management cell with suitable qualified personnel should be set up under the control of a Senior Executive, who will report directly to the Head of the company.	A separate environ established. At HQ, WCL - Th reporting to Direct multi-disciplinary At Area Level – A environment dept. Assistant Manager	e cell is head or (Technical) trained execu rea General N & assisted by	ed by GM (Env).The team com tives. Manager heads t 7 GM (Oprn), Al) prises of he
		At Unit Level-Env		-	s headed

		by Sub Area Manager and is assisted by Project Nodal
		Officer (Env) at unit level,
xi	The funds earmarked for environmental	The funds earmarked for environmental protection
ЛІ	protection measures should kept in	measures are kept in separate account and it is not used
	separate account and should not be	for any other purpose, Expenditure statements are
	diverted for other purpose. Year wise	shown in every six monthly compliance reports sent to
	expenditure should be reported to this	MOEF Nagpur
	Ministry and its regional Office at	Revenue expenditure till September 2022 = 536.86
	Bhopal.	lakhs.
		Capital expenditure till September 2022 = 226.5 lakhs
xii	The project authorities Should advertise	Noted and complied. Attached.
	at least in two local newspapers widely	
	circulated around the project ,one of	
	which shall be in the vernacular language	
	of the locality concerned within seven	
	days of clearance letter informing that the	
	project has been accorded environmental	
	clearance and a copy of the clearance	
	letter is available with the State pollution	
	control Board and may also be seen at the	
	website of the ministry of Environment &	
	Forests at http://envfor.nic.in	
xiii	A copy of the environment clearance	Complied. Gram panchayat copy enclosed.
	letter shall be marked to concerned /Zila	
	parishad, municipal corporation or Urban	
	Local Body and local NGO, if any from	
	whom any suggestion /representation has	
	been received while processing the	
	proposal. A copy of the clearance letter	
	shall also be displayed on the company's	
	website.	
xiv	A copy of the clearance letter shall be	Agreed
211 1	displayed on the website of the concerned	
	State Pollution Control Board. The EC	
	letter shall also be displayed at the	
	Regional Officer, District Industry Center	
	and collector's Office / Tehsildar's Office	
	for 30 days.	
XV	The project proponent shall submit six	Noted and is being complied. Copy of Cover letter of
224	monthly reports on the status of	last six monthly compliance report submitted to
	monuny reports on the status of	asi six monuny compliance report submitted to

	compliance of the stipulated	Regional Officer of the MOEF, the respective Zonal
	environmental clearance conditions (both	offices of CPCB and the SPCB attached.
	in hard copy and in e-mail) to the	
	respective Regional Officer of the MOEF,	
	the respective Zonal offices of CPCB and	
	the SPCB. The compliance status of the	
	stipulated EC conditions shall also be	
	-	
	uploaded by the project authorities on their website and updated at least once in	
	-	
	every six months so as to bring the same	
	in the public domain. The monitoring	
	data of environmental quality parameters	
	(air, water, noise, and soil) shall also be	
	displayed at the entrance of the project	
	premises and mines office and	
	incorporate office and on the company's	
L	website.	
xvi	The Regional Office of this Ministry	Agreed upon.
	located at Bhopal shall monitor	
	compliance of the stipulated conditions.	
	The project authorities should extend full	
	co-operation to the officer(s) of the	
	Regional Office by furnishing the	
	requisite data/ information/ monitoring	
	reports.	
xvi	The environmental statement for each	Agreed. Environmental Statement for the year 2021-22
i	financial year ending 31 st March in	is submitted to MPCB. Attached.
	Form-V is mandated to be submitted by	
	the project proponent tot the concerned	
	state pollution Control Board as	
	prescribed under the Environment	
	(protection) Rules, 1986, as amended	
	subsequently, shall also be uploaded on	
	the company website along with the	
	status of compliance of EC conditions	
	and shall be sent to the respective	
	Regional Offices of the MOEF by E-	
	mail.	
3	The ministry or any other competent	

	authority may stipulate any further condition for environmental protection.	Agreed
4	Failure to comply with any of the conditions above may result in withdrawal of this clearance and attract the provisions of the Environment (Protection), Act, 1986.	Agreed
5	The above condition will be enforced inter-alia the provisions of the water (prevention Control of pollution) Act 1974, the Air (prevention & Control of pollution) Act, 1981, the Environment (protection) Act, 1986 and the public Liability Insurance Act, 1991 along with their amendments and Rules. The proponent shall ensure to undertake and provide for the costs incurred for taking up remedial measures in case of soil contamination, contamination of ground water and surface water, and occupational and other diseases due to the mining operations.	Agreed