

# Sasan Power Limited

Moher & Moher Amlohri Extension Opencast Coal Mine Project, Post  
Box No. – 2, (ISO 14001: 2015 certified Coal Mine)  
Village-Amlohri, Post-Pondi Naugai, Waidhan-486886, Dist: Singrauli,  
Madhya Pradesh, 486886

MMAEOCM / ENV/HY – 2019 - 20 – 56

28 Nov, 2019

**The Director (s)**  
**Ministry of Environment, Forest and Climate Change,**  
**Regional Office (WZ),**  
**E-5, Kendriya Paryavaran Bhawan,**  
**E-5 Arera Colony, Link Road-3,**  
**Ravishankar Nagar, Bhopal – 462016**

**Subject: Half-yearly Compliance report of Environmental Clearance for 20 MTPA Moher & Moher Amlohri Extension Opencast Coal Mine Project (MMAEOCM) Village-Amlohri, Post-Pondi Naugai, Waidhan-486886, Dist: Singrauli (MP)**

Respected Sir,

This has reference to the Environmental Clearance Letter No. J-11015/60/2008-IA.II(M) dated 30<sup>th</sup> June, 2015. We are submitting herewith the half-yearly EC compliance Report along with Environmental Monitoring Reports (Hard & Soft copy) for the period from Apr. 2019 to Sep. 2019 for your kind perusal please.

The receipt of this report may kindly be acknowledged,

Yours faithfully,

**Regards,**



**Umesh Mahato**  
**(Head Sasan Coal Mine)**  
**For Sasan Power Limited (Coal Mines)**

Encl.: As above

- CC.: 1) Member Secretary, MP Pollution control Board, Bhopal  
2) The Regional Officer, MP Pollution control Board, Singrauli  
3) The Director, MoEFCC, New Delhi  
4) The Member Secretary, CPCB, New Delhi

## COMPLIANCE REPORT\*

ON STIPULATED CONDITIONS OF ENVIRONMENTAL CLEARANCE (EC) ACCORDED TO MOHER & MOHER-AMLOHRI EXTENSION  
OPEN CAST COAL MINE PROJECT (MMAEOCP) VIDE LETTER No. J-11015/60/2008-IA.II (M) DATED 30<sup>th</sup> June, 2015

Sr. No	Sr. No in EC	STIPULATED CONDITION	COMPLIANCE STATEMENT
<b>A</b>	<b>A</b>	<b>SPECIFIC CONDITIONS</b>	
1.	i.	The maximum production from the mine at any given time shall not exceed the limit as prescribed in the EC.	<b>Being Complied.</b>
2.	ii.	As per Supreme court Judgment dated 25.08.2014 in case no.120/2012, the coal blocks allocated for UMPP would only be used for UMPP and no diversion of coal for commercial exploitation shall be permitted. Accordingly, notwithstanding anything else contained in this or any other approval of this Ministry, the production of coal from UMPP block shall be limited to the extent to meet the requirement of Sasan UMPP only.	<p style="text-align: center;"><b>Complied.</b></p> <p>The coal production from the mine is well within the limit of 20 MTPA as prescribed in the EC.</p> <p>The copy of production statement as submitted to The Director, Geology and Mining Govt. of Madhya Pradesh, Bhopal dated 01/10/2019 is submitted. <b>(Annexure - 1)</b>.</p>
3.	iii.	The validity of EC is for the life of the Mine or as specified in the EIA Notification, 2006, whichever is earlier.	<b>Noted.</b>
4.	iv.	The Wildlife conservation plan shall be prepared for the project and approved by the Govt. of Madhya Pradesh. This shall be implemented in consultation with Forest and Wildlife departments of the state government. The plan shall include creation of corridor in conjunction with the neighboring mines which come up in the area to allow movement of these fauna through the project area. The corridor shall be forested with species from natural habitat for free movement of faunas found in the study area to provide connectivity to enable them reach the neighbouring forest unhindered. The	<p style="text-align: center;"><b>Complied.</b></p> <p>Wildlife Conservation Plan (WCP) has been prepared by the project authority; WCP has also been submitted to the state Government of Madhya Pradesh for preparation of Regional Wildlife Management Plan to be implemented in line with the requirement for the conservation of Wildlife.</p>

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		project Authority shall also participate in the regional conservation plans and when prepared in the future for the conservation of flora and fauna found in the region.	
5.	v.	The Environmental clearance is subject to obtaining prior clearance from wildlife angle including clearance from the standing committee of the National Board for Wildlife as applicable.	<b>Not Applicable.</b>
6.	vi.	There shall be no diversion of coal to any other end users other than for which it has been intended Thermal Power Plant(s).	<b>Agree &amp; Complied.</b>
7.	vii.	There shall be no increase in mine lease area.	<b>Agree &amp; Complied.</b>
8.	viii.	Transportation of coal shall be through Over land Conveyor.	<b>Complied.</b>  Coal from Mine end is transported through a covered single flight overland conveyor up to the Sasan Ultra Mega Power Project (SUMPP)
9.	ix.	During Expansion there shall be no additional external dumps.	<b>Being Complied.</b>
10.	x.	Garland drains shall be provided.	<b>Complied.</b>  Garland drains are constructed to arrest discharge and runoff with silt and sediments surging into areas adjoining the periphery of OB dump.

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11.	xi.	OB slope stability needs to be expedited	Slope stability study has been carried out by Central Mining & Fuel Research Institute (CMFRI) Dump slopes are maintained as per the report.
12.	xii.	Grassing to be done on top soil to protect its fertility.	<p style="text-align: center;"><b>Complied.</b></p> <p>The Topsoil conservation and use are successive and periodic activities during mining operation.</p> <p>Presently, 149411 cubic meter of topsoil is stacked for further use in reclamation and greenbelt development inside mine area.</p> <p>Grassing shall be done on top soil at stack yard before monsoon every year to conserve its fertility.</p>
13.	xiii.	Additional Toilets in the school be provided under CSR programme.	<p style="text-align: center;"><b>Complied.</b></p> <p>Total – 29 Nos. of toilets are operational in the DAV school of the Krishna Vihar R &amp; R Colony.</p>
14.	xiv.	Gabion wall/retaining wall/Pitching of boundary wall be provided.	<p style="text-align: center;"><b>Complied.</b></p> <p>To check run-off and siltation from OB dumps/benches, retaining wall has been constructed at the toe of permanent dump slopes, in addition to the provision of Garland drains.</p>
15.	xv.	The medical facilities be improved.	<p style="text-align: center;"><b>Complied.</b></p> <p>The Medical Care Facility has been constructed at R&amp;R colony. There is a first aid centre at site. All the health care facilities are maintained as</p>

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			per the requirement having supported with qualified staff.
16.	xvi.	Coal transportation in pit by tippers, surface to siding by tipper and loading at siding by pay loaders into rail wagons.	<p style="text-align: center;"><b>Complied.</b></p> <p>In pit, coal transportation is done by dumpers, fed via front end loaders, which ultimately feed to coal crushers through hoppers. The coal is then conveyed to power plant through dedicated over land conveyor (OLC). There is no rail wagon loading facility is envisaged for this project.</p>
17.	xvii.	The Production shall be within the same mining lease Area.	<b>Being Complied.</b>
18.	xviii.	The Production shall be within the same mining lease Area.	<b>Being Complied.</b>
19.	xix.	The OB shall be completely re-handled at the end of the mining and the area shall be backfilled up to the ground level and covered with about a meter thick Top soil.	OB is and being handled and re-handled as per approved mining plan.
20.	xx.	The land after mining shall be brought back for the agriculture purpose to the extent possible.	Although most of the land after mining have their designated land use, based on the availability, rest of the land shall be reclaimed for the agricultural purpose.
21.	xxi.	Garland Drains shall be provided.	<p style="text-align: center;"><b>Complied.</b></p> <p>Garland drains (3mX3m) are constructed to arrest discharge and runoff with silt and sediments surging into areas adjoining the periphery of OB dump. Ponds/sumps with capacity of 200mX100mX6m (01 Nos), 220mX110mX8m (01 Nos) &amp; 50mX50mX6m (02 nos) has been constructed for proper settling of coal / silt material.</p>

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22.	xxii.	Appropriate embankments shall be provided along the side of the river/nallah flowing near or adjacent to the mine.	<b>Complied.</b>  There is no water body flowing close or adjacent to the mine.
23.	xxiii.	The CSR cost should be Rs.5 per tonnes of coal produced which should be adjusted as per the annual inflation.	<b>Complied.</b>  Moher and Moher-Amlohri Extension Mines is a part of Sasan Power Limited. A separate budget for the CSR is maintained and spent as qualifies under Company's Act, 2013.
24.	xxiv.	Everybody in the core area should be provided with mask for protection against fugitive dust emission.	<b>Complied.</b>  All the engaged work force is provided with dust mask for protection against fugitive dust emission.
25.	xxv.	Dust masks to be provided to everyone working in the mining area.	<b>Complied.</b>  All the engaged work force is provided with dust mask for protection against fugitive dust emission.
26.	xxvi.	The supervisory staff should be held personally responsible for ensuring compulsory regarding wearing of dust mask in the core area.	<b>Complied.</b>  PPE Compliance is strictly followed.
27.	xxvii.	People working in the core area should be periodically tested for lung diseases and the burden of cost on account of coal mine area.	<b>Complied.</b>  Periodic Occupational health check up is carried out as per Director General Mines Safety (DGMS) requirement.
	xxviii.	The mining area should be surrounded by greenbelt having thick closed thick canopy of the tree cover	<b>Complied.</b>  Plantation has been carried out using different native species along

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28.			roadside, undisturbed area and infrastructure area. Bio-reclamation of OB dump and backfilled area has already been started with plantation. <b>47802 numbers sapling</b> planted in <b>32.07 acres</b> land from <b>April -2019 to September, 2019</b> on the dump slopes, haul roads dividers and along the road side. Green belt Development carried out as per CPCB guidelines.
29.	xxix.	The embankment constructed along the river boundary shall be of suitable dimensions and critical patches shall be strengthened by stone pitching on the river front side and stabilized by with plantation so as to withstand the peak water flow and prevent mine inundation.	<b>Not Applicable.</b>  The mine area is not under catchment area (HFL) of any of the rivers.
30.	xxx.	There shall be no overflow of OB into river and into the agricultural fields and massive plantation of native species shall be taken up in the area between the river and the project.	<b>Complied.</b>  Garland drains (3mX3m) are constructed to arrest discharge and runoff with silt and sediments surging into areas adjoining the periphery of OB dump. Ponds/sumps with capacity 200mX100mX6m (01 Nos), 220mX110mX8m (01 Nos) & 50mX50mX6m (02nos) constructed for proper settling of silt material.
31.	xxxi.	OB shall be stacked at one external dumpsite(s) only. The ultimate slope of dump shall not exceed 28°. Monitoring and management of existing reclaimed dumpsite shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, forest & Climate Change and its concerned Regional offices on yearly basis.	<b>Complied.</b>  OB generated from mining operation is being dumped at external dump area.  Slope stability study has been carried out by Central Mining & Fuel Research Institute (CMFRI). The ultimate slope of the dump is maintained within 28°. Reclaimed dumpsite will be managed and monitored till vegetation becomes self-sustaining.
32.	xxxii.	Catch drains and siltation ponds of appropriate size shall be constructed to arrest the silts and sediments flows from soil,	<b>Complied.</b>

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		<p>OB and mineral dumps. The water so collected shall be utilized for mine area, roads, green belt development, etc. The drains shall be regularly de silted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50% safety margin over and above the peak sudden rainfall and maximum discharge in the area adjoining the mine site. Sump capacity shall also provide adequate retention period to allow proper settling of silt material.</p>	<p>Catch drains are constructed to collect and drain water to sumps and ponds. Catch drains are provided with check dams to arrest silt and sediment flow with water. These drains are regularly de-silted and maintained properly.</p> <p>The stored water is used for spraying / sprinkling on haul roads and also for greenbelt development.</p> <p>Garland drains (3mX3m) are constructed to arrest discharge and runoff with silt and sediments surging into areas adjoining the periphery of OB dump. Ponds/sumps with capacity 200mX100mX6m (01 No.), 220mX110mX8m (01 No.) &amp; 50mX50mX6m (02Nos) are provisioned for proper settling of silt material.</p>
33.	xxxiii.	<p>Dimension of the retaining wall at the toe of the dumps and OB benches within the mine to check run-off and siltation shall be based on rainfall data.</p>	<p style="text-align: center;"><b>Complied.</b></p> <p>To check run-off and siltation from OB dumps/benches, retaining wall is being constructed at the toe of permanent dump slope. The dimension of the retaining wall at the toe of the dumps and OB benches are maintained as 3m width X 2m width X 2m width X 1 m width, which takes care of the runoff and siltation.</p>
34.	xxxiv.	<p>Crushers at CHP of adequate capacity for the expansion project shall be operated with high efficiency bag filters. Water sprinkling system shall be provided to check the fugitive emissions from the crushing operations, conveyor system, haulage roads and transfer points ,etc.</p>	<p style="text-align: center;"><b>Complied.</b></p> <p>Bag filters are provided at secondary crusher house.</p> <p>Water sprinkling system along with mist foggers has been provided at transfer points of conveyor system.</p> <p>Regular water sprinkling on haul roads is practiced to check fugitive dust emissions also installed the fixed water sprinklers on Haul road for</p>



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			effective dust separation.
35.	xxxv.	Drills shall be wet operated.	<p style="text-align: center;"><b>Complied.</b></p> <p>State of the art drilling machines are deployed and are fitted with dust extractors.</p>
36.	xxxvi.	The Project authorities shall undertake regular repairing and tarring of roads used for mineral transportation. A 3-tier greenbelt comprising of mix native species shall be developed all along the major approach roads.	<p style="text-align: center;"><b>Complied.</b></p> <p>Presently Mineral is transported to the power plant through overland conveyor belt.</p> <p>Approx. <b>149928</b> nos of plants from different native species planted along roadside, undisturbed area and infrastructure area. Bio-reclamation of OB dump and backfilled area has already been started with plantation. <b>47802 numbers sapling</b> planted in <b>32.07 acres</b> land from <b>April -2019 to September, 2019</b> on the dump slopes, haul roads dividers and along the road side. Green belt Development carried out as per CPCB guidelines.</p>
37.	xxvii.	Control blasting shall be practiced with use of delay detonators and only during day time. The mitigative measures for control of ground vibrations and to arrest the fly rocks and the boulders shall be implemented.	<p style="text-align: center;"><b>Complied.</b></p> <p>Controlled blasting is practiced with use of delay detonators. Ground vibration generated due to the blasting is measured by two or more seismographs regularly. The permissible limit for the ground vibration with respect to the structures is strictly followed. Measures are taken to minimize ground vibrations. Blasting is done during daytime only.</p>
38.	xxviii.	A Progressive afforestation plan shall be implemented covering an area of 1891 ha. At the end of mining, which includes reclaimed external OB dump area (320ha), Internal OB dump area (141ha), along roads and green belt (62ha) and	<p style="text-align: center;"><b>Complied.</b></p> <p>Progressive plantation is carried out in the external OB dump as well as internal OB dump when we reach the ultimate level as per approved</p>

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		<p>in township located outside the lease by planting native species in consultation with local DFO/Agriculture department. The density of tree shall be around 2500 plants per ha. Massive plantation shall be carried out in open spaces in and around the mine and a 3-tier avenue plantation along the main approach road to the mine.</p>	<p>Mining Plan. Bio-reclamation of OB dump and backfilled area has already been started with plantation. <b>47802 numbers sapling</b> planted in <b>32.07 acres</b> land from <b>April -2019 to September, 2019</b> on the dump slopes, haul roads dividers and along the road side. Green belt Development carried out as per CPCB guidelines..</p> <p>The status of greenbelt is regularly submitted the MoEF&amp;CC and also the MPPCB as a part of Annual Environmental Statement and also the EC Compliance Report.</p>
39.	xxxix.	<p>An Estimated total of 1893.38 Mm<sup>3</sup> of OB will be generated during the entire life of mine. Out of which 204 Mm<sup>3</sup> of OB will be dumped in one external OB Dump. An earmarked area of 3.2 Km<sup>2</sup> of land with height of 90m. 1689.38 Mm<sup>3</sup> of OB will be dumped in two internal dumps in covering an area of 1411 ha. The maximum height of external OB dump for hard OB will not exceed 90m. The maximum slope of OB shall not exceed 28°. Monitoring and management of reclaimed dump sites shall continue till the vegetation becomes self – sustaining and the compliance status shall be submitted to MoEF and its concerned Regional Office on yearly basis.</p>	<p style="text-align: center;"><b>Complied.</b></p> <p>About 157.25 Mm<sup>3</sup> of overburden has been dumped in the area of about 189 ha of land and about 228.17 Mm<sup>3</sup> has been accommodated in internal dump as on 30.09.2019. As the land acquisition is becoming very critical, MoEF&amp;CC has been requested for the amendment in EC condition to increase OB dump height from 90 m to maximum 150 m. A Slope Stability Study Report for a dump height of maximum 150 m submitted by Central Mining &amp; Fuel Research Institute (CMFRI), Dhanbad. Even with increased dump height, the ultimate slope will be kept within 28°. Monitoring and management of reclaimed dump will be continued as suggested by MoEF &amp; CC. After the visit of official of MoEF&amp;CC Regional Office, Bhopal, the certified EC compliance report has already been forwarded to the MoEF&amp;CC, New Delhi vide dated 26.10.2018. The final recommendation is awaited.</p> <p>Compliance status report is being submitted on half yearly basis to Regional Office, Bhopal as well as MPPCB and MoEF &amp;CC.</p>

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40.	xl.	The Proponent should prepare a restoration and reclamation plan for the degraded area. The land be used in a productive and sustainable manner.	<b>Shall be Complied.</b>  Restoration and reclamation of the area will be carried out as per the approved mine closure plan
41.	xli.	Compensatory Ecological & Restoration of waste land, degraded land, OB dumps in lieu of breaking open the land be carried out.	<b>Shall be Complied.</b>  Restoration and reclamation of the area will be carried out as per the approved mine closure plan
42.	xlii.	The mining should be phased out in sustainable manner. No extra over burden dumps are permitted.	<b>Complied.</b>  Mining is carried out in sustainable manner There shall be no additional over burden dumps against the approved mine plan.
43.	xliii.	No ground water shall be used for mining operation.	<b>Complied.</b>  Ground water is not utilized for mining operation. However, Mine pit water generated from the mining excavation is being regularly reused for dust suppression purpose.
44.	xliv.	Of the total quarry area of 1440 ha, the backfilled area of 1411 ha shall be reclaimed with plantation and a void of 29 ha at a depth of 40 m which is proposed to be converted into 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 tree shall be 2500 per ha.	<b>Being Complied.</b>  Approx. <b>149928</b> nos of plants from different native species planted along roadside, undisturbed area and infrastructure area. Bio-reclamation of OB dump and backfilled area has already been started with plantation. <b>47802 numbers sapling</b> planted in <b>32.07 acres</b> land from <b>April -2019 to September, 2019</b> on the dump slopes, haul roads dividers and along the road side. Green belt Development carried out

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			<p>as per CPCB guidelines.</p> <p>The same will be continued on the other dump slopes once reach the ultimate level as per approved Mining Plan.</p>
46.	xliv.	<p>Regular monitoring of Ground water level and quality shall be carried out by establishing a network of existing wells and construction of new piezometers. The monitoring of quantity shall be done four times a year in Pre-monsoon (May), monsoon (August), Post monsoon (November) and the winter (January) seasons and for quality in May. Data collected shall be submitted to the Ministry of Environment, Forest &amp; Climate Change and the Central Pollution Control Board quarterly within one month of monitoring.</p>	<p style="text-align: center;"><b>Complied.</b></p> <p>Monitoring of groundwater level &amp; quality is being done regularly through a network of wells and piezometers in &amp; around mines. Water meters are installed to monitor groundwater quantity. Data collected is being submitted to MoEF&amp;CC / PCB regularly.</p> <p>Copy of Ground Water Level &amp; Ground water quality monitoring report for the month of Pre-monsoon (May), monsoon (August), Post monsoon (June) and the winter (April) seasons is attached herewith as <b><u>Annexure – 2</u></b></p>
47.	xlvi.	<p>The company shall put up artificial ground water recharge measures for augmentation of ground water resource in case monitoring indicates a decline in water table. The Project authority shall meet water requirement of nearby villages in case the village wells go dry due to dewatering of mine.</p>	<p style="text-align: center;"><b>Complied.</b></p> <p>Artificial ground water recharge structures such as check dams, recharge wells, rainwater harvesting structures are constructed to recharge ground water. Water channels and surface water ponds are constructed to augment surface water. Soil conservation areas are being identified to take up soil conservation schemes. Monitoring of water level of wells of nearby villages is done regularly.</p>
48.	xlvii.	<p>Sewage Treatment Plant shall be installed in the existing colony. ETP shall also be provided for workshop and CHP waste water.</p>	<p style="text-align: center;"><b>Complied.</b></p> <p>Common township has been provisioned for coal mine and power plant, however, the colony is yet to be fully established. Construction of STP in township is under progress and is proposed to be made operation in this financial year.</p> <p>ETP is operational and treats workshop effluents. Quality of treated</p>

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			<p>effluent is well within the prescribed standards for discharge.</p> <p>Report from Apr,2019 to Sep, 2019 on the quality of effluent at the ETP inlet and outlet is attached herewith <b><u>Annexure 3.</u></b></p>
49.	xlvi.	Besides Carrying out regular periodic health check-up of their workers identified from workforce engaged in active mining operations shall be subjected to health check-up for Occupational Diseases and hearing impairment, if any through an specialized agency/ institution within the district/state and the result reported to the Ministry and to DGMS.	<p><b>Complied.</b></p> <p>Periodic occupational health check up is done as per Director General Mines Safety (DGMS) requirements.</p>
50.	xlix.	Land Oustees shall be compensated as per the norms laid out R&R Policy of CIL, or the National R&R Policy or the R&R Policy of the state government whichever is Higher.	<p><b>Being Complied.</b></p>
51.	i.	For monitoring Land use pattern and post mining land use, a time series of land use maps, based on satellite imagery (on a scale of (1:5000) of the core Zone and buffer Zone, from the start of the project until end of mine life shall be prepared once in three years (for any one particular season which is consistent in the time series), and the report submitted to MOEFCC and its concerned Regional office.	<p><b>Being Complied.</b></p>
52.	ii.	A detailed final mine closure plan along with the corpus fund shall be submitted to the Ministry of Environment, Forest & Climate Change within 6 months of grant of Environmental Clearance.	<p><b>Complied.</b></p>
	iii.	The project Authority shall in consultation with the	<p><b>Being Complied.</b></p>

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53.		Panchayats of Local villages and administration identify Socio-Economic and welfare measures under CSR to be carried out over the balance life of mine.	<p>Various activities under CSR includes establishment of Self Help Groups (SHGs), direct and indirect employment, training and skill development of local youth, livelihood restoration, socio-economic empowerment, awareness programmes, promotion of sports and culture, health check-up camps, livestock development, alternate livelihood schemes for women belonging to SC, ST and OBCs. A DAV School has been established and running successfully.</p> <p>A copy of the CSR activities carried From (Apr,2019 to Sep, 2019) is enclosed as <b><u>Annexure - 4</u></b></p>
54.	liii.	<p>Corporate environment responsibility,</p> <p>a) The Company shall have a well laid down Environment Policy approved by Board of Directors.</p> <p>b) The Environment policy shall prescribe for standard operating procedures/processes to bring into focus any infringements/ deviations/violation of Environmental/ Forest Norms/ conditions.</p> <p>c) The hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.</p> <p>d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/violations of environmental norms to the Board of Directors of the company and/or share holder/stakeholders at large.</p>	<p style="text-align: center;"><b>Complied.</b></p> <p>The company has an Environment Policy duly signed by the Director on Board. The Environmental Policy governs the SOPs for compliance of the stipulations within the frame work of regulatory requirements of Environment / Forest Norms.</p> <p>There is a compliance monitoring system (LEGATRIX) is in place to take care of alert / reporting of compliances / non compliances of regulatory requirements to the CEO of the company.</p>

## COMPLIANCE REPORT\*

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Sr.No	Sr.No in EC	STIPULATED CONDITION	COMPLIANCE STATEMENT
<b>B</b>	<b>B</b>	<b>GENERAL CONDITIONS</b>	
1.	(i)	No change in mining technology and scope of working shall be made without prior approval of the Ministry of Environment, Forest & Climate Change.	<b>Complied.</b> Mining is carried out as per the approved mining plan.
2.	(ii)	No change in the calendar plan including excavation, quantum of mineral coal and waste shall be made.	<b>Complied.</b> OB removal and coal excavation work is carried out as per the requirement of the power plant and in line with the statutory permissions made with respect to the production quantum.
3.	(iii)	Four ambient air quality monitoring stations shall be established in the core zone as well as in the buffer zone for monitoring SPM, RPM, and SO <sub>2</sub> . Location of the stations shall be decided based on the meteorological data, topographical features and environmentally and ecologically sensitive targets in consultation with the State Pollution Control Board. Monitoring of Heavy metals such as Hg, As, Ni, Cd, Cr, etc shall be carried out at least once in six months.	<b>Complied.</b> For monitoring SPM, RPM, SO <sub>x</sub> and NO <sub>x</sub> etc., eight ambient air quality monitoring stations, i.e., four locations in core zone and four locations in buffer zone, were selected in consultation with MPPCB and ambient air quality monitoring has been carried out regularly by a MoEF&CC recognized laboratory.  Reports are being periodically furnished to MP Pollution Control Board.  Copy of ambient air monitoring quality reports from April – Sep. 2019 is enclosed herewith as <b><u>Annexure – 5</u></b>

## COMPLIANCE REPORT\*

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4.	(iv)	Data on Ambient Air quality (PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> ) and heavy metals such as Hg, Ni, As, Cr, Cd and other monitoring data shall be regularly submitted to the ministry including its concerned Regional office and to the State Pollution Control Board and the central Pollution Control Board once in six months. Random verification of samples through analysis from independent laboratories recognized under EPA Rules, 1986 shall be furnished as part of compliance report.	<b>Complied.</b>  Ambient air quality monitoring has been carried out regularly by a MoEF&CC recognized laboratory. Monitoring reports are being submitted to the ministry including its concerned Regional office and to the State Pollution Control Board and the central Pollution Control Board once in six months.
5.	(v)	Adequate measures shall be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in blasting and drilling operations, operation of HEMM, etc shall be provided with ear plugs/muffs.	<b>Complied.</b>  All the possible source of noise generation is provided with essential acoustic enclosures and HEMM deployed at site are operated under quietest configuration.  Noise levels recorded in the work environment are below 85 dB (A). Even then, hearing protection gears like ear plugs/muffs are provided to workers engaged in drilling, blasting and HEMM operations.  Occupational / Work Place Noise monitoring reports from April, 2019 – Sep. 2019 are attached herewith as <b>Annexure - 6.</b>
6.	(vi)	Industrial wastewater (workshop and wastewater from the mine) shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May 1993 and 31 <sup>st</sup> December 1993 or as amended from time to time before discharge. Oil and grease trap shall be installed before discharge of workshop effluents.	<b>Complied.</b>  Wastewater is collected & treated in ETP and the treated effluents conform to prescribed standards. Oil and grease trap is installed in ETP.  ETP (Inlet & Outlet) monitoring reports from Apr, 2019 – Sep. 2019 are attached herewith <b>Annexure - 3.</b>



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7.	(vii)	Vehicular emissions shall be kept under control and regularly monitored. Vehicles used for transporting the minerals shall be covered with tarpaulins and optimally loaded.	<b>Complied.</b> Vehicles are properly maintained and vehicular emission is kept under control by ensuring PUC certificate periodically. Transportation of Coal from mine end till SUMPP is carried out using Covered single flight overland conveyor.
8.	(viii)	Monitoring of Environmental quality parameters shall be carried out through establishment of adequate number and type of pollution monitoring and analysis equipments in consultation with State Pollution Control Board and data got analyzed through a laboratory recognized under EPA Rules,1986.	<b>Complied.</b> Monitoring of environmental quality parameters is carried out through M/S Advanced Environmental Testing And Research Lab P. Ltd. Which is a MoEF&CC approved laboratory.
9.	(ix)	Personnel working in dusty areas shall wear protective respiratory devices and they shall also be provided with adequate training and information on Safety and Health aspects.	Adequate PPE is provided to personnel working in dusty areas and training on safety and health aspects is imparted periodically.
10.	(x)	Occupational health and surveillance programme of the workers shall be undertaken periodically to observe any contractions due to exposure to dust and to take corrective measures if needed and records maintained thereof. The quality of environment due to outsourcing and the health and safety of the outsourced manpower should be addressed by the company while outsourcing.	<b>Complied.</b> Occupational health surveillance is undertaken as per DGMS guidelines.
11.	(xi)	A separate environmental management cell with suitable qualified personnel shall be setup under the control of a senior executive, Who will report directly to the Head of the Company.	<b>Complied.</b> A separate Environmental Management Department is functioning at coal mine under the direct control of a senior executive.

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12.	(xii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office at Bhopal	<b>Complied.</b>  Funds earmarked for environmental measures are separately accounted and are not used for any other purpose.
13.	(xiii)	The Project Authorities shall advertise at least in two local news papers widely circulated around the project, one of which shall be in vernacular language of the locality concerned within Seven days of the clearance letter informing that the project has been accorded environmental clearance and a copy of environmental clearance letter is available with the state pollution control board and may also be seen at the website of MoEF &CC at <a href="http://www.moef.nic.in">http://www.moef.nic.in</a> .	<b>Complied</b>  Advertised in Hindi Newspaper Nav Bharat (Satna edition) on 07.07.2015 and in Dainik Jagaran (Rewa edition) on date 07.07.2015.
14.	(xiv)	A copy of environmental clearance letter shall be marked to concern panchayat/ Zila Parishad, municipal corporation or urban local body, and local NGO, if any from whom any suggestions/ representations has been received while processing the proposal. A copy of clearance letter shall also be displayed on the company's website.	<b>Complied.</b>
15.	(xv)	A copy of environment clearance letter shall also be displayed on the website of concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional office, District Industry Sector and collector's office/Tehsildar's office for 30 days	<b>Complied.</b>

## COMPLIANCE REPORT\*

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16.	(xvi)	<p>The clearance letter shall be uploaded on the company's website and the compliance status of the stipulated environmental clearance conditions shall also be uploaded by the project authority on their website and updated at least once in every six months so as to bring the same in public domain. The monitoring data of environmental quality parameters (air,water, noise, soil) and critical pollutants such as PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient and critical sectoral parameters shall also be displayed at the entrance of the project premises and mine office and in corporate office and on company's website.</p>	<p>The EC documents are uploaded on the company's website.</p> <p><a href="http://www.reliancepower.co.in/web/reliance-power/coal-based-projects">http://www.reliancepower.co.in/web/reliance-power/coal-based-projects</a>, Sasan Ultra Mega Power Project – Sasan Coal Mine – Environmental status.</p> <p>The status of environmental parameters is displayed at the main gate.</p>
17.	(xvii)	<p>The project proponent shall submit six monthly compliance reports on status of compliance of the stipulated environmental environmental clearance conditions (both in Hard copy and in e-mail) to the respective regional office of the Ministry, respective zonal office of CPCB, and the SPCB.</p>	<p style="text-align: center;"><b>Being Complied.</b></p> <p>Latest Six monthly EC compliance report is submitted to the Ministry, respective zonal office of CPCB, and the SPCB Dated <b>10,May 2019</b>.</p>
18.	(xviii)	<p>The Regional office of the Ministry located in the region shall monitor the compliance of the stipulated conditions. The Project authority shall extend full co-operation to the office(s) of the Regional office by furnishing requisite data/information/ monitoring reports.</p>	<p style="text-align: center;"><b>Being complied</b></p>

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19.	(xix)	<p>The environmental statement for each financial year ending 31<sup>st</sup> March in FORM-V is mandated to be submitted by the project proponent for the concerned State Pollution Control Board as prescribed under the Environment Protection Rule, 1986, as amended subsequently, shall also be uploaded on the company's website along with the status of the compliance of the EC conditions and shall be sent to the respective Regional offices of the MoEF&amp;CC by e-mail.</p>	<p>The Environment statement for each financial year ending 31<sup>st</sup> March in FORM-V is submitted to the MPPCB on dated 30/09/2019 and the copy of the same is uploaded on the website.</p>
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## COMPLIANCE REPORT\*

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Sr.No	Sr.No in EC	STIPULATED CONDITION	COMPLIANCE STATEMENT
		<b>OTHER CONDITIONS</b>	
1.	5	The Proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	<b>Being Complied.</b>
2.	6	The Commitment made by the Proponent to the Issue raised during Public Hearing shall be implemented by the Proponent.	The Public Hearing was exempted in to the new EC issued for expansion of the project as the same was treated under Para 7(ii) of the EIA Notification 2006.
3	7	The proponent is required to obtain all necessary clearances / approvals that may be required before the start of the project. The ministry or any other competent authority may stipulate and further condition for environmental protection	All other statutory requirements are obtained.
4.	8.	The Ministry or any other competent authority may stipulate any further condition for environmental protection.	<b>Noted &amp; Agreed.</b>
5.	9	The proponent shall setup environmental Audit cell with responsibility and accountability to ensure implementation of EC conditions.	<b>Being Complied.</b>
6.	10	Concealing factual data or or Submission of False/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act,1986.	<b>Noted</b>
	11	The above conditions will be enforced inter-alia, under the provisions of Water (Prevention & Control of pollution) Act,	<b>Noted for Compliance.</b>

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7.		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 and any other orders passed by the Hon'ble Supreme Court of India/High courts and any other court of law relating to the subject matter. The proponent shall ensure to undertake and provide for the cost incurred for taking up remedial measures in case of soil contamination, contamination of ground water, surface water and occupational and other diseases due to mining operations.	
8.	12	Any appeal against the environmental clearance shall lie with the National Green Tribunal preferred within 30 days as prescribed under section 16 of the National Green Tribunal Act,2010	<b>Agreed.</b>
9.	13	The EC supersedes the earlier EC, vide letter no.J-11015/60/2008-IA.(MO dated 10 <sup>th</sup> December, 2008 for 12 MTPA (Normative) and (Peak) 16.00 MTPA in an area of 2037 ha.	<b>Agreed.</b>

Regards,



**Umesh Mahato**  
**(Head Sasan Coal Mine)**  
For **Sasan Power Limited (Coal Mines)**