

Power

Ref: APL/EPMPL/EMD/EC/MoEFCC/220/05/22

Date- 28.05.2022

To.

Additional Principal Chief Conservator of Forest (APCCF) Ministry of Environment, Forest and Climate Change

Regional Office, Western Region Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi Shankar Nagar Bhopal - 462 016 (M.P)

Sub: Six Monthly Compliance Status of Environment Clearances for Mahan Thermal Power Plant at Village Bandhaura, District Singrauli, Madhya Pradesh.

Ref: Environmental clearance letter no. **J-13011/56/2006-IA.II (T)** Dated- 20.04.2007 & Its subsequent amendment vide letter dated 10.02.2009, 23.08.2013 and 08.04.2016.

Dear Sir,

With reference to above subject, please find enclosed herewith Six-Monthly Environment Clearances (EC) compliance status report along with Environmental monitoring reports as Ambient Air Quality, Water Quality, Noise level & Soil quality, CAAQM data, Met. data, Greenbelt development, Fly ash & CSR Report etc. for the period of **October'2021 to March'2022** in soft (e-mail).

This is for your kind information & record please.

Thanking You, Yours faithfully,

for Mahan Energen Ltd.

(Head Env. & Forest)

Encl: as above

CC:

Member Secretary

Central Pollution Control Board

Parivesh Bhavan, East Arjun Nagar

Kendriya Paryavaran Bhawan

New Delhi- 110 032.

The Regional Officer

Madhya Pradesh Pollution Control Board
Bhakuar, Navgarh, Singrauli, MP-486887

Member Secretary, **Madhya Pradesh Pollution Control Board** Paryavaran Parisar, E-5, Arera Colony, Bhopal, MP

Mahan Energen Ltd (Formerly Essar Power MP Ltd) Adani Corporate House Shantigram, S G Highway Ahmedabad 382 421 Gujarat, India CIN: U40100DL2005PLC201961 Tel +91 79 2555 4444 Fax +91 79 2555 7177 www.adanipower.com

SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

for

1200 (2x600) MW Thermal Power Plant

at

Village- Bandhaura, Tehsil Mada, District Singrauli, Madhya Pradesh

Submitted to:

Regional Office (WZ), Bhopal

Ministry of Environment, Forest & Climate Change
Central Pollution Control Board, New Delhi

Madhya Pradesh Pollution Control Board, Bhopal

Submitted By:



Environment Management Department

Mahan Energen Limited
(Formerly Known as Essar Power (MP) Limited)

Bandhaura Village, Mada Tehsil-Singrauli District, 486 886-Madhya Pradesh

PERIOD: October'2021 to March'2022



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Background of the Project:

Essar Power (MP) Limited (EPMPL) was primarily engaged in the business of power generation. The Company owns and operates a 2 x 600 MW Coal based thermal power plant situated at villages Bandhaura, Khairahi, Karsualal and Nagwa in Singrauli District in Madhya Pradesh.

The Environmental Clearance for the project with capacity 4x500 MW was accorded on 20.04.2007 and the same was amended for change in capacity & unit size (3x600 MW) on 10.02.2009. Further, an amendment to the EC for change in source of coal from domestic to import and road transportation of coal for period of exceeding three years was accorded on 23.08.2013. An amendment in EC with respect to source the coal from captive Tokisud mine & e-auction in addition to the imported coal and extension of validity of EC till 19.04.2017 was granted on 08.04.2016.

Unit-1 of the Power Station was commissioned in April 2013 and Unit-2 was commissioned in October'2018.

Essar Power (MP) Limited (EPMPL) was admitted into the Corporate Insolvency Resolution Process (CIRP) vide the order dated 29th September 2020 passed by Hon'ble NCLT Principal Bench New Delhi (NCLT) and Mr. Ashish Chhawchharia was appointed as Resolution Professional. Further vide its order dated 01st November 2021, the Hon'ble NCLT pronounced approval of the Resolution Plan submitted by Adani Power Limited (APL), thereby concluding the CIRP of the Company.

APL has implemented the Approved Resolution Plan and acquired 100% of paid-up share capital and management control of EPMPL on **16.03.2022**. "Mahan Energen Limited" is wholly owned subsidiary of Adani Power Limited and incorporated under Companies (Incorporation) Rules, 2014 date 25.03.2022. **Please Refer attached Annexure-01.**

COMPLIANCE STATUS ON ENVIRONMENT CLEARANCE 1200 (2×600) MW Thermal Power Plant

Vide letter No. J-13011/56/2006-IA.II (T) dated 20.04.2007 and its subsequent amendment dated 10.02.2009: 23.08.2013 and 08.04.2016

Α	Specific Condition	Status
(i)	The total land requirement shall not exceed 700 ha	Noted.
	for all activities/ facilities of the power project put	Project activity/Facilities of the Power Plant has
	together.	been developed within 700 ha.
(ii)	Forestry clearance for diversion of 70 ha forest land involved in the project shall be obtained before starting construction on the forest land.	The forest area is optimised to 34.98 ha now. Stage-1 FC has been obtained from MoEFCC vide letter no.6-MPC 043/2008-BHO/822 dated. 02.04.2009. No construction activities have been taken place in the forest land.
(iii)	R&R in sufficient detail shall be finalized before award of the project and a copy of the detailed R&R shall be submitted to MoEF within three months of the issue of this letter or before the award of the project whichever is earlier.	Complied As previous, R&R Benefits are being provided as per Madhya Pradesh R&R policy 2002 and in line with agreement executed on 18.10.2008 between Collector, Singrauli and EPMPL. Copy of the agreement with MP Govt. has been forwarded to MoEF vide our letter no. EPMPL/MoEF/07.07.2010. Adani Power Limited has implemented the Approved Resolution Plan and acquired 100% of paid-up share capital and management control of EPMPL on 16.03.2022. "Mahan Energen Limited" is wholly owned subsidiary of Adani Power Limited and incorporated under Companies (Incorporation) Rules, 2014 date 25.03.2022. CIN Certificate obtained from Ministry of Commerce & enclosed as Annexure –I.
(iv)	The PAFs/ PAPs losing their homesteads or a major portion of the land shall not be ousted from the land till they are settled at the alternate sites.	Confinence & enclosed as Annexure –1.
(v)	Ash and sulphur content in the coal to be used in the project shall not exceed 35% and 0.5% respectively.	Being Complied. Ash and Sulphur content in the coal is being maintained within the stipulated norms.
(vi)	Two bi-flue stacks of 275m height each shall be provided with continuous online monitoring equipment. Exit velocity of at least 25m/sec shall be maintained	Complied. One bi-flue stack of 275 M height has been installed. Also, CEMS (Continuous emission monitoring system) has been provided for continuous online monitoring. Exit velocity is maintained > 25m/s. Stack Emission Monitoring Report is enclosed as Annexure-3 .
(vii)	High efficiency electrostatic precipitators (ESPs) with efficiency not less than 99.9% shall be installed to ensure that particulate emission does not exceed 100 mg/Nm3.	Complied, ESP (9 Fields) with efficiency of 99.9% installed in both the units to meet permissible norm for particulate emissions less than 50 mg/Nm3. Stack Emission Monitoring Report has been provided in Annexure – 3

(viii)	Space provision shall be made for Flue Gas De-	Noted
(****)	sulphurisation (FGD) unit, if required at a later	Space for FGD has been provided in the adjacent
	stage.	to chimney. As per the direction of CPCB vide letter No. B-
		33014/07/2017/IPC-II/TPP/15872 dated
		11.12.2017 and MoEFCC's Notification dated
		31st March 2021, Mahan TPP is falling under
		Category "C" Non- retiring TPPs and the timelines
		for compliance of SO2 emission is up to December
		2024.
(ix)	Low NOx burners shall be provided.	Complied
		Low NOx burners have been provided in both boilers.
(x)	Adequate dust extraction system such as bag	Compiled.
	filters and water spray system in dusty areas such	Dust extraction systems over fly ash silo, coal
	as coal and ash handling areas, transfer areas and	bunkers and conveyor junction points have been
	other vulnerable areas shall be provided.	installed. Dry fog diffusion systems have already
		been provided in coal crusher house and conveyor
		transfer points. Water sprinkling system has been
		provided in coal yard area.
(xi)	Fly ash shall be collected in dry form and ash	Being complied.
	generated shall be used in a phased manner as per	MoUs / Agreements have been signed with
	provisions of the notification on Fly Ash Utilization	cement Industries as M/s Prism Cement and M/s
	issued by the Ministry in September, 1999 and its	Ultra Tech Cement to lift the fly ash generated from
	amendments. By the end of 9th year full fly ash	the power plant. We have also signed a MOU with
	utilization should be ensured. Unutilized ash shall	"Ashtech (India) Private Ltd." for lifting the entire
	be disposed of in the ash pond in the form of High Concentration Slurry.	fly ash generated from the Power Plant.
(xii)	Ash pond shall be lined with HDPE geo-synthetic	Complied
	membrane to avoid leaching. Adequate safety	HDPE lining has been provided in the ash pond.
	measures shall be implanted to protect the ash	The ash pond operates with HCSD system.
	pond bund from getting breached.	Adequate safety measures such as proper bund
		slope, toe drain around the dyke, etc., have been
()		taken to protect the bund.
(xiii)	A conservation plan for Schedule-1 animals	Complied
	reported in the study area of the project shall be	There is no wildlife sanctuary within 15 km from
	prepared in consultation with an expert organization like Wildlife Institute of India at	the project.
	Dehradun and duly approved by State Wildlife	
	Department of Madhya Pradesh. A copy of the	
	same shall be submitted to the ministry and	
	Regional Office at Bhopal within six months of the	
	date of issue of this letter. The plan so prepared	
	shall be implemented effectively. Necessary	
	allocation of funds for the same shall be made and	
	will be included as project cost.	
(xiv)	Rain water harvesting shall be practiced. A detailed	Rainwater harvesting facilities have been
	scheme for rain water harvesting to recharge the	implemented.
	ground water aquifer shall be prepared in	
	consultation with Central Ground Water Authority/	

	Chata Customed Water Depart and a second th	
	State Ground Water Board and a copy of the same	
()	shall be submitted within 3 months to the Ministry.	D. C. C. L. L.
(xv)	The treated effluents conforming to the prescribed standards only shall be discharged in the Bhalea	Being Complied. Effluent is being treated suitably and analysis
	nallah.	results are well within the stipulated
		MPPCB/CPCB standard by the process of
		neutralizing and treated water being used for
		gardening. We are maintaining zero discharge of
		treated effluent. Effluent analysis results are
(:)		provided as Annexure – 4.
(xvi)	Regular monitoring of ground water in and around	Being complied
	the ash pond area shall be carried out, records	Regular monitoring of ground water is being
	maintained and periodic reports shall be furnished	carried out in and around the ash pond area.
	to the Regional Office of the Ministry.	Records are well within prescribed limit, report is enclosed as Annexure – 5 .
(xvii)	A 100 m wide green belt shall be developed all	Green belt / plantation being developed. We are
	around the plant area and 20 m wide green belt	also carrying out additional plantation around plant
	shall be developed all around the ash pond and	area which is under progress. Greenbelt report is
	township covering a total area of 100 ha.	enclosed as Annexure – 6
(xviii)	First aid and sanitation arrangements shall be	Complied.
	made for the drivers and other contract workers	Adani Power Limited has implemented the
	during construction phase.	Approved Resolution Plan and acquired 100% of
		paid-up share capital and management control of
		EPMPL on 16.03.2022. "Mahan Energen Limited"
		is wholly owned subsidiary of Adani Power Limited
		and incorporated under Companies
		(Incorporation) Rules, 2014 date 25.03.2022.
(xix)	Leq of Noise Level should be limited to 75 dBA and	Being complied.
	regular maintenance of equipment to be	Leq of noise level at project boundary is being
	undertaken. For people working in high noise	monitored and observed less than 75 dB(A).
	areas, personal protection devices should be	People working in high noise area are provided
	provided.	with PPEs like ear- muff and ear plug. Monitoring
		report is enclosed as Annexure–7
(xx)	Regular monitoring of the ambient air quality shall	Online CAAQ monitoring system for Ambient air
	be carried out in and around the power plant and	quality is already established.
	records maintained. The location of the monitoring	Ambient Air Quality Monitoring is also being
	stations and frequency of monitoring shall be	carried out by third party consultant
	decided in consultation with SPCB. Periodic	Monitoring reports is enclosed as Annexure-02 .
	reports shall be submitted to the Regional Office of	Records of the same are being maintained and
	this Ministry.	report is being sent to the Regional Office of the
		MoEFCC, CPCB & MPPCB. Online ambient air
		quality system also connected with MPPCB/CPCB
		portal.
(xxi)	The project proponent shall advertise in at least two	Complied.
` ′	local newspapers widely circulated in the region	·
	around the project, one of which shall be in the	
	vernacular language of the locality concerned,	
	informing that the project has been accorded	
	environmental clearance and copies of clearance	
	letters are available with the State Pollution Control	
	Tipliers are avaliable with the State Politition London	

100	Board/ Committee and may also be seen at vebsite of the Ministry of Environment and Forests	
	at http://www.envfor.nic.in .	
	A separate environment monitoring cell (EMC) with	Complied.
1 ' '	suitable qualified staff should be set up for	We have established separate environmental
	mplementation of the stipulated environmental	monitoring cell with well qualified staff to
	rafeguards.	carry out regular surveillance for
	alogualus.	implementation of stipulated environmental
		safeguards
(xxiii) A	A half yearly report on the status of implantation of	Six monthly compliance reports are being
th	he stipulated conditions and environmental	submitted regularly. Last compliance report
s	afeguards should be submitted to this Ministry, its	submitted vide letter no APL/EPMPL/EMD/
R	Regional Office at Bhopal, CPCB and SPCB	EC/MoEF/96/11/21 dated 25.11.2021.
(xxiv) R	Regional Office of the Ministry of Environment &	Complied
F	Forests located at Bhopal will monitor the	All necessary information forwarded to the
in	mplementation of the stipulated conditions. A	MoEFCC Regional Office, Bhopal.
C	complete set of documents including Impact	
A	Assessment Report and Environment	
l N	Management Plan along with the additional	
in	nformation submitted from time to time shall be	
fc	orwarded to the Regional Office for their use	
d	luring monitoring.	
(xxv) S	Separate funds should be allocated for	Complied.
	mplementation of environmental protection	Separate Budget has been allocated for the
	neasures along with item-wise break-up. This cost	Environmental Protection Measures.
	should be included as part of the project cost. The	
	unds earmarked for the environment protection	
	neasures should not be diverted for other	
1 .	purposes and year-wise expenditure should be	
	eported to the Ministry.	
1 ' '	Full cooperation should be extended to the	Full co-operation & support is extended to all the
	cientists/ officers from the Ministry/ Regional	visiting officials always.
	Office of the Ministry at Bhopal/ the CPCB/ the	
	SPCB who would be monitoring the compliance of	
	environmental status.	
	EC Amendment vide letter no. J-13011/56/2006 -	
' '	The project proponent shall upload the status of	Complied.
	compliance of the conditions stipulated in the	
	·	EC compliance report of Mahan Energen
e	environmental clearance issued vide this	Limited will update on Adani Power website
e N	environmental clearance issued vide this Ministry's letter of even no. dated 20.04.2007.	Limited will update on Adani Power website and soft copy will be sent to Regional Office of
e M in	environmental clearance issued vide this Ministry's letter of even no. dated 20.04.2007. In its website and updated periodically and also	Limited will update on Adani Power website
e M in si	environmental clearance issued vide this Ministry's letter of even no. dated 20.04.2007. In its website and updated periodically and also simultaneously send the same by e-mail to the	Limited will update on Adani Power website and soft copy will be sent to Regional Office of
e M in si R	environmental clearance issued vide this Ministry's letter of even no. dated 20.04.2007. In its website and updated periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and	Limited will update on Adani Power website and soft copy will be sent to Regional Office of
e M in si R F	environmental clearance issued vide this Ministry's letter of even no. dated 20.04.2007. In its website and updated periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests.	Limited will update on Adani Power website and soft copy will be sent to Regional Office of MoEFCC, CPCB and MPPCB.
e N in si R F (xxviii) C	environmental clearance issued vide this Ministry's letter of even no. dated 20.04.2007. In its website and updated periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM	Limited will update on Adani Power website and soft copy will be sent to Regional Office of MoEFCC, CPCB and MPPCB. Being Complied
e e N in si R F (xxviii) C (F	environmental clearance issued vide this Ministry's letter of even no. dated 20.04.2007. In its website and updated periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM PM-10 & PM-2.5) SO2, NOx (from stack &	Limited will update on Adani Power website and soft copy will be sent to Regional Office of MoEFCC, CPCB and MPPCB. Being Complied Criteria pollutants levels including NOx, RSPM
e N in si R F (xxviii) C (F a	environmental clearance issued vide this Ministry's letter of even no. dated 20.04.2007. In its website and updated periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM PM-10 & PM-2.5) SO2, NOx (from stack & ambient air) shall be regularly monitored and	Limited will update on Adani Power website and soft copy will be sent to Regional Office of MoEFCC, CPCB and MPPCB. Being Complied Criteria pollutants levels including NOx, RSPM (PM-10 & PM-2.5) SO2, NOx (from stack &
e N in si R F (xxviii) C (F a re	environmental clearance issued vide this Ministry's letter of even no. dated 20.04.2007. In its website and updated periodically and also simultaneously send the same by e-mail to the Regional Office of the Ministry of Environment and Forests. Criteria pollutants levels including NOx, RSPM PM-10 & PM-2.5) SO2, NOx (from stack &	Limited will update on Adani Power website and soft copy will be sent to Regional Office of MoEFCC, CPCB and MPPCB. Being Complied Criteria pollutants levels including NOx, RSPM

		Davis Dlack O same bains submitted to
		Power Plant & same being submitted to concern authorities. Monthly Env. Monitoring are being done by third party also and it's report being sent to pollution control board on quarterly basis. Environmental monitoring report is enclosed as Annexure-02 .
(xxix)	Avenue plantation along the route (both sides	Domestic Coal is being used for the operation of
	of the road) of imported coal transportation	Plant.
	from railway siding at Mahadiya /Singrauli	Currently transportation of the coal is not being done through Mahadiya Coal siding.
	Railway Siding to Rajmilan-Bandhoura- Power Plant site, over a distance of 63 kms shall be	Coal is procured mostly through Forward e-auction
	raised by the project proponent at its own cost.	from the nearby Coal mines of SECL/NCL.
	The status of implementation shall be submitted to	nom the hearby odd mines of older, Not.
	the Regional Office of the Ministry.	
(xxx)	It shall be ensured that only mechanized covered	The transportation by road is done through
	trucks are used for imported coal transportation.	mechanically covered trucks to the extent possible, else through tarpaulin covered trucks so as to prevent coal dust dispersion in the atmosphere.
(xxxi)	A long term study of radioactivity and heavy	Being complied
	metals contents on coal to be used shall be carried	Domestic coal is being used for electricity
	out through a reputed institute once the power plant	generation. Periodical coal and ash analysis are
	becomes operational. Thereafter mechanism for all	being carried out and reports are being submitted.
	in-built continuous monitoring for radio activity	
	and heavy metals in coal and fly ash	
(voodii)	(including bottom ash) shall be put in place. The recommendation of the Central Electricity	Currently transportation of the goal is not being
(xxxii)	Authority issued vide it's letter no.	Currently transportation of the coal is not being done through Mahadiya Coal siding.
	159/100ITP&I/CEA/2011, dated 01.02.2013, on	Coal is procured mostly through Forward e-auction
	the feasibility of transportation of coal from	from the nearby coal mines of Northern coal Field.
	Mahadiya Railway Siding to Mahan TPP site shall	Hom the ricardy soar mines of Northern court fold.
	be implemented	
(xxxiii)		We are not using imported Coal for Power
`,	, , , ,	plant. We are mostly procuring the Coal
	establish that the coal used for the power	through Forward e-auction from the nearby
	project are additional coal coming to the	coal mines as NCL/SECL.
	country. These documents shall be submitted to	
	the Regional Office of the Ministry from time to	
	time.	
	EC Amendment vide letter no. J-13011/56/2006 -	IA.II (T) dated 08.04.2016
(xxxiv)	The Sulphur and ash contents of domestic coal	Mahan Energen Limited currently procuring
	shall not exceed 0.5% and 35 % respectively. The	coal through domestic sources only.
	coal shall be sourced through e-auction only in	Ash and Sulphur and ash content in the coal is
	case of emergency and non-viability of imported	being maintained below 35% & 0.5%
	coal. In case of variation of quality at any point of	respectively.
	time, fresh reference shall be made to the Ministry	
	for suitable amendments to the environmental	
	clearance. However, for the imported coal, the ash	

	and culphur contents will be as anasified in the	
	and sulphur contents will be as specified in the earlier order.	
(xxxv)	The road transportation shall be restricted to the route as approved earlier vide amendment dated 23.08.2013.	Being followed Road transportation is being done as per the approved route only.
(xxxvi)	The transportation by road shall be through mechanically covered trucks to the extent feasible, else through tarpaulin covered trucks so as to prevent coal dust dispersion in the atmosphere.	Being followed Transporting of the coal is being done through trucks covered with tarpaulin with proper sealing arrangement as per the MoEFCC and local authority direction.
(xxxvii)	Harnessing solar power within the premises of the plant particularly at available roof tops shall be carried out and status of implementation including actual generation of solar power shall be submitted along with half yearly monitoring report.	Being Complied. Solar power panels have been installed in Township.
(xxxviii)	Monitoring of surface water quantity and quality shall also be regularly conducted and records maintained. The monitored data shall be submitted to the Ministry regularly. Further, monitoring points shall be located between the plant and drainage in the direction of flow of ground water and records	Complied. Regular monitoring of surface water quality is being carried out on monthly basis. Record are maintained & also report are sent to the Regional Office of the Ministry, CPCB & MPPCB on regular basis.
	maintained. Monitoring for heavy metals in ground water shall also be undertaken and results/findings submitted along with half yearly monitoring report.	Analysis Report of Surface Water Quality is enclosed as Annexure-09.
(xxxix)	No water bodies including natural drainage system in the area shall be disturbed due to activities associated with the setting up / operation of the power plant	Complied There is no disturbance caused to any water body including natural drainage system in the area due to operation of the plant.
(xl)	CSR schemes identified based on need-based assessment shall be implemented in consultation with the village Panchayat and the District Administration starting from the development of project itself. As part of CSR prior identification of local employable youth and eventual employment in the project after imparting relevant training shall be also undertaken. Company shall provide separate budget for community development activities and income generating programs.	CSR activities / programs are totally based on the need of the community having special focus on livelihood generation, health and education. Separate budget is allocated for CSR programs. For livelihood restoration of displaced people monthly sustenance allowance (Bhatta) is being given to PAPs. Local youths are also engaged under different contractors working inside the plant to provide them relevant training, exposure & livelihood. CSR progress report is enclosed as Annexure-10.
(xli)	For proper and periodic monitoring of CSR activities, a CSR committee or a Social Audit committee or a suitable credible external agency shall be appointed. CSR activities shall also be evaluated by an independent external agency. This evaluation shall be both concurrent and final.	Being complied & compliance assured on regular basis.

(xlii) An Environmental Cell comprising of at least one expert in environmental science/ engineering, ecology, occupational health and social science, shall be created preferably at the project site itself and shall be headed by an officer of appropriate superiority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Plant who would be accountable for implementation of environmental regulations and social impact improvement/mitigation measures.

Complied.

We have established separate environmental monitoring cell with well qualified staff to carry out regular surveillance for implementation of stipulated environmental safeguards



Office of the Registrar of Companies 4th Floor, IFCI Tower 61, New Delhi, Delhi, India, 110019

Certificate of Incorporation pursuant to change of name

[Pursuant to rule 29 of the Companies (Incorporation) Rules, 2014]

Corporate Identification Number (CIN): U40100DL2005PLC201961

I hereby certify that the name of the company has been changed from ESSAR POWER M P LIMITED to MAHAN ENERGEN LIMITED with effect from the date of this certificate and that the company is limited by shares.

Company was originally incorporated with the name Essar Power M.P. Limited.

Given under my hand at New Delhi this Twenty fifth day of March two thousand twenty-two.



MANGAL RAM MEENA

Registrar of Companies RoC - Delhi

Mailing Address as per record available in Registrar of Companies office:

MAHAN ENERGEN LIMITED

Lower Ground Floor, Hotel Conclave Boutique,, A-20, Kailash Colony,, New Delhi, New Delhi, Delhi, India, 110048

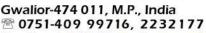






Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II



Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009102P TR No. AETRL2021TR9102 DISPATCH NO: D2021TR0724

Date of Report Issue 08/11/2021 Sample Receiving Date 30/10/2021

Sample Registration No. AETRL2021/ESSAR/AA/GATE_01
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING CLIMATIC CONDITION

SAMPLING TIME DATE OF ANALYSIS AMBIENT AIR QUALITY MONITORING

GATE NO. 1

04/10/2021 TO 30/10/2021

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 04/10/2021 TO 06/11/2021

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING								
Farameter	04-10-21	08-10-21	11-10-21	15-10-21	18-10-21	22-10-21	25-10-21	29-10-21	
PM ₁₀ (µg/m ³)	49.5	52.2	50.9	52.0	47.9	51.2	53.7	52.9	
PM _{2.5} (µg/m ³)	24.1	24.3	26.8	26.7	24.0	25.6	27.1	27.4	
NO ₂ (µg/m ³)	22.8	21.2	23.9	25.1	26.8	24.3	26.1	25.8	
SO ₂ (µg/m ³)	16.9	17.1	20.3	19.5	19.2	17.9	20.2	18.6	
CO [*] (µg/m ³)	488	445	436	471	442	490	456	478	

Davamatava	Variation in	AAQ Gate No 1	Maan I CE	NAAQ Standards:	Test Method	
Parameters	Minimum	Maximum	Mean ± SE	2009		
PM ₁₀ (µg/m ³)	47.9	53.7	51.29±0.64	100 μg/m ³	Gravimetric	
PM _{2.5} (µg/m ³)	24	27.4	25.75±0.51	60 μg/m ³	Gravimetric	
NO_2 (µg/m ³)	21.2	26.8	24.50±0.76	80 µg/m³	West and Gaeke	
SO ₂ (µg/m³)	16.9	20.3	18.71±0.54	80 µg/m³	Jacob & Hochheiser Modified	
CO ⁺ (µg/m ³)	436	490	463.25±7.84	2000 µg/m³ (8 hr)	NDIRS method	

*****END OF REPORT*****

Prepared By

Dy. Manager (Tech)



Authorized By





Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009103P TR No. AETRL2021TR9103 DISPATCH NO: D2021TR0724

Date of Report Issue 08/11/2021 Sample Receiving Date 30/10/2021

Sample Registration No. AETRL2021/ESSAR/AA/GATE_02
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING CLIMATIC CONDITION

SAMPLING TIME
DATE OF ANALYSIS

AMBIENT AIR QUALITY MONITORING

GATE NO. 2

04/10/2021 TO 30/10/2021

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 04/10/2021 TO 06/11/2021

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING								
raiailletei	04-10-21	08-10-21	11-10-21	15-10-21	18-10-21	22-10-21	25-10-21	29-10-21	
PM ₁₀ (µg/m ³)	47.2	45.8	46.9	48.9	50.2	51.6	53.0	51.4	
PM _{2.5} (µg/m ³)	23.8	22.7	24.1	24.8	25.8	26.2	27.6	27.9	
NO ₂ (µg/m ³)	24.1	23.9	23.7	25.7	24.4	23.9	26.4	25.2	
SO ₂ (µg/m ³)	13.8	14.9	15.1	16.8	14.6	16.9	19.1	20.1	
CO ⁻ (µg/m ³))	448	456	474	459	470	488	456	469	

Davamatava	Variation in	AAQ Gate No 2	- Mean ± SE	NAAQ Standards:	Test Method	
Parameters	Minimum	Maximum	Wieall ± 3E	2009		
PM ₁₀ (μg/m ³)	45.8	53.0	49.38±0.62	100 μg/m ³	Gravimetric	
PM _{2.5} (µg/m ³)	22.7	27.9	25.36±0.41	60 μg/m ³	Gravimetric	
NO ₂ (µg/m ³)	23.7	26.4	24.66±0.28	80 μg/m ³	West and Gaeke	
SO ₂ (µg/m³)	13.8	20.1	16.41±0.39	80 µg/m³	Jacob & Hochheiser Modified	
CO [*] (µg/m ³)	448	488	465.0±3.74	2000 μg/m ³ (8 hr)	NDIRS method	

******END OF REPORT*****

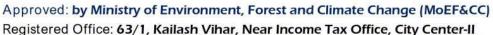
Dy. Manager (Tech)

Prepared By

GWaliot And Resognition

Authorized By







Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com



TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC7405-21-000009104P TR No. AETRL2021TR9104 DISPATCH NO: D2021TR0724

Date of Report Issue 08/11/2021 Sample Receiving Date 30/10/2021

Sample Registration No. AETRL2021/ESSAR/AA/GATE_03
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING CLIMATIC CONDITION

SAMPLING TIME
DATE OF ANALYSIS

AMBIENT AIR QUALITY MONITORING

GATE NO. 3

04/10/2021 TO 30/10/2021

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 04/10/2021 TO 06/11/2021

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING								
Farameter	04-10-21	08-10-21	11-10-21	15-10-21	18-10-21	22-10-21	25-10-21	29-10-21	
PM ₁₀ (µg/m ³)	47.4	47.9	46.7	48.1	48.9	49.7	47.8	50.3	
PM _{2.5} (µg/m ³)	24.6	25.1	25.8	24.9	25.7	26.1	26.6	27.2	
NO ₂ (µg/m ³)	20.7	21.9	24.1	24.8	22.7	25.3	26.7	26.1	
SO ₂ (µg/m ³)	13.5	15.2	13.8	16.7	16.9	18.8	16.7	18.5	
CO ⁻ (µg/m ³)	442	451	447	436	478	425	466	430	

Davamatava	Variation in	Variation in AAQ Gate No 3		NAAQ Standards:	Took Mathad
Parameters	Minimum	Maximum	Mean ± SE	2009	Test Method
PM ₁₀ (µg/m³)	46.7	50.3	48.35±0.29	100 μg/m ³	Gravimetric
PM _{2.5} (µg/m ³)	24.6	27.2	25.75±0.18	60 μg/m ³	Gravimetric
NO ₂ (µg/m ³)	20.7	26.7	24.04±0.58	80 µg/m³	West and Gaeke
SO ₂ (µg/m³)	13.5	18.8	16.26±0.56	80 µg/m³	Jacob & Hochheiser Modified
CO* (µg/m³)	425	478	446.88±5.73	2000 μg/m ³ (8 hr)	NDIRS method

******END OF REPORT****

Dy. Manager (Tech)

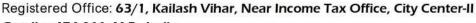


Manager

thorized By







Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009105P TR No. AETRL2021TR9105 DISPATCH NO: D2021TR0724

Date of Report Issue 08/11/2021 Sample Receiving Date 30/10/2021

Sample Registration No. AETRL2021/ESSAR/AA/ADM Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING

CLIMATIC CONDITION

SAMPLING TIME DATE OF ANALYSIS AMBIENT AIR QUALITY MONITORING

Nr ADMIN

04/10/2021 TO 30/10/2021

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 04/10/2021 TO 06/11/2021

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter		DATE OF MONITORING									
	04-10-21	08-10-21	11-10-21	15-10-21	18-10-21	22-10-21	25-10-21	29-10-21			
PM ₁₀ (µg/m ³)	44.8	43.1	45.2	44.9	42.7	46.1	45.1	45.9			
PM _{2.5} (µg/m ³)	22.9	23.9	24.7	25.7	22.6	24.6	23.7	24.1			
NO ₂ (µg/m ³)	20.5	19.7	21.2	20.4	21.9	25.1	25.6	24.8			
SO ₂ (µg/m ³)	14.1	15.6	13.8	15.6	16.1	18.6	17.4	15.9			
CO ⁻ (µg/m ³)	412	418	430	410	444	428	436	408			

D	Variation in	Variation in AAQ Nr Admin		NAAQ Standards:	To at Matter d
Parameters	Minimum	Maximum	Mean ± SE	2009	Test Method
PM ₁₀ (µg/m ³)	42.7	46.1	44.73 ±0.41	100 μg/m ³	Gravimetric
PM _{2.5} (µg/m ³)	22.6	25.7	24.03±0.45	60 µg/m³	Gravimetric
SO ₂ (µg/m ³)	19.7	25.6	22.40±0.30	80 µg/m³	West and Gaeke
NO ₂ (μg/m³)	13.8	18.6	15.89±0.36	80 μg/m³	Jacob & Hochheiser Modified
CO [*] (µg/m ³)	408	444	423.25±5.01	2000 μg/m³ (8 hr)	NDIRS method

******END OF REPORT*****

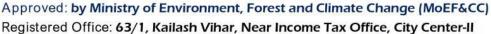
Dy. Manager (Tech)

Prepared By

Gwalior And Resource

Authorized By





Gwalior-474 011, M.P., India **20751-409 99716, 2232177**

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC7405-21-000009682P TR No. AETRL2021TR9682 DISPATCH NO: D2021TR0771

Date of Report Issue 04/12/2021 Sample Receiving Date 28/11/2021

Sample Registration No. AETRL2021/ESSAR/AA/GATE_01 Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING CLIMATIC CONDITION

SAMPLING TIME DATE OF ANALYSIS AMBIENT AIR QUALITY MONITORING

GATE NO. 1

01/11/2021 TO 27/11/2021

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 02/11/2021 TO 03/12/2021

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter		DATE OF MONITORING								
	01-11-21	05-11-21	08-11-21	12-11-21	15-11-21	19-11-21	22-11-21	26-11-21		
PM ₁₀ (µg/m ³)	51.2	50.7	53.1	53.8	51.9	55.3	54.1	55.7		
PM _{2.5} (µg/m ³)	25.8	26.5	27.2	27.1	25.2	28.1	26.9	28.6		
NO ₂ (µg/m ³)	25.7	24.8	28.1	27.5	25.8	23.8	27.8	27.1		
SO ₂ (μg/m ³)	18.2	19.2	21.8	22.6	21.2	20.6	23.1	21.3		
CO* (µg/m³)	512	488	493	502	508	499	516	521		

Doromotoro	Variation in A	AQ Gate No 1	Mean ± SE	NAAQ	Test Method	
Parameters	Minimum Maximum		Wean I SE	Standards: 2009	rest wethou	
PM ₁₀ (μg/m ³)	50.7	55.7	53.23±0.46	100 μg/m ³	Gravimetric	
PM _{2.5} (μg/m ³)	25.2	28.6	26.93±0.30	60 μg/m ³	Gravimetric	
$NO_2 (\mu g/m^3)$	23.8	28.1	26.33±0.48	80 μg/m ³	West and Gaeke	
SO ₂ (µg/m ³)	18.2	23.1	21.00±0.65	80 μg/m ³	Jacob & Hochheiser Modified	
CO [*] (µg/m ³)	488	521	504.88±3.55	2000 μg/m ³ (8 hr)	NDIRS method	

******END OF REPORT*****

Prepared By

Dy. Manager (Tech)



Authorized By





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009683P TR No. AETRL2021TR9683 DISPATCH NO: D2021TR0771

Date of Report Issue 04/12/2021 Sample Receiving Date 28/11/2021

Sample Registration No. AETRL2021/ESSAR/AA/GATE_02
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING CLIMATIC CONDITION

SAMPLING TIME
DATE OF ANALYSIS

AMBIENT AIR QUALITY MONITORING

GATE NO. 2

01/11/2021 TO 27/11/2021

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 02/11/2021 TO 03/12/2021

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter		DATE OF MONITORING								
	01-11-21	05-11-21	08-11-21	12-11-21	15-11-21	19-11-21	22-11-21	26-11-21		
PM ₁₀ (µg/m ³)	49.2	48.1	52.3	51.6	53.1	55.1	54.3	53.8		
PM _{2.5} (µg/m ³)	24.3	25.6	27.6	25.3	26.3	27.6	25.9	26.8		
NO ₂ (µg/m ³)	22.8	21.7	23.2	21.6	23.7	20.2	21.6	24.1		
SO ₂ (µg/m ³)	14.2	15.1	16.6	14.7	16.1	17.9	16.9	18.9		
CO* (µg/m ³))	489	472	490	431	475	466	468	496		

	Variation in A	AQ Gate No 2		NAAQ	Took Makhad	
Parameters	Minimum Maximum		Mean ± SE	Standards: 2009	Test Method	
PM ₁₀ (μg/m ³)	48.1	55.1	52.19±0.75	100 μg/m ³	Gravimetric	
PM _{2.5} (μg/m ³)	24.3	27.6	26.18±0.43	60 μg/m ³	Gravimetric	
$NO_2 (\mu g/m^3)$	20.2	24.1	22.36±0.33	80 μg/m ³	West and Gaeke	
SO ₂ (µg/m ³)	14.2	18.9	16.30±0.35	80 μg/m ³	Jacob & Hochheiser Modified	
CO* (µg/m³)	431	496	473.38±8.48	2000 μg/m ³ (8 hr)	NDIRS method	

******END OF REPORT*****

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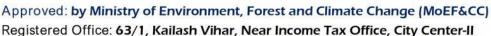
Dy. Manager (Tech)

Prepared By



Authorized By





BIQS

Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com



TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC7405-21-000009684P TR No. AETRL2021TR9684 DISPATCH NO: D2021TR0771

Date of Report Issue 04/12/2021 Sample Receiving Date 28/11/2021

Sample Registration No. AETRL2021/ESSAR/AA/GATE_03
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING

CLIMATIC CONDITION

SAMPLING TIME DATE OF ANALYSIS AMBIENT AIR QUALITY MONITORING

GATE NO. 3

01/11/2021 TO 27/11/2021

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 02/11/2021 TO 03/12/2021

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter		DATE OF MONITORING								
	01-11-21	05-11-21	08-11-21	12-11-21	15-11-21	19-11-21	22-11-21	26-11-21		
PM ₁₀ (μg/m ³)	49.2	48.1	51.9	50.8	52.2	53.6	51.2	52.9		
PM _{2.5} (µg/m ³)	24.5	25.6	27.1	26.2	27.2	28.2	25.6	26.8		
NO ₂ (µg/m ³)	21.3	22.5	25.6	23.1	20.8	26.1	27.9	27.2		
SO ₂ (µg/m ³)	15.1	16.7	15.1	18.3	17.2	16.3	17.8	17.5		
CO* (µg/m³)	466	475	463	471	490	459	462	482		

Davamatava	Variation in AA	Q Gate No 3	Maan + CF	NAAQ Standardar	Test Method	
Parameters	Minimum	Maximum	Mean ± SE	Standards: 2009	rest wethou	
PM ₁₀ (μg/m ³)	48.1	53.6	51.24±0.62	100 μg/m ³	Gravimetric	
PM _{2.5} (µg/m ³)	24.5	28.2	26.40±0.40	60 μg/m ³	Gravimetric	
$NO_2 (\mu g/m^3)$	20.8	27.9	24.31±0.67	80 μg/m ³	West and Gaeke	
SO ₂ (µg/m ³)	15.1	18.3	16.75±0.49	80 μg/m ³	Jacob & Hochheiser Modified	
CO* (µg/m³)	459 490		471.00±3.73	2000 μg/m ³ (8 hr)	NDIRS method	

******END OF REPORT****

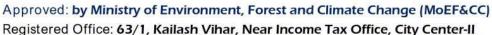
Dy. Manager (Tech)

Prepared By

THE CONTROL OF THE PROPERTY OF

Authorized By





Gwalior-474 011, M.P., India **20751-409 99716, 2232177**

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009685P TR No. AETRL2021TR9685 DISPATCH NO: D2021TR0771

Date of Report Issue 04/12/2021 Sample Receiving Date 28/11/2021

Sample Registration No. AETRL2021/ESSAR/AA/ADM Issue to M/s. ESSAR POWER M.P. LTD

VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886 Add.

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING CLIMATIC CONDITION

SAMPLING TIME DATE OF ANALYSIS AMBIENT AIR QUALITY MONITORING

Nr ADMIN

01/11/2021 TO 27/11/2021

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 02/11/2021 TO 03/12/2021

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter		DATE OF MONITORING								
	01-11-21	05-11-21	08-11-21	12-11-21	15-11-21	19-11-21	22-11-21	26-11-21		
PM ₁₀ (μg/m ³)	43.5	45.5	44.8	46.2	47.1	48.2	46.8	47.9		
PM _{2.5} (µg/m ³)	23.6	24.1	23.5	24.1	26.8	26.1	25.2	26.5		
NO ₂ (µg/m ³)	22.1	20.3	21.7	23.1	23.9	24.8	25.1	25.7		
SO ₂ (µg/m ³)	16.0	14.9	17.1	16.6	15.6	16.9	14.6	17.1		
CO [*] (µg/m ³)	463	445	485	466	481	490	478	429		

Parameters	Variation i Adn		Mean ± SE	NAAQ Standards:	Test Method	
	Minimum	Maximum		2009		
PM ₁₀ (μg/m ³)	43.5	48.2	46.25±0.48	100 μg/m ³	Gravimetric	
PM _{2.5} (μg/m ³)	23.5	26.8	24.99±0.47	60 μg/m ³	Gravimetric	
SO ₂ (μg/m ³)	20.3	25.7	23.34±0.41	80 μg/m ³	West and Gaeke	
NO ₂ (µg/m ³)	14.6	17.1	16.10±0.32	80 μg/m ³	Jacob & Hochheiser Modified	
CO* (µg/m ³)	429	490	467.13±5.63	2000 μg/m ³ (8 hr)	NDIRS method	

******END OF REPORT*****

Dy. Manager (Tech)

Prepared By



CIN: U73100MP2002PTC015352



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India
2 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009863P TR No. AETRL2021TR9863 DISPATCH NO: D2021TR0792

Date of Report Issue 05/01/2022 Sample Receiving Date 30/12/2021

Sample Registration No. AETRL2021/ESSAR/AA/GATE_01
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION AMBIENT AIR QUALITY MONITORING

LOCATION GATE NO. 1

DATE OF MONITORING 03/12/2021 TO 28/12/2021

CLIMATIC CONDITION CLEAR WEATHER

SAMPLING TIME 24 Hrs except (CO 8 hrs)
DATE OF ANALYSIS 03/12/2021 TO 04/01/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING								
	03-12-21	07-12-21	11-12-21	14-12-21	18-12-21	21-12-21	25-12-21	28-12-21	
PM ₁₀ (μg/m ³)	53.8	50.1	50.8	56.1	52.3	51.9	55.9	53.5	
PM _{2.5} (µg/m ³)	24.4	23.2	24.4	26.8	26.1	27.1	29.2	27.3	
NO ₂ (μg/m ³)	22.8	25.1	30.8	29.1	28.3	29.1	23.9	25.9	
SO ₂ (µg/m³)	17.8	20.5	23.1	25.1	23.7	25.1	18.7	22.7	
CO* (µg/m ³)	552	510	556	528	542	517	509	540	

Parameters	Variation in A	AQ Gate No 1	Mean ± SE	NAAQ	Test Method	
Parameters	Minimum	Maximum	Mean I SE	Standards: 2009	rest wethou	
PM ₁₀ (µg/m ³)	50.1	56.1	53.05±0.0.85	100 μg/m³	Gravimetric	
PM _{2.5} (μg/m ³)	23.2	29.2	26.06±0.51	60 μg/m³	Gravimetric	
NO ₂ (μg/m ³)	22.8	30.8	26.88±1.14	80 μg/m³	West and Gaeke	
SO ₂ (µg/m³)	17.8	25.1	22.09±1.02	80 μg/m ³	Jacob & Hochheiser Modified	
CO* (µg/m³)	509	556	531.75±6.66	2000 μg/m³ (8 hr)	NDIRS method	

*****END OF REPORT****

Dr. Dinesh K. Uchhariya (Technical Manager) Wallior Principles

Authorized Signatory Rajesh Jain

(TD & QC Head)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 2 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009864P TR No. AETRL2021TR9864 DISPATCH NO: D2021TR0792

Date of Report Issue 05/01/2022 Sample Receiving Date 30/12/2021

Sample Registration No. AETRL2021/ESSAR/AA/GATE_02 Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION AMBIENT AIR QUALITY MONITORING

LOCATION GATE NO. 2

DATE OF MONITORING 03/12/2021 TO 28/12/2021

CLIMATIC CONDITION CLEAR WEATHER

SAMPLING TIME 24 Hrs except (CO 8 hrs)
DATE OF ANALYSIS 03/12/2021 TO 04/01/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING									
	03-12-21	07-12-21	11-12-21	14-12-21	18-12-21	21-12-21	25-12-21	28-12-21		
PM ₁₀ (µg/m ³)	50.7	52.6	51.9	52.9	54.8	56.8	51.9	52.7		
PM _{2.5} (µg/m ³)	22.6	25.7	23.7	28.0	27.6	29.1	26.2	27.1		
NO ₂ (µg/m ³)	20.7	23.0	21.2	25.2	24.3	25.7	23.9	25.9		
SO ₂ (μg/m ³)	15.1	17.2	18.1	16.9	17.9	15.9	17.1	19.1		
CO* (µg/m³))	502	563	510	496	517	488	530	508		

D	Variation in	AAQ Gate No 2		NAAQ	To ad Madda a d
Parameters	Minimum	Maximum		Standards: 2009	Test Method
PM ₁₀ (µg/m ³)	50.7	56.8	53.04±0.53	100 μg/m ³	Gravimetric
PM _{2.5} (μg/m ³)	22.6	29.1	26.25±0.84	60 μg/m ³	Gravimetric
NO ₂ (μg/m ³)	20.7	25.9	23.74±0.68	80 μg/m ³	West and Gaeke
SO ₂ (µg/m³)	15.1	19.1	17.16±0.42	80 μg/m ³	Jacob & Hochheiser Modified
CO ⁺ (µg/m ³)	488	563	514.25±9.40	2000 μg/m ³ (8 hr)	NDIRS method

*****END OF REPORT*****

Reviewed by
Dr. Dinesh K. Uchhariya
(Technical Manager)



Rajesh Jain (TD & QC Head)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 2 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009865P TR No. AETRL2021TR9865 DISPATCH NO: D2021TR0792

Date of Report Issue 05/01/2022 Sample Receiving Date 30/12/2021

Sample Registration No. AETRL2021/ESSAR/AA/GATE_03
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION AMBIENT AIR QUALITY MONITORING

LOCATION GATE NO. 3

DATE OF MONITORING 03/12/2021 TO 28/12/2021

CLIMATIC CONDITION CLEAR WEATHER

SAMPLING TIME 24 Hrs except (CO 8 hrs)
DATE OF ANALYSIS 03/12/2021 TO 04/01/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING								
	03-12-21	07-12-21	11-12-21	14-12-21	18-12-21	21-12-21	25-12-21	28-12-21	
PM ₁₀ (μg/m ³)	51.9	50.0	53.7	56.7	55.9	54.1	56.1	55.1	
PM _{2.5} (µg/m ³)	23.8	24.9	26.8	29.3	28.8	27.9	26.3	28.1	
NO ₂ (μg/m ³)	24.7	26.1	23.7	26.9	25.7	25.9	26.1	29.4	
SO ₂ (µg/m ³)	18.6	16.6	17.9	19.1	18.2	17.1	16.9	18.9	
CO* (µg/m ³)	510	501	488	493	477	523	516	503	

Parameters	Variation in	AAQ Gate No 3		NAAQ	Test Method	
	Minimum	Maximum	Mean ± SE	Standards: 2009		
PM ₁₀ (μg/m ³)	50	56.7	54.19±0.98	100 μg/m ³	Gravimetric	
PM _{2.5} (µg/m ³)	23.8	29.3	26.99±0.84	60 μg/m ³	Gravimetric	
NO ₂ (µg/m ³)	23.7	29.4	26.06±0.44	80 μg/m ³	West and Gaeke	
SO ₂ (µg/m³)	16.6	19.1	17.91±0.33	80 μg/m ³	Jacob & Hochheiser Modified	
CO* (µg/m³)	477	523	501.38±4.44	2000 μg/m ³ (8 hr)	NDIRS method	

*****END OF REPORT****

Dr. Dinesh K. Uchhariya (Technical Manager)







Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 2 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009866P TR No. AETRL2021TR9866 DISPATCH NO: D2021TR0792

Date of Report Issue 05/01/2022 Sample Receiving Date 30/12/2021

Sample Registration No. AETRL2021/ESSAR/AA/ADM Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION AMBIENT AIR QUALITY MONITORING

LOCATION Nr ADMIN

DATE OF MONITORING 03/12/2021 TO 28/12/2021

CLIMATIC CONDITION CLEAR WEATHER

SAMPLING TIME 24 Hrs except (CO 8 hrs)
DATE OF ANALYSIS 03/12/2021 TO 04/01/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING									
	03-12-21	07-12-21	11-12-21	14-12-21	18-12-21	21-12-21	25-12-21	28-12-21		
PM_{10} ($\mu g/m^3$)	45.9	48.1	46.3	47.6	44.9	49.6	48.8	50.1		
PM _{2.5} (μg/m ³)	24.1	25.6	25.9	23.9	24.1	27.0	26.7	27.5		
NO ₂ (μg/m ³)	25.6	21.8	26.7	25.8	24.6	25.1	29.6	26.1		
SO ₂ (µg/m³)	17.9	16.1	15.8	18.1	19.1	13.8	15.3	16.7		
CO* (µg/m³)	470	456	481	491	446	478	469	469		

Parameters		in AAQ Nr min	Mean ± SE	NAAQ Standards:	Test Method
	Minimum	Maximum		2009	
PM ₁₀ (µg/m ³)	44.9	50.1	47.66±0.46	100 μg/m ³	Gravimetric
PM _{2.5} (µg/m ³)	23.9	27.5	25.60±0.34	60 μg/m ³	Gravimetric
SO ₂ (µg/m³)	21.8	29.6	25.66±0.67	80 μg/m ³	West and Gaeke
NO ₂ (µg/m ³)	13.8	19.1	16.60±0.50	80 μg/m ³	Jacob & Hochheiser Modified
CO* (µg/m ³)	446	491	470.0±6.44	2000 μg/m ³ (8 hr)	NDIRS method

*****END OF REPORT****

Dr. Dinesh K. Uchhariya (Technical Manager)

GWallor Agenda And Research

Authorized Signatory

Rajesh Jain (TD & QC Head)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

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Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC7405-22-000010235P TR No.AETRL2022TR10235 DISPATCH NO:D2022TR0809

Date of Report Issue 04/02/2022

Sample Receiving Date 05/01/2022 to 31/01/2022
Sample Registration No. AETRL2021/ESSAR/AA/GATE_01
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING CLIMATIC CONDITION

SAMPLING TIME DATE OF ANALYSIS AMBIENT AIR QUALITY MONITORING

GATE NO. 1

03/01/2022 TO 29/01/2022

CLEARWEATHER

24 Hrs except (CO 8 hrs) 03/01/2022 TO 03/02/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter		DATE OF MONITORING									
	03-01-22	07-01-22	10-01-22	14-01-22	17-01-22	21-01-22	25-01-22	28-01-22			
PM ₁₀ (μg/m ³)	52.4	56.5	55.1	58.6	54.8	49.5	53.2	55.9			
PM _{2.5} (µg/m ³)	25.1	27.5	23.8	28.1	25.9	22.8	24.7	26.9			
NO ₂ (µg/m ³)	25.2	26.5	28.2	27.9	31.2	30.9	28.4	29.2			
SO ₂ (µg/m ³)	18.2	22.1	20.8	24.5	26.1	27.2	23.9	26.1			
CO*(µg/m³)	566	547	562	572	585	559	532	554			

Parameters	Variation in A	AQ Gate No 1	Mean ± SE	NAAQ	Test Method	
Parameters	Minimum	Maximum	Weall I SE	Standards: 2009	rest wethou	
PM ₁₀ (µg/m ³)	49.5	58.6	54.50±0.81	100 μg/m ³	Gravimetric	
PM _{2.5} (µg/m ³)	22.8	28.1	25.60±0.62	60 μg/m ³	Gravimetric	
$NO_2 (\mu g/m^3)$	25.2	31.2	28.44±0.79	80 μg/m ³	West and Gaeke	
SO ₂ (µg/m ³)	18.2	27.2	23.61±1.10	80 μg/m ³	Jacob & Hochheiser Modified	
CO [*] (µg/m ³)	532	585	559.63±4.92	2000 μg/m ³ (8 hr)	NDIRS method	

******END OF REPORT*****

Dr. Dinesh K. Uchhariya (Technical Manager)



Authorized Signatory Rajesh Jain

(TD & QC Head)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

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TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-22-000010236P TR No.AETRL2022TR10236 DISPATCH NO:D2022TR0809

Date of Report Issue 04/02/2022

Sample Receiving Date 05/01/2022 to 31/01/2022
Sample Registration No. AETRL2021/ESSAR/AA/GATE_02
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING CLIMATIC CONDITION

SAMPLING TIME DATE OF ANALYSIS AMBIENT AIR QUALITY MONITORING

GATE NO. 2

03/01/2022 TO 29/01/2022

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 03/01/2022 TO 03/02/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING									
	03-01-22	07-01-22	10-01-22	14-01-22	17-01-22	21-01-22	25-01-22	28-01-22		
PM ₁₀ (µg/m ³)	52.8	54.1	50.7	55.3	56.1	54.9	56.5	57.8		
PM _{2.5} (µg/m ³)	25.1	27.8	24.2	26.5	28.1	27.6	23.7	25.6		
NO ₂ (µg/m ³)	23.5	25.4	26.1	24.8	26.4	25.8	27.2	26.1		
SO ₂ (µg/m ³)	18.5	20.4	19.8	22.1	19.0	20.2	21.6	16.7		
CO* (µg/m ³))	542	552	518	532	528	516	541	533		

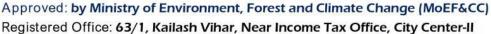
Danie was ta wa	Variation in	AAQ Gate No 2	M 1 OF	NAAQ	To ad Madda ad	
Parameters	Minimum	Maximum	Mean ± SE	Standards: 2009	Test Method	
PM ₁₀ (μg/m ³)	50.7	57.8	54.78±0.75	100 μg/m ³	Gravimetric	
PM _{2.5} (μg/m ³)	23.7	28.1	26.08±0.60	60 μg/m ³	Gravimetric	
NO ₂ (μg/m ³)	23.5	27.2	25.66±0.41	80 μg/m ³	West and Gaeke	
SO ₂ (µg/m ³)	16.7	22.1	19.79±0.50	80 μg/m ³	Jacob & Hochheiser Modified	
CO*(µg/m ³)	516	552	532.75±4.61	2000 μg/m ³ (8 hr)	NDIRS method	

******END OF REPORT*****

Dr. Dinesh K. Uchhariya (Technical Manager)







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TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

TR No. AETRL 2022 TR 10237 ULR: TC7405-22-000010237P

04/02/2022

DISPATCH NO: D2022TR0809

Date of Report Issue

05/01/2022 to 31/01/2022 Sample Receiving Date AETRL2021/ESSAR/AA/GATE_03 Sample Registration No. Issue to M/s. ESSAR POWER M.P. LTD

VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

Add.

DATE OF MONITORING CLIMATIC CONDITION

SAMPLING TIME DATE OF ANALYSIS AMBIENT AIR QUALITY MONITORING

GATE NO. 3

03/01/2022 TO 29/01/2022

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 03/01/2022 TO 03/02/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING									
	03-01-22	07-01-22	10-01-22	14-01-22	17-01-22	21-01-22	25-01-22	28-01-22		
PM ₁₀ (μg/m ³)	53.4	55.1	53.8	54.1	52.1	56.8	52.6	54.1		
PM _{2.5} (µg/m ³)	24.1	25.2	24.2	26.7	27.4	28.1	27.2	27.9		
NO ₂ (µg/m ³)	25.4	28.4	27.2	25.1	27.9	26.2	24.8	25.1		
SO ₂ (µg/m ³)	17.8	15.7	20.4	16.9	19.7	19.1	20.7	18.3		
CO [*] (µg/m ³)	528	542	516	520	532	518	563	511		

Parameters	Variation in A	AQ Gate No 3	Maan + SE	NAAQ Standardar	Toot Mothod	
	Minimum	Maximum	Mean ± SE	Standards: 2009	Test Method	
PM ₁₀ (μg/m ³)	52.1	56.8	54.00±0.39	100 μg/m ³	Gravimetric	
PM _{2.5} (µg/m ³)	24.1	28.1	26.35±0.52	60 μg/m ³	Gravimetric	
$NO_2 (\mu g/m^3)$	24.8	28.4	26.26±0.51	80 μg/m ³	West and Gaeke	
SO ₂ (µg/m ³)	15.7	20.7	18.58±0.69	80 μg/m ³	Jacob & Hochheiser Modified	
CO [*] (µg/m ³)	511	563	528.75±3.62	2000 μg/m ³ (8 hr)	NDIRS method	

******END OF REPORT****

Dr. Dinesh K. Uchhariya (Technical Manager)



Authorized Signatory

Rajesh Jain (TD & QC Head)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

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TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-22-000010238P TR No.AETRL2022TR10238 DISPATCH NO:D2022TR0809

Date of Report Issue 04/02/2022

Sample Receiving Date 05/01/2022 to 31/01/2022 Sample Registration No. AETRL2021/ESSAR/AA/ADM Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

SAMPLE DESCRIPTION

LOCATION

DATE OF MONITORING CLIMATIC CONDITION

SAMPLING TIME
DATE OF ANALYSIS

AMBIENT AIR QUALITY MONITORING

Nr ADMIN

03/01/2022 TO 29/01/2022

CLEAR WEATHER

24 Hrs except (CO 8 hrs) 03/01/2022 TO 03/02/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING									
	03-01-22	07-01-22	10-01-22	14-01-22	17-01-22	21-01-22	25-01-22	28-01-22		
PM ₁₀ (μg/m ³)	48.1	50.2	49.2	52.7	51.3	50.9	53.1	52.6		
PM _{2.5} (µg/m ³)	22.9	27.1	24.2	26.2	26.0	25.2	27.5	28.1		
NO ₂ (µg/m ³)	24.2	26.7	21.6	23.7	25.1	21.8	24.9	25.8		
SO ₂ (µg/m ³)	18.2	17.6	19.1	15.8	18.9	16.1	14.8	15.3		
CO*(µg/m³)	488	452	496	502	493	460	445	452		

Parameters		in AAQ Nr Imin	Mean ± SE	NAAQ Standards:	Test Method	
	Minimum	Maximum		2009		
PM ₁₀ (μg/m ³)	48.1	53.1	51.01±0.63	100 μg/m ³	Gravimetric	
PM _{2.5} (μg/m ³)	22.9	28.1	25.90±0.60	60 μg/m ³	Gravimetric	
SO ₂ (μg/m ³)	21.6	26.7	24.23±0.66	80 μg/m ³	West and Gaeke	
NO ₂ (µg/m ³)	14.8	19.1	16.98±0.47	80 μg/m ³	Jacob & Hochheiser Modified	
CO*(µg/m ³)	445	502	473.50±6.99	2000 μg/m ³ (8 hr)	NDIRS method	

******END OF REPORT*****

Dr. Dinesh K. Uchhariya (Technical Manager)



Authorized Signatory Rajesh Jain

(TD & QC Head)







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TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010467P TR No.AETRL2022TR10467 DISPATCH No:D2022TR0820

Date of Report Issue 07/03/2022

Sample Receiving Date 02/02/2022 to 26/02/2022
Sample Registration No. AETRL2022ESSAR/AA/GATE_01
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

Sample Description Ambient Air Quality Monitoring

Location Gate NO. 1

Date of Monitoring 01/02/2022 TO 26/02/2022

Climatic Condition Clear Weather

Sampling Time 24 Hrs except (CO 8 hrs)
Date of Analysis 01/02/2022 TO 05/03/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING									
	01-02-22	04-02-22	07-02-22	11-02-22	14-02-22	18-02-22	21-02-22	25-02-22		
$PM_{10}(\mu g/m^3)$	55.1	57.1	58.3	56.7	59.1	54.8	57.9	58.7		
$PM_{2.5}(\mu g/m^3)$	23.8	26.7	28.3	25.2	30.1	23.7	27.1	25.9		
NO ₂ (μg/m ³)	27.2	28.1	24.8	29.1	30.7	33.1	31.7	33.9		
SO ₂ (μg/m ³)	20.0	18.3	21.2	25.0	23.4	28.1	20.9	25.3		
CO [*] (µg/m ³)	571	560	589	531	577	569	541	555		

D	Variation in A	AAQ Gate No 1	NA I CF	NAAQ Standards:	Total Markle and	
Parameters	Minimum Maximum		Mean ± SE	2009	Test Method	
$PM_{10} (\mu g/m^3)$	54.8	59.1	57.21±0.54	100 μg/m³	Gravimetric	
$PM_{2.5} (\mu g/m^3)$	23.7	30.1	26.35±0.88	60 μg/m ³	Gravimetric	
NO ₂ (μg/m ³)	24.8	33.9	29.83±0.78	80 μg/m ³	West and Gaeke	
SO ₂ (μg/m ³)	18.3	28.1	22.78±0.94	80 μg/m³	Jacob & Hochheiser Modified	
CO [*] (μg/m ³)	531	589	561.63±7.78	2000 μg/m³ (8 hr)	NDIRS method	

******END OF REPORT*****

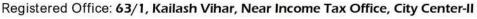
Reviewed by
Dr. Dinesh K. Uchhariya
(Technical Manager)



Rajesh Jain (TD & QC Head)







Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010468P TR No.AETRL2022TR10468 DISPATCH No:D2022TR0820

Date of Report Issue 07/03/2022

Sample Receiving Date 02/02/2022 to 26/02/2022
Sample Registration No. AETRL2022ESSAR/AA/GATE_02
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

Sample Description Ambient Air Quality Monitoring

Location Gate NO. 2

Date of Monitoring 01/02/2022 TO 26/02/2022

Climatic Condition Clear Weather

Sampling Time 24 Hrs except (CO 8 hrs)
Date of Analysis 01/02/2022 TO 05/03/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING									
	01-02-22	04-02-22	07-02-22	11-02-22	14-02-22	18-02-22	21-02-22	25-02-22		
$PM_{10}(\mu g/m^3)$	50.1	53.8	56.1	58.6	57.8	59.1	56.7	58.0		
$PM_{2.5}(\mu g/m^3)$	25.6	28.1	26.8	27.1	26.9	29.0	28.1	28.9		
NO ₂ (μg/m ³)	21.8	23.1	25.6	22.7	25.1	23.2	25.1	27.0		
SO ₂ (μg/m³)	19.2	16.7	22.7	20.3	23.3	21.8	23.2	22.3		
CO [*] (μg/m ³))	588	533	582	547	560	578	580	562		

Davamatava	Variation in A	AQ Gate No 2	Mean ± SE	NAAQ	Test Method	
Parameters	Minimum	Maximum	iviean ± SE	Standards: 2009	rest Method	
$PM_{10} (\mu g/m^3)$	50.1	59.1	56.28±1.1	100 μg/m³	Gravimetric	
$PM_{2.5} (\mu g/m^3)$	25.6	29.0	27.56±0.32	60 μg/m ³	Gravimetric	
NO_2 (µg/m ³)	21.8	27.0	24.20±0.57	80 μg/m ³	West and Gaeke	
SO ₂ (μg/m ³)	16.7	23.3	21.19±0.95	80 μg/m³	Jacob & Hochheiser Modified	
CO [*] (μg/m ³)	533	588	566.25±8.18	2000 μg/m³ (8 hr)	NDIRS method	

******END OF REPORT*****

Dr. Dinesh K. Uchhariya (Technical Manager)



Authorized Signatory Rajesh Jain

(TD & QC Head)







Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010469P TR No.AETRL2022TR10469 DISPATCH No:D2022TR0820

Date of Report Issue 07/03/2022

Sample Receiving Date 02/02/2022 to 26/02/2022
Sample Registration No. AETRL2022ESSAR/AA/GATE_03
Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

Sample Description Ambient Air Quality Monitoring

Location Gate NO. 3

Date of Monitoring 01/02/2022 TO 26/02/2022

Climatic Condition Clear Weather

Sampling Time 24 Hrs except (CO 8 hrs)
Date of Analysis 01/02/2022 TO 05/03/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING								
	01-02-22	04-02-22	07-02-22	11-02-22	14-02-22	18-02-22	21-02-22	25-02-22	
$PM_{10}(\mu g/m^3)$	55.2	57.3	53.8	56.6	58.3	54.1	53.9	56.3	
$PM_{2.5}(\mu g/m^3)$	23.8	24.6	21.9	25.1	26.1	27.0	25.8	24.7	
$NO_2(\mu g/m^3)$	27.5	29.1	25.9	28.6	25.2	29.1	27.2	28.1	
SO ₂ (μg/m³)	20.7	19.8	21.2	19.8	17.9	22.6	21.9	19.1	
CO [*] (μg/m ³)	518	536	528	560	544	558	528	530	

Parameters	Variation in AA	Q Gate No 3	N4 CF	NAAQ	Total Backle and	
	Minimum	Maximum	Mean ± SE	Standards: 2009	Test Method	
PM ₁₀ (μg/m ³)	53.8	58.3	55.69±0.63	100 μg/m³	Gravimetric	
$PM_{2.5} (\mu g/m^3)$	21.9	27	24.88±0.56	60 μg/m ³	Gravimetric	
NO_2 (µg/m ³)	25.2	29.1	27.59±0.60	80 μg/m³	West and Gaeke	
SO ₂ (μg/m³)	17.9	22.6	20.38±0.45	80 μg/m³	Jacob & Hochheiser Modified	
CO* (µg/m³)	518	560	537.75±5.64	2000 μg/m³ (8 hr)	NDIRS method	

******END OF REPORT*****

Reviewed by
Dr. Dinesh K. Uchhariya
(Technical Manager)

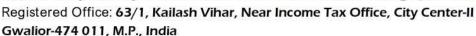


Authorized Signatory
Rajesh Jain

(TD & QC Head)







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TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010470P TR No.AETRL2022TR10470 DISPATCH No:D2022TR0820

Date of Report Issue 07/03/2022

Sample Receiving Date 02/02/2022 to 26/02/2022 Sample Registration No. AETRL2022ESSAR/AA/ADM Issue to M/s. ESSAR POWER M.P. LTD

Add. VILL. BANDORA KARSUALAL TAHSIL WAIDHAN 486886

MADHYA PRADESH

Sample Description Ambient Air Quality Monitoring

Location Nr Admin

Date of Monitoring 01/02/2022 TO 26/02/2022

Climatic Condition Clear Weather

Sampling Time 24 Hrs except (CO 8 hrs)
Date of Analysis 01/02/2022 TO 05/03/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING									
	01-02-22	04-02-22	07-02-22	11-02-22	14-02-22	18-02-22	21-02-22	25-02-22		
$PM_{10}(\mu g/m^3)$	50.3	52.1	53.8	55.1	53.9	55.1	54.6	55.9		
$PM_{2.5}(\mu g/m^3)$	23.2	24.9	25.1	25.9	22.2	23.1	26.1	25.7		
$NO_2(\mu g/m^3)$	22.1	26.2	23.4	25.0	21.5	26.7	28.1	27.2		
$SO_2(\mu g/m^3)$	17.8	20.1	20.9	22.1	19.2	18.6	18.0	17.0		
CO [*] (μg/m ³)	428	436	418	448	452	469	471	436		

Parameters		in AAQ Nr min	Mean ± SE	NAAQ	Test Method
	Minimum	Maximum		Standards: 2009	
PM ₁₀ (μg/m ³)	50.3	55.9	53.85±0.66	100 μg/m ³	Gravimetric
PM _{2.5} (μg/m ³)	22.2	26.1	24.53±0.54	60 μg/m ³	Gravimetric
$SO_2(\mu g/m^3)$	21.5	28.1	25.03±0.69	80 μg/m ³	West and Gaeke
NO ₂ (μg/m ³)	17	22.1	19.21±0.58	80 μg/m³	Jacob & Hochheiser Modified
CO*(µg/m³)	418	471	444.75±4.90	2000 μg/m³ (8 hr)	NDIRS method

******END OF REPORT*****

Reviewed by
Dr. Dinesh K. Uchhariya
(Technical Manager)



Authorized Signatory

Rajesh Jain (TD & QC Head)





Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

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TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010694P TR No.AETRL2022TR10694 DISPATCH No:D2022TR0836

Date of Report Issue 05/04/2022

Sample Receiving Date 01/03/2022 to 30/03/2022
Sample Registration No. AETRL2022MEL/AA/G01
Issue to M/s. Mahan Energen Limited

Add. Vill. Bandora Karsualal Tahsil Waidhan 486886

Madhya Pradesh

Sample Description Ambient Air Quality Monitoring

Location Gate No. 1

Date of Monitoring 01/03/2022 To 30/03/2022

Climatic Condition Clear Weather

Sampling Time 24 Hrs except (CO 8 hrs)
Date of Analysis 01/03/2022 To 04/04/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING									
	01-03-22	04-03-22	08-03-22	11-03-22	15-03-22	22-03-22	25-03-22	29-03-22		
$PM_{10}(\mu g/m^3)$	54.5	57.2	60.1	58.3	61.2	56.5	62.1	57.9		
$PM_{2.5}(\mu g/m^3)$	24.2	25.3	31.1	29.4	32.0	27.1	33.2	28.2		
NO ₂ (μg/m ³)	28.1	30.2	29.5	31.2	33.2	30.2	29.2	32.3		
SO ₂ (μg/m ³)	22.3	23.8	25.0	27.3	26.1	27.6	25.1	26.2		
CO [*] (µg/m ³)	586	547	577	556	582	563	570	566		

Davisonatava	Variation in A	AQ Gate No 1	Manual CE	NAAQ Standards:	Test Method	
Parameters	Minimum	Maximum	Mean ± SE	2009		
PM ₁₀ (μg/m ³)	54.5	62.1	58.48±0.92	100 μg/m³	Gravimetric	
$PM_{2.5} (\mu g/m^3)$	24.2	33.2	28.81±1.23	60 μg/m³	Gravimetric	
$NO_2 (\mu g/m^3)$	28.1	33.2	30.49±0.68	80 μg/m ³	West and Gaeke	
SO ₂ (μg/m ³)	22.3	27.6	25.43±0.69	80 μg/m³	Jacob & Hochheiser Modified	
CO* (µg/m³)	547	586	568.38±6.05	2000 μg/m³ (8 hr)	NDIRS method	

******END OF REPORT****

Reviewed by

Dr. Dinesh K. Uchhariya

(Technical Manager)









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TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010695P TR No.AETRL2022TR10695 DISPATCH No:D2022TR0836

Date of Report Issue 05/04/2022

Sample Receiving Date 01/03/2022 to 30/03/2022
Sample Registration No. AETRL2022MEL/AA/G02
Issue to M/s. Mahan Energen Limited

Add. Vill. Bandora Karsualal Tahsil Waidhan 486886

Madhya Pradesh

Sample Description Ambient Air Quality Monitoring

Location Gate No. 2

Date of Monitoring 01/03/2022 To 29/03/2022

Climatic Condition Clear Weather

Sampling Time 24 Hrs except (CO 8 hrs)
Date of Analysis 01/03/2022 To 04/04/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING							
	01-03-22	04-03-22	08-03-22	11-03-22	15-03-22	22-03-22	25-03-22	29-03-22
$PM_{10}(\mu g/m^3)$	54.5	57.2	56.2	55.9	58.2	61.2	58.2	59.8
$PM_{2.5}(\mu g/m^3)$	24.3	25.5	27.2	23.5	25.1	28.8	26.6	27.2
NO ₂ (μg/m ³)	26.1	25.2	28.7	22.9	28.7	25.9	28.6	29.3
SO ₂ (μg/m³)	22.1	20.8	20.1	19.5	27.1	26.1	24.8	26.2
CO [*] (μg/m ³))	591	558	576	566	588	596	590	581

Parameters	Variation in A	AQ Gate No 2	Mean ± SE	NAAQ	Test Method	
	Minimum Maximum		iviean ± 3E	Standards: 2009	rest Method	
$PM_{10} (\mu g/m^3)$	54.5	61.2	57.65±0.49	100 μg/m³	Gravimetric	
$PM_{2.5} (\mu g/m^3)$	23.5	28.8	26.03±0.49	60 μg/m³	Gravimetric	
NO_2 (µg/m ³)	22.9	29.3	26.93±0.87	80 μg/m³	West and Gaeke	
SO ₂ (μg/m³)	19.5	27.1	23.34±1.08	80 μg/m ³	Jacob & Hochheiser Modified	
CO*(µg/m³)	558	596	580.75±4.97	2000 μg/m³ (8 hr)	NDIRS method	

*****END OF REPORT****

Reviewed by

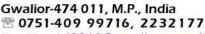
Dr. Dinesh K. Uchhariya
(Technical Manager)











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TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010696P TR No.AETRL2022TR10696 DISPATCH No:D2022TR0836

Date of Report Issue 05/04/2022

Sample Receiving Date 01/03/2022 to 30/03/2022
Sample Registration No. AETRL2022MEL/AA/G03
Issue to M/s. Mahan Energen Limited

Add. Vill. Bandora Karsualal Tahsil Waidhan 486886

Madhya Pradesh

Sample Description Ambient Air Quality Monitoring

Location Gate No. 3

Date of Monitoring 01/03/2022 To 29/03/2022

Climatic Condition Clear Weather

Sampling Time 24 Hrs except (CO 8 hrs)
Date of Analysis 01/03/2022 To 04/04/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING							
	01-03-22	04-03-22	08-03-22	11-03-22	15-03-22	22-03-22	25-03-22	29-03-22
$PM_{10}(\mu g/m^3)$	54.8	59.4	55.3	58.1	57.6	55.8	58.9	60.1
$PM_{2.5}(\mu g/m^3)$	26.2	26.0	24.5	27.6	28.2	26.3	26.3	29.3
$NO_2(\mu g/m^3)$	24.3	28.6	26.2	27.8	29.1	27.6	25.1	27.7
$SO_2(\mu g/m^3)$	19.5	20.1	23.8	23.2	26.2	25.1	23.5	23.8
CO* (μg/m³)	526	578	545	523	571	555	559	582

Davamatava	Variation in AA	Q Gate No 3	Macra + CF	NAAQ	Took Makhad	
Parameters	Minimum Maximum Mean ± SE	Standards: 2009	Test Method			
PM ₁₀ (μg/m ³)	54.8	60.1	57.50±0.69	100 μg/m ³	Gravimetric	
$PM_{2.5} (\mu g/m^3)$	24.5	29.3	26.80±0.51	60 μg/m ³	Gravimetric	
NO_2 (µg/m ³)	24.3	29.1	27.05±0.69	80 μg/m³	West and Gaeke	
SO ₂ (μg/m ³)	19.5	26.2	23.15±0.98	80 μg/m³	Jacob & Hochheiser Modified	
CO* (µg/m³)	523	582	554.88±8.92	2000 μg/m³ (8 hr)	NDIRS method	

******END OF REPORT*****

Dr. Dinesh K. Uchhariya (Technical Manager)







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TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010697P TR No.AETRL2022TR10697 DISPATCH No:D2022TR0836

Date of Report Issue 05/04/2022

Sample Receiving Date 01/03/2022 to 30/03/2022
Sample Registration No. AETRL2022MEL/AA/ADM04
Issue to M/s. Mahan Energen Limited

Add. Vill. Bandora Karsualal Tahsil Waidhan 486886

Madhya Pradesh

Sample Description Ambient Air Quality Monitoring

Location Nr Admin

Date of Monitoring 01/03/2022 To 29/03/2022

Climatic Condition Clear Weather

Sampling Time 24 Hrs except (CO 8 hrs)
Date of Analysis 01/03/2022 To 04/04/2022

WEEKLY ANALYSIS REPORT OF AMBIENT AIR QUALITY MONITORING

Parameter	DATE OF MONITORING							
	01-03-22	04-03-22	08-03-22	11-03-22	15-03-22	22-03-22	25-03-22	29-03-22
$PM_{10}(\mu g/m^3)$	53.5	55.6	57.1	56.6	56.2	58.2	57.2	53.2
$PM_{2.5}(\mu g/m^3)$	24.6	25.1	26.2	25.9	26.6	27.6	28.6	26.8
$NO_2(\mu g/m^3)$	28.8	25.9	26.1	23.8	27.9	25.9	26.9	26.0
$SO_2(\mu g/m^3)$	21.6	23.5	25.0	20.8	23.8	21.9	23.6	25.1
CO [*] (μg/m ³)	478	502	489	468	488	512	518	530

Parameters		in AAQ Nr min	Mean ± SE	NAAQ	Test Method	
	Minimum	Maximum		Standards: 2009		
PM ₁₀ (μg/m ³)	53.2	58.2	55.95±0.49	100 μg/m ³	Gravimetric	
PM _{2.5} (μg/m ³)	24.6	28.6	26.43±0.29	60 μg/m ³	Gravimetric	
$SO_2(\mu g/m^3)$	23.8	28.8	26.41±0.69	80 μg/m ³	West and Gaeke	
NO ₂ (μg/m ³)	20.8	25.1	23.16±0.60	80 μg/m³	Jacob & Hochheiser Modified	
CO [*] (μg/m ³)	468	530	498.13±4.51	2000 μg/m³ (8 hr)	NDIRS method	

*****END OF REPORT***

Reviewed by

Dr. Dinesh K. Uchhariya
(Technical Manager)





MAHAN ENERGEN LIMITED Continuous Ambient Air Quality Monitoring Results

LOCATION- NEAR ADMIN BUIDLING (Unit-µg/m3)

Month	PM10	PM2.5	SO2	NOX
Oct-2021	63.92	30.92	9.01	14.32
Nov-2021	65.59	29.86	8.11	13.98
Dec-2021	65.49	29.90	10.09	12.87
Jan-2022	65.12	30.81	11.91	13.98
Feb-2022	65.67	31.53	10.09	15.09
Mar-2022	65.33	30.80	12.09	14.98

LOCATION- NEAR SWITCH YARD (Unit-µg/m3)

Month	PM10	PM2.5	SO2	NOX
Oct-2021	70.53	33.46	11.21	12.54
Nov-2021	71.09	28.09	13.09	13.09
Dec-2021	69.09	31.98	15.63	13.09
Jan-2021	63.49	34.54	11.98	12.65
Feb-2021	56.62	34.98	9.87	12.54
Mar-2021	60.76	33.5	10.98	13.89

LOCATION- NEAR GATE NO. 03 (Unit-µg/m3)

Month	PM10	PM2.5	SO2	NOX
Oct-2021	53.49	23.42	7.09	13.98
Nov-2021	37.79	28.11	8.45	12.17
Dec-2021	52.79	55.68	8.08	13.98
Jan-2021	41.51	23.32	9.87	11.98
Feb-2021	50.7	25.13	11.09	13.09
Mar-2021	53.49	23.42	12.18	14.90



MAHAN ENERGEN LIMITED

LOCATION- NEAR GATE NO. 02 (Unit-µg/m3)

MONTH	PM10	PM2.5	SO2	NOX
Oct-2021	71.87	26.09	8.23	14.09
Nov-2021	64.43	30.98	9.76	15.06
Dec-2021	62.09	25.76	9.09	13.21
Jan-2021	53.56	25.31	11.21	15.09
Feb-2021	54.22	26.54	13.98	16.43
Mar-2021	53.34	25.92	13.09	13.09

Note-

Essar Power (MP) Limited (EPMPL) was admitted into the Corporate Insolvency Resolution Process (CIRP) vide the order dated 29th September 2020 passed by Hon'ble NCLT Principal Bench New Delhi (NCLT) and Mr. Ashish Chhawchharia was appointed as Resolution Professional. Further vide its order dated 01st November 2021, the Hon'ble NCLT pronounced approval of the Resolution Plan submitted by Adani Power Limited (APL), thereby concluding the CIRP of the Company.

APL has implemented the Approved Resolution Plan and acquired 100% of paid-up share capital and management control of EPMPL on 16.03.2022. "Mahan Energen Limited" is wholly owned subsidiary of Adani Power Limited and incorporated under Companies (Incorporation) Rules, 2014 date 25.03.2022.



CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 90751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009112F TR No. AETRL2021TR9112 DISPATCH NO: D2021TR0724

DATE OF REPORT ISSUE 08/11/2021 SAMPLE RECEIVING DATE 27/10/2021

SAMPLE REGISTRATION NO. AETRL2021/ESSAR/ST/1636 ISSUE TO M/s. ESSAR POWER M.P. LTD.

ADD. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

TEST REPORT OF FLUE GAS EMISSIONS

LOCATION UNIT # 1
DATE OF MONITORING 27/10/2021

SAMPLE COLLECTED BY Mr. OMPRAKASH AND NARENDRA SAKET

SOURCE OF EMISSION EXHAUST EMISSION SAMPLING METHOD IS:11255 (PART-3)

PRIMARY DATA OF STACK

MATERIAL OF CONSTRUCTION M.S. STACK ATTACHED TO **BOILER** STACK HEIGHT GROUND LEVEL 275 mtr MONITORING PLATFORM HEIGHT FROM GROUND LEVEL 105 mtr STACK TOP **CIRCULAR** INSIDE DIAMETER OF STACK AT SAMPLING POINT 6.9 mtr CROSS SECTIONAL AREA OF STACK 37.37 m² AMBIENT AIR TEMPERATURE 33.2.0°C FLUE GAS TEMPERATURE 138.2°C EXIT VELOCITY OF GAS 26.87 ms⁻¹ FLOW RATE OF GAS AT STANDARD TEMP. & PRESSURE 797.2 N m³ s⁻¹ EMISSION RATE AT STACK TEMP. & PRESSURE 2251028 m³ h⁻¹ EMISSION RATE AT STANDARD TEMP, & PRESSURE 1981607 N m³ h⁻¹

TEST RESULTS

S.No.	TEST PARAMETERS	METHOD ADOPTED	POLLUTANT CONCENTRATION	STANDARDS LIMIT (mg/Nm³)
1.	Particulate Matter (PM)	IS:11255 (Part-1)	43.9 mg/Nm ³	50
2.	Sulphur Dioxide (SO ₂)	IS:11255 (Part-2)	782.8 mg/Nm ³	200 [*]
3.	Nitrogen Oxides (NO _x)	IS:11255 (Part-7)	368.6 mg/Nm ³	450 [*]
4.	Carbon Monoxide [*] (CO)	Orsat Apparatus	1.63 ppm	-
5.	Mercury as Hg	EPA Method 29	BDL mg/Nm ³	0.03

y. Manager (Tech)



Manager





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India **2000** 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009692F TR No. AETRL2021TR9692 DISPATCH NO: D2021TR0771

DATE OF REPORT ISSUE 04/12/2021 SAMPLE RECEIVING DATE 26/11/2021

SAMPLE REGISTRATION NO. AETRL2021/ESSAR/ST/1772 **ISSUE TO** M/s. ESSAR POWER M.P. LTD.

ADD. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

TEST REPORT OF FLUE GAS EMISSIONS

LOCATION UNIT#2 DATE OF MONITORING 26/11/2021

SAMPLE COLLECTED BY Mr. OMPRAKASH AND NARENDRA SAKET

SOURCE OF EMISSION **EXHAUST EMISSION** SAMPLING METHOD IS:11255 (PART-3)

PRIMARY DATA OF STACK

MATERIAL OF CONSTRUCTION	M.S.
STACK ATTACHED TO	BOILER
STACK HEIGHT GROUND LEVEL	275 mtr
MONITORING PLATFORM HEIGHT FROM GROUND LEVEL	105 mtr
STACK TOP	CIRCULAR
INSIDE DIAMETER OF STACK AT SAMPLING POINT	6.9 mtr
CROSS SECTIONAL AREA OF STACK	37.37 m ²
AMBIENT AIR TEMPERATURE	31.0.0°C
FLUE GAS TEMPERATURE	133.5°C
EXIT VELOCITY OF GAS	27.63 ms ⁻¹
FLOW RATE OF GAS AT STANDARD TEMP. & PRESSURE	782.8 N m ³ s ⁻¹
EMISSION RATE AT STACK TEMP. & PRESSURE	2234222 m ³ h ⁻¹
EMISSION RATE AT STANDARD TEMP. & PRESSURE	1972918N m ³ h ⁻¹

TEST RESULTS

S.No.	TEST PARAMETERS	METHOD ADOPTED	POLLUTANT CONCENTRATION	STANDARDS LIMIT (mg/Nm³)
1.	Particulate Matter (PM)	IS:11255 (Part-1)	46.1 mg/Nm ³	50
2.	Sulphur Dioxide (SO ₂)	IS:11255 (Part-2)	841.1 mg/Nm ³	200 [*]
3.	Nitrogen Oxides (NO _x)	IS:11255 (Part-7)	396.7 mg/Nm ³	450 [°]
4.	Carbon Monoxide* (CO)	Orsat Apparatus	1.78 ppm	-
5.	Mercury as Hg	EPA Method 29	BDL mg/Nm ³	0.03

Prepared By

Dy. Manager (Tech)



Manager





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India **8 0751-409 99716, 2232177**

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009873F TR No. AETRL2021TR9873 DISPATCH NO: D2021TR0792

DATE OF REPORT ISSUE 05/01/2022 **SAMPLE RECEIVING DATE** 23/12/2021

SAMPLE REGISTRATION NO. AETRL2021/ESSAR/ST/1812 **ISSUE TO** M/s. ESSAR POWER M.P. LTD.

ADD. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

TEST REPORT OF FLUE GAS EMISSIONS

LOCATION UNIT # 1 DATE OF MONITORING 23/12/2021

SAMPLE COLLECTED BY Mr. OMPRAKASH AND NARENDRA SAKET

SOURCE OF EMISSION **EXHAUST EMISSION** SAMPLING METHOD IS:11255 (PART-3)

PRIMARY DATA OF STACK

MATERIAL OF CONSTRUCTION	M.S.
STACK ATTACHED TO	BOILER
STACK HEIGHT GROUND LEVEL	275 mtr
MONITORING PLATFORM HEIGHT FROM GROUND LEVEL	105 mtr
STACK TOP	CIRCULAR
INSIDE DIAMETER OF STACK AT SAMPLING POINT	6.9 mtr
CROSS SECTIONAL AREA OF STACK	37.37 m ²
AMBIENT AIR TEMPERATURE	25.0°C
FLUE GAS TEMPERATURE	130.7 °C
EXIT VELOCITY OF GAS	29.12 ms ⁻¹
FLOW RATE OF GAS AT STANDARD TEMP. & PRESSURE	791.8 N m ³ s ⁻¹
EMISSION RATE AT STACK TEMP. & PRESSURE	2271208 m ³ h ⁻¹
EMISSION RATE AT STANDARD TEMP. & PRESSURE	1998196 N m ³ h ⁻¹

TEST RESULTS

S.No.	TEST PARAMETERS	METHOD ADOPTED	POLLUTANT CONCENTRATION	STANDARDS LIMIT (mg/Nm³)
1.	Particulate Matter (PM)	IS:11255 (Part-1)	47.8 mg/Nm ³	50
2.	Sulphur Dioxide (SO ₂)	IS:11255 (Part-2)	779.8 mg/Nm ³	200*
3.	Nitrogen Oxides (NO _x)	IS:11255 (Part-7)	408.3 mg/Nm ³	450*
4.	Carbon Monoxide* (CO)	Orsat Apparatus	1.68 ppm	-
5.	Mercury as Hg	EPA Method 29	BDL mg/Nm ³	0.03

(Technical Manager)



Authorized Signatory Raiesh Jain

(TD & QC Head)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-22-000010244F TR No.AETRL2022TR10244 DISPATCH NO:D2022TR0809

DATE OF REPORT ISSUE 04/02/2022 SAMPLE RECEIVING DATE 25/01/2022

SAMPLE REGISTRATION NO. AETRL2022/ESSAR/ST/1921 ISSUE TO M/s. ESSAR POWER M.P. LTD.

ADD. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

TEST REPORT OF FLUE GAS EMISSIONS

LOCATION UNIT # 1
DATE OF MONITORING 22/01/2022

SAMPLE COLLECTED BY Mr. OMPRAKASH AND VIRENDRA KHADIYA

SOURCE OF EMISSION EXHAUST EMISSION SAMPLING METHOD IS:11255 (PART-3)

PRIMARYDATAOF STACK

MATERIAL OF CONSTRUCTION M.S. STACK ATTACHED TO **BOILER** STACK HEIGHT GROUND LEVEL 275 mtr MONITORING PLATFORM HEIGHT FROM GROUND LEVEL 105 mtr STACK TOP **CIRCULAR** INSIDE DIAMETER OF STACK AT SAMPLING POINT 6.9 mtr 37.37 m² CROSS SECTIONAL AREA OF STACK AMBIENT AIR TEMPERATURE 18.5°C FLUE GAS TEMPERATURE 125.2°C EXIT VELOCITY OF GAS 27.22ms⁻¹ FLOW RATE OF GAS AT STANDARD TEMP. & PRESSURE 731.1 N m³ s⁻¹ EMISSION RATE AT STACK TEMP. & PRESSURE 2631960 m³ h⁻¹ EMISSION RATE AT STANDARD TEMP. & PRESSURE 21882732 N m³ h⁻¹

TEST RESULTS

S.No.	TEST PARAMETERS	METHOD ADOPTED	POLLUTANT CONCENTRATION	STANDARDS LIMIT (mg/Nm³)
1.	Particulate Matter (PM)	IS:11255 (Part-1)	45.1 mg/Nm ³	50
2.	Sulphur Dioxide (SO ₂)	IS:11255 (Part-2)	886.2 mg/Nm ³	200 [*]
3.	Nitrogen Oxides (NO _x)	IS:11255 (Part-7)	396.7 mg/Nm ³	450 [°]
4.	Carbon Monoxide* (CO)	Orsat Apparatus	1.96 ppm	-
5.	Mercuryas Hg	EPA Method 29	BDL mg/Nm ³	0.03

Dr. Dinesh K. Uchhariya (Technical Manager)



Authorized Signatory Rajesh Jain

(TD & QC Head)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

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TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC740522000010477F TR No.AETRL2022TR10477 DISPATCH No:D2022TR0820

Date Of Report Issue 07/03/2022 Sample Receiving Date 05/02/2022

Sample Registration No. AETRL2022ESSARST2188
Issue To M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

TEST REPORT OF FLUE GAS EMISSIONS

Location Unit # 1
Date of Monitoring 04/02/2022

Sample Collected By Mr. Omprakash and Narendra

Source of Emission Exhaust Emission
Sampling Method IS:11255 (Part-3)

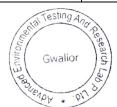
Material of Construction M.S. Stack Attached to Boiler Stack Height Ground Level 275 mtr Monitoring Platform Height From Ground Level 105 mtr Circular Inside Diameter of Stack at Sampling Point 6.9 mtr 37.37 m² Cross Sectional Area of Stack 26.1°C **Ambient Air Temperature** 129.7 °C Flue Gas Temperature 29.11ms⁻¹ Exit Velocity of Gas 751.7 N m³ s⁻¹ Flow Rate of Gas At Standard Temp. & Pressure Emission Rate at Stack Temp. & Pressure 2706120 m³ h⁻¹

TEST RESULTS

S.No.	Test Parameters	Method Adopted	Pollutant Concentration	Standards Limit (mg/Nm³)
1.	Particulate Matter (PM)	IS:11255 (Part-1)	47.2 mg/Nm ³	50
2.	Sulphur Dioxide (SO ₂)	IS:11255 (Part-2)	780.1 mg/Nm ³	200*
3.	Nitrogen Oxides (NO _x)	IS:11255 (Part-7)	362.1 mg/Nm ³	450 [*]
4.	Carbon Monoxide* (CO)	Orsat Apparatus	1.79 ppm	-
5.	Mercuryas Hg	EPA Method 29	BDL mg/Nm ³	0.03

Dr. Dinesh K. Uchhariya (Technical Manager)

Emission Rate at Standard Temp. & Pressure

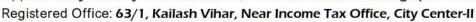


Authorized Signatory
Rajesh Jain
(TD & QC Head)

25872289 N m³ h⁻¹







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TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC740522000010478F TR No.AETRL2022TR10478 DISPATCH No:D2022TR0820

Date Of Report Issue 07/03/2022 Sample Receiving Date 05/02/2022

Sample Registration No. AETRL2022ESSARST2189 Issue To M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

TEST REPORT OF FLUE GAS EMISSIONS

Location Unit #2 **Date of Monitoring** 04/02/2022

Mr. Omprakash and Narendra Sample Collected By

Source of Emission **Exhaust Emission** Sampling Method IS:11255 (Part-3)

Material of Construction M.S. Stack Attached to Boiler Stack Height Ground Level 275 mtr Monitoring Platform Height From Ground Level 105 mtr Circular Inside Diameter of Stack at Sampling Point 6.9 mtr 37.37 m² Cross Sectional Area of Stack 26.1°C Ambient Air Temperature 127.1 °C Flue Gas Temperature 28.05 ms⁻¹ Exit Velocity of Gas 748.6 N m³ s⁻¹ Flow Rate of Gas At Standard Temp. & Pressure Emission Rate at Stack Temp. & Pressure 2694960 m³ h⁻¹

TEST RESULTS

S.No.	Test Parameters	Method Adopted	Pollutant Concentration	Standards Limit (mg/Nm³)
1.	Particulate Matter (PM)	IS:11255 (Part-1)	44.2 mg/Nm ³	50
2.	Sulphur Dioxide (SO ₂)	IS:11255 (Part-2)	813.8 mg/Nm ³	200 [*]
3.	Nitrogen Oxides (NO _x)	IS:11255 (Part-7)	431.7 mg/Nm ³	450 [*]
4.	Carbon Monoxide* (CO)	Orsat Apparatus	1.57 ppm	-
5.	Mercuryas Hg	EPA Method 29	BDL mg/Nm ³	0.03

Dr. Dinesh K. Uchhariya (Technical Manager)

Emission Rate at Standard Temp. & Pressure



Authorized Signatory Rajesh Jain (TD & QC Head)

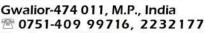
24180769 N m³ h⁻¹











Email: aetrl2016@gmail.com, aelgwalior@gmail.com

TEST CERTIFICATE: CHEMICAL LAB **TEST REPORT**

ULR: TC740522000010704F TR No.AETRL2022TR10704 DISPATCH No:D2022TR0836

Date Of Report Issue 05/04/2022 Sample Receiving Date 12/03/2022

Sample Registration No. AETRL2022MEL/ST2387

Issue To M/s. MAHAN ENERGEN LIMITED

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

TEST REPORT OF FLUE GAS EMISSIONS

Location Unit #1 **Date of Monitoring** 11/03/2022

Mr. Omprakash and Narendra Sample Collected By

Source of Emission **Exhaust Emission** Sampling Method IS:11255 (Part-3)

Material of Construction M.S. Stack Attached to Boiler Stack Height Ground Level 275 mtr Monitoring Platform Height From Ground Level 105 mtr Circular Inside Diameter of Stack at Sampling Point 6.9 mtr 37.37 m² Cross Sectional Area of Stack 35.2°C Ambient Air Temperature 138.1 °C Flue Gas Temperature 27.86 ms⁻¹ Exit Velocity of Gas 777.1 N m³ s⁻¹ Flow Rate of Gas At Standard Temp. & Pressure Emission Rate at Stack Temp. & Pressure 2798445 m³ h⁻¹

2491096 N m³ h⁻¹ Emission Rate at Standard Temp. & Pressure

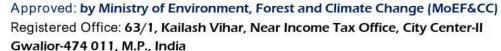
TEST RESULTS

S.No.	Test Parameters	Method Adopted	Pollutant Concentration	Standards Limit (mg/Nm³)
1.	Particulate Matter (PM)	IS:11255 (Part-1)	45.6 mg/Nm ³	50
2.	Sulphur Dioxide (SO ₂)	IS:11255 (Part-2)	877.2 mg/Nm ³	200*
3.	Nitrogen Oxides (NO _x)	IS:11255 (Part-7)	381.5 mg/Nm ³	450 [*]
4.	Carbon Monoxide* (CO)	Orsat Apparatus	1.86 ppm	-
5.	Mercuryas Hg	EPA Method 29	BDL mg/Nm ³	0.03

Dr. Dinesh K. Uchhariya (Technical Manager)







BIQS





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Email: aetrl2016@gmail.com, aelgwalior@gmail.com

TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC740522000010705F TR No.AETRL2022TR10705 DISPATCH No:D2022TR0836

Date Of Report Issue 05/04/2022 Sample Receiving Date 26/03/2022

Sample Registration No. AETRL2022MEL/ST2388

Issue To M/s. MAHAN ENERGEN LIMITED

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

TEST REPORT OF FLUE GAS EMISSIONS

Location Unit # 2
Date of Monitoring 25/03/2022

Sample Collected By Mr. Omprakash and Narendra

Source of Emission Exhaust Emission Sampling Method IS:11255 (Part-3)

Material of Construction M.S. Stack Attached to Boiler Stack Height Ground Level 275 mtr Monitoring Platform Height From Ground Level 105 mtr Circular Inside Diameter of Stack at Sampling Point 6.9 mtr 37.37 m² Cross Sectional Area of Stack 32.5°C Ambient Air Temperature 140.2 °C Flue Gas Temperature 29.12 ms⁻¹ Exit Velocity of Gas 801.6 N m³ s⁻¹ Flow Rate of Gas At Standard Temp. & Pressure Emission Rate at Stack Temp. & Pressure 2884647 m³ h⁻¹

TEST RESULTS

S.No.	Test Parameters	Method Adopted	Pollutant Concentration	Standards Limit (mg/Nm³)
1.	Particulate Matter (PM)	IS:11255 (Part-1)	46.6 mg/Nm ³	50
2.	Sulphur Dioxide (SO ₂)	IS:11255 (Part-2)	860.1 mg/Nm ³	200 [*]
3.	Nitrogen Oxides (NO _x)	IS:11255 (Part-7)	412.9 mg/Nm ³	450 [*]
4.	Carbon Monoxide* (CO)	Orsat Apparatus	1.63 ppm	-
5.	Mercuryas Hg	EPA Method 29	BDL mg/Nm ³	0.03

Reviewed by
Dr. Dinesh K. Uchhariya
(Technical Manager)

Emission Rate at Standard Temp. & Pressure



Authorized Signatory
Rajesh Jain
(TD & QC Head)

2687152 N m³ h⁻¹





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 7 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000008496F TR No. AETRL2021TR8496 DISPATCH NO: D2021TR0679

Date of Report Issue 08/11/2021
Receiving date 26/10/2021

Sample Registration No. AETRL2021/ESSAR/WW/1619
Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

DATE OF SAMPLING 22/10/2021

DATE OF ANALYSIS 22/10/2021 to 06/11/2021 LOCATION INSIDE THE PLANT PREMISES

WATER SOURCE ETP OUTLET

ANALYSIS REPORT OF ETP SAMPLE

S.No.	Parameter	Result	Standard Limits
1.	РН	7.49	6.5 to 9.0
2.	Electrical Conductivity, (µS/cm)	1789	-
3.	Total solids, (mg/L)	1144	-
4.	Total Dissolved Solids, (mg/L)	1078	2100
5.	Suspended Solids, (mg/L)	66	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	14.7	30
7.	Chemical Oxygen Demand, (mg/L)	118	250
8.	Oil & Grease, (mg/L)	2.86	10
9.	Chlorides (mg/L)	138	1000

******END OF REPORT*****

Mal mil

Dy. Manager (Tech)

Prepared By

Gwalior Charles

Authorized By

Manager





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

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TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000008495F TR No. AETRL2021TR8495 DISPATCH NO: D2021TR0679

Date of Report Issue 08/11/2021 Receiving date 26/10/2021

Sample Registration No. AETRL2021/ESSAR/WW/1618 Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

DATE OF SAMPLING 22/10/2021

DATE OF ANALYSIS 22/10/2021 to 06/11/2021 LOCATION INSIDE THE PLANT PREMISES

WATER SOURCE STP OUTLET SAMPLE

ANALYSIS REPORT OF STP SAMPLE

S.No.	Parameter	Result	Standard Limits
1.	На	7.41	6.5 to 9.0
2.	Electrical Conductivity, (µS/cm)	1727	-
3.	Total Solids, (mg/L)	1062	-
4.	Total Dissolved Solids, (mg/L)	1014	2100
5.	Suspended Solids, (mg/L)	48	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	8.17	30
7.	Chemical Oxygen Demand, (mg/L)	57.2	250
8.	Oil & Grease, (mg/L)	0.62	10
9.	Chloride, (mg/L)	131.4	1000
10.	Fecal Coliform, (MPN/100 ml)	90	<1000

*****END OF REPORT*****

Dy. Manager (Tech)

Prepared By

Gwalior Cwalior

Manager

Authorized By





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC) Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 7 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009677F TR No. AETRL2021TR9677 DISPATCH NO: D2021TR0770

Date of Report Issue 04/12/2021 Receiving date 27/11/2021

Sample Registration No. AETRL2021/ESSAR/WW/1757 Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

DATE OF SAMPLING 23/11/2021

DATE OF ANALYSIS 23/11/2021 to 03/12/2021 LOCATION INSIDE THE PLANT PREMISES

WATER SOURCE STP OUTLET SAMPLE

ANALYSIS REPORT OF STP SAMPLE

S.No.	Parameter	Result	Standard Limits
1.	рН	7.55	6.5 to 9.0
2.	Electrical Conductivity, (µS/cm)	1650	-
3.	Total Solids, (mg/L)	1038	-
4.	Total Dissolved Solids, (mg/L)	986	2100
5.	Suspended Solids, (mg/L)	52	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	8.96	30
7.	Chemical Oxygen Demand, (mg/L)	61.7	250
8.	Oil & Grease, (mg/L)	0.78	10
9.	Chloride, (mg/L)	135.7	1000
10.	Fecal Coliform, (MPN/100 ml)	56	<1000

*****END OF REPORT*****

Dy. Manager (Tech)

Prepared By

Wallor Private And Research

Authorized By

Manager





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

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Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009678F TR No. AETRL2021TR9678 DISPATCH NO: D2021TR0770

Date of Report Issue 04/12/2021
Receiving date 27/11/2021

Sample Registration No. AETRL2021/ESSAR/WW/1758 Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

DATE OF SAMPLING 23/11/2021

DATE OF ANALYSIS 23/11/2021 to 03/12/2021 LOCATION INSIDE THE PLANT PREMISES

WATER SOURCE ETP OUTLET

ANALYSIS REPORT OF ETP SAMPLE

S.No.	Parameter	Result	Standard Limits
1.	Н	7.39	6.5 to 9.0
2.	Electrical Conductivity, (µS/cm)	1714	-
3.	Total solids, (mg/L)	1110	-
4.	Total Dissolved Solids, (mg/L)	1048	2100
5.	Suspended Solids, (mg/L)	62	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	14.7	30
7.	Chemical Oxygen Demand, (mg/L)	124	250
8.	Oil & Grease, (mg/L)	1.95	10
9.	Chlorides (mg/L)	147	1000

******END OF REPORT*****

Prepared By

Dy. Manager (Tech)

Wallior Driving

Authorized By

Manager



CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
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TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009859F TR No. AETRL2021TR9859 DISPATCH NO: D2021TR0792

Date of Report Issue 05/01/2022 Receiving date 25/12/2021

Sample Registration No. AETRL2021/ESSAR/WW/1798 Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

DATE OF SAMPLING 18/12/2021

DATE OF ANALYSIS 18/12/2021 to 04/01/2022 LOCATION INSIDE THE PLANT PREMISES

WATER SOURCE ETP OUTLET

ANALYSIS REPORT OF ETP SAMPLE

S.No.	Parameter	Result	Standard Limits
1.	рН	7.42	6.5 to 9.0
2.	Electrical Conductivity, (µS/cm)	1812	-
3.	Total solids, (mg/L)	1160	-
4.	Total Dissolved Solids, (mg/L)	1080	2100
5.	Suspended Solids, (mg/L)	80	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	11.3	30
7.	Chemical Oxygen Demand, (mg/L)	108	250
8.	Oil & Grease, (mg/L)	2.36	10
9.	Chlorides (mg/L)	152	1000

*****END OF REPORT****

Dr. Dinesh K. Uchhariya (Technical Manager)



CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

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TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009858F TR No. AETRL2021TR9858 DISPATCH NO: D2021TR0792

Date of Report Issue 05/01/2022 Receiving date 25/12/2021

Sample Registration No. AETRL2021/ESSAR/WW/1797 Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

DATE OF SAMPLING 18/12/2021

DATE OF ANALYSIS 18/12/2021 to 04/01/2022 LOCATION INSIDE THE PLANT PREMISES

WATER SOURCE STP OUTLET SAMPLE

ANALYSIS REPORT OF STP SAMPLE

S.No.	Parameter	Result	Standard Limits
1.	рН	7.43	6.5 to 9.0
2.	Electrical Conductivity, (µS/cm)	1584	-
3.	Total Solids, (mg/L)	998	-
4.	Total Dissolved Solids, (mg/L)	958	2100
5.	Suspended Solids, (mg/L)	40	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	7.88	30
7.	Chemical Oxygen Demand, (mg/L)	66.2	250
8.	Oil & Grease, (mg/L)	0.68	10
9.	Chloride, (mg/L)	142	1000
10.	Fecal Coliform, (MPN/100 ml)	66	<1000

*****END OF REPORT****

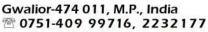
Dr. Dinesh K. Uchhariya (Technical Manager)

Gwallor Wallor



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II



Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC7405-22-000010231F TR No. AETRL 2022 TR 10231 DISPATCH NO:D2022TR0808

Date of Report Issue 04/02/2022 Receiving date 27/01/2022

Sample Registration No. AETRL2021/ESSAR/WW/1907 Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

18/01/2022 DATE OF SAMPLING

18/01/2022 to 03/02/2022 DATE OF ANALYSIS LOCATION INSIDE THE PLANT PREMISES

WATER SOURCE ETP OUTLET

ANALYSIS REPORT OF ETP SAMPLE

S.No.	Parameter	Result	Standard Limits
1.	рН	7.33	6.5 to 9.0
2.	Electrical Conductivity, (µS/cm)	1960	-
3.	Total solids, (mg/L)	1188	-
4.	Total Dissolved Solids, (mg/L)	1120	2100
5.	Suspended Solids, (mg/L)	68	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	13.7	30
7.	Chemical Oxygen Demand, (mg/L)	118	250
8.	Oil & Grease, (mg/L)	3.96	10
9.	Chlorides (mg/L)	144	1000

*****END OF REPORT*****

Dr. Dinesh K. Uchhariya (Technical Manager)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India

7 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC7405-22-000010230F TR No.AETRL2022TR10230 DISPATCH NO:D2022TR0808

Date of Report Issue 04/02/2022 Receiving date 27/01/2022

Sample Registration No. AETRL2021/ESSAR/WW/1906
Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

DATE OF SAMPLING 18/01/2022

DATE OF ANALYSIS 18/01/2022 to 03/02/2022 LOCATION INSIDE THE PLANT PREMISES

WATER SOURCE STP OUTLET SAMPLE

ANALYSIS REPORT OF STP SAMPLE

S.No.	Parameter	Result	Standard Limits
1.	рН	7.47	6.5 to 9.0
2.	Electrical Conductivity, (µS/cm)	1779	-
3.	Total Solids, (mg/L)	1124	-
4.	Total Dissolved Solids, (mg/L)	1058	2100
5.	Suspended Solids, (mg/L)	66	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	7.93	30
7.	Chemical Oxygen Demand, (mg/L)	61.8	250
8.	Oil & Grease, (mg/L)	0.77	10
9.	Chloride, (mg/L)	156	1000
10.	Fecal Coliform, (MPN/100 ml)	42	<1000

******END OF REPORT*****

Reviewed by
Dr. Dinesh K. Uchhariya
(Technical Manager)

Gwailor Wallor

Authorized Signatory Rajesh Jain

(TD & QC Head)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 2 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010463F TR No.AETRL2022TR10463 DISPATCH No:D2022TR0819

Date of Report Issue 07/03/2022 Receiving date 25/02/2022

Sample Registration No. AETRL2022ESSARWW2177
Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

Date Of Sampling 18/02/2022

Date Of Analysis 18/02/2022 To 05/03/2022 Location Inside The Plant Premises

Water Source ETP Outlet

ANALYSIS REPORT OF ETP SAMPLE

S.No.	Parameter	Result	Standard Limits
1.	рН	7.40	6.5 to 9.0
2.	Electrical Conductivity, (μS/cm)	1912	-
3.	Total solids, (mg/L)	1160	-
4.	Total Dissolved Solids, (mg/L)	1102	2100
5.	Suspended Solids, (mg/L)	58	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	11.2	30
7.	Chemical Oxygen Demand, (mg/L)	106	250
8.	Oil & Grease, (mg/L)	2.31	10
9.	Chlorides (mg/L)	139	1000

******END OF REPORT*****

Reviewed by

Dr. Dinesh K. Uchhariya

(Technical Manager)

Gwalior Gwalior





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TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010462F TR No.AETRL2022TR10462 DISPATCH No:D2022TR0819

Date of Report Issue 07/03/2022 Receiving date 25/02/2022

Sample Registration No. AETRL2022ESSARWW2176
Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

Date of Sampling 18/02/2022

Date of Analysis 18/02/2022 To 05/03/2022
Location Inside The Plant Premises
Water Source STP Outlet Sample

ANALYSIS REPORT OF STP SAMPLE

S.No.	Parameter	Result	Standard Limits
1.	pH	7.31	6.5 to 9.0
2.	Electrical Conductivity, (μS/cm)	1713	-
3.	Total Solids, (mg/L)	1110	-
4.	Total Dissolved Solids, (mg/L)	1058	2100
5.	Suspended Solids, (mg/L)	52	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	8.73	30
7.	Chemical Oxygen Demand, (mg/L)	76.1	250
8.	Oil & Grease, (mg/L)	0.68	10
9.	Chloride, (mg/L)	143	1000
10.	Fecal Coliform, (MPN/100 ml)	66	<1000

******END OF REPORT*****

Reviewed by

Dr. Dinesh K. Uchhariya

(Technical Manager)

Gwalior Gwalior





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Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010690F TR No.AETRL2022TR10690 DISPATCH No:D2022TR0835

Date of Report Issue 05/04/2022 Receiving date 07/03/2022

Sample Registration No. AETRL2022MEL/WW2377
Issue to M/s. Mahan Energen Limited

Add. Vill. Bandhaura, Post Karsualal, Tahsil Mada 486886

Madhya Pradesh

Date Of Sampling 05/03/2022

Date Of Analysis 05/03/2022 To 04/04/2022 Location Inside The Plant Premises

Water Source ETP Outlet

Analysis Report of ETP Sample

S.No.	Parameter	Result	Standard Limits
1.	рН	7.31	6.5 to 9.0
2.	Electrical Conductivity, (μS/cm)	1936	-
3.	Total solids, (mg/L)	1161	-
4.	Total Dissolved Solids, (mg/L)	1089	2100
5.	Suspended Solids, (mg/L)	72	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	13.7	30
7.	Chemical Oxygen Demand, (mg/L)	112	250
8.	Oil & Grease, (mg/L)	3.08	10
9.	Chlorides (mg/L)	155	1000

*****END OF REPORT****

Reviewed by
Dr. Dinesh K. Uchhariya
(Technical Manager)

Gwallor Gwallor





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Gwalior-474 011, M.P., India 90751-409 99716, 2232177

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TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010689F TR No.AETRL2022TR10689 DISPATCH No:D2022TR0835

Date of Report Issue 05/04/2022 Receiving date 07/03/2022

Sample Registration No. AETRL2022MEL/WW2376
Issue to M/s. Mahan Energen Limited

Add. Vill. Bandhaura, Post Karsualal, Tahsil Mada 486886

Madhya Pradesh

Date of Sampling 05/03/2022

Date of Analysis

Location

O5/03/2022 To 04/04/2022

Inside The Plant Premises

Water Source

STP Outlet Sample

Analysis Report of STP Sample

S.No.	Parameter	Result	Standard Limits
1.	рН	7.42	6.5 to 9.0
2.	Electrical Conductivity, (μS/cm)	1625	-
3.	Total Solids, (mg/L)	1024	-
4.	Total Dissolved Solids, (mg/L)	958	2100
5.	Suspended Solids, (mg/L)	66	100
6.	Biochemical Oxygen Demand, (mg/L) (3 days 27°C)	11.5	30
7.	Chemical Oxygen Demand, (mg/L)	90.2	250
8.	Oil & Grease, (mg/L)	0.88	10
9.	Chloride, (mg/L)	138	1000
10.	Fecal Coliform, (MPN/100 ml)	72	<1000

******END OF REPORT*****

Reviewed by
Dr. Dinesh K. Uchhariya
(Technical Manager)

Gwalior Gwalior Gwalior



CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC) Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 2 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





Test Certificate

ULR: TC740522000010710P

Test Report No. AETRL2022TR10710	Dispatch No.D2022TR837
Date of Report Issue	05/04/2022
Receiving date	07/03/2022
Sample Registration No.	AETRL2022MEL/W2393
Issue to	M/s. Mahan Energen Limited
Add.	Vill. Bandhaura, Post Karsualal, Tahsil Mada 486886
	Madhya Pradesh

Sample Description	Ro Water
Date of Sampling	04/03/2022
Date of Analysis	04/03/2022 To 04/04/2022
Location	Near Ash Dyke Cell No 3
Water Source	Piezometer Borehole
Water Level	4.9 mtrs

Analysis Report

S. No.	Parameters	Result	Indian Standards as per IS:10500:1991 (Reaff:2012)	
			Acceptable Limit	Permissible Limit
1.	рН	7.33	6.5-8.5	No Relax
2.	Colour (Hazen)	2.45	5	15
3.	Odor	Agreeable	Agreeable	Agreeable
4.	Turbidity (NTU)	0.96	1	5
5.	Total Dissolved Solids (mg/L)	456	500	2000
6.	Total Alkalinity (mg/L)	174	200	600
7.	Total Hardness as CaCO ₃ (mg/L)	163	200	600
8.	Calcium as Ca (mg/L)	47.2	75	200
9.	Magnesium as Mg (mg/L)	10.9	30	100
10.	Residual Chlorine (mg/L)	BDL	0.2	1
11.	Total Ammonia (mg/L)	BDL	0.5	No Relax
12.	Boron (mg/L)	BDL	0.5	1.0
13.	Chlorides (mg/L)	41.2	250	1000
14.	Sulphate (mg/L)	60.1	200	400
15.	Fluoride (mg/L)	0.602	1.0	1.5
16.	Nitrate (mg/L)	4.63	45.0	No Relax
17.	Arsenic (mg/L)	BDL	0.01	0.05
18.	Lead (mg/L)	BDL	0.01	No Relax.
19.	Cadmium (mg/L)	BDL	0.003	No Relax.
20.	Zinc (mg/L)	1.25	5.0	15





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21.	Copper (mg/L)	0.031	0.05	1.5
22.	Mercury (mg/L)	BDL	0.001	No Relax.
23.	Iron (mg/L)	0.105	0.3	No Relax.
24.	Nickel (mg/L)	BDL	0.02	No Relax.

****End of Report****

Dr. Dinesh K. Uchhariya
(Technical Manager)





CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
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Test Certificate

ULR: TC740522000010711P

Test Report No. AETRL2022TR10711	Dispatch No.D2022TR837
Date of Report Issue	05/04/2022
Receiving date	07/03/2022
Sample Registration No.	AETRL2022MEL/W2394
Issue to	M/s. Mahan Energen Limited
Add.	Vill. Bandhaura, Post Karsualal, Tahsil Mada 486886
	Madhya Pradesh

Sample Description	Ro Water
Date of Sampling	04/03/2022
Date of Analysis	04/03/2022 To 04/04/2022
Location	Near Ash Dyke
Water Source	Piezometer Borehole-1
Water Level	6.0 mtrs

Analysis Report

S. No.	Parameters	Result	Indian Standards as per IS:10500:1991 (Reaff:2012)	
			Acceptable Limit	Permissible Limit
1.	рН	7.23	6.5-8.5	No Relax
2.	Colour (Hazen)	3.02	5	15
3.	Odor	Agreeable	Agreeable	Agreeable
4.	Turbidity (NTU)	0.56	1	5
5.	Total Dissolved Solids (mg/L)	451	500	2000
6.	Total Alkalinity (mg/L)	156	200	600
7.	Total Hardness as CaCO ₃ (mg/L)	183	200	600
8.	Calcium as Ca (mg/L)	49.2	75	200
9.	Magnesium as Mg (mg/L)	14.6	30	100
10.	Residual Chlorine (mg/L)	BDL	0.2	1
11.	Total Ammonia (mg/L)	BDL	0.5	No Relax
12.	Boron (mg/L)	BDL	0.5	1.0
13.	Chlorides (mg/L)	44.3	250	1000
14.	Sulphate (mg/L)	55.3	200	400
15.	Fluoride (mg/L)	0.670	1.0	1.5
16.	Nitrate (mg/L)	5.36	45.0	No Relax
17.	Arsenic (mg/L)	BDL	0.01	0.05
18.	Lead (mg/L)	BDL	0.01	No Relax.
19.	Cadmium (mg/L)	BDL	0.003	No Relax.
20.	Zinc (mg/L)	1.70	5.0	15



CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
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Email: aetrl2016@gmail.com, aelgwalior@gmail.com





21.	Copper (mg/L)	0.022	0.05	1.5
22.	Mercury (mg/L)	BDL	0.001	No Relax.
23.	Iron (mg/L)	0.230	0.3	No Relax.
24.	Nickel (mg/L)	BDL	0.02	No Relax.

****End of Report****

Dr. Dinesh K. Uchhariya
(Technical Manager)





CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

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Test Certificate

ULR: TC740522000010712P

Test Report No. AETRL2022TR10712	Dispatch No.D2022TR837
Date of Report Issue	05/04/2022
Receiving date	07/03/2022
Sample Registration No.	AETRL2022MEL/W2395
Issue to	M/s. Mahan Energen Limited
Add.	Vill. Bandhaura, Post Karsualal, Tahsil Mada 486886
	Madhya Pradesh

Sample Description	Ro Water
Date of Sampling	04/03/2022
Date of Analysis	04/03/2022 To 04/04/2022
Location	Near Ash Dyke
Water Source	Piezometer Borehole-2
Water Level	7.5 mtrs

Analysis Report

S. No.	Parameters	Result	Indian Standards as per IS:10500:1991 (Reaff:2012)			
			Acceptable Limit	Permissible Limit		
1.	рН	7.55	6.5-8.5	No Relax		
2.	Colour (Hazen)	3.93	5	15		
3.	Odor	Agreeable	Agreeable	Agreeable		
4.	Turbidity (NTU)	0.93	1	5		
5.	Total Dissolved Solids (mg/L)	428	500	2000		
6.	Total Alkalinity (mg/L)	162	200	600		
7.	Total Hardness as CaCO ₃ (mg/L)	178	200	600		
8.	Calcium as Ca (mg/L)	48.1	75	200		
9.	Magnesium as Mg (mg/L)	14.1	30	100		
10.	Residual Chlorine (mg/L)	BDL	0.2	1		
11.	Total Ammonia (mg/L)	BDL	0.5	No Relax		
12.	Boron (mg/L)	BDL	0.5	1.0		
13.	Chlorides (mg/L)	49.1	250	1000		
14.	Sulphate (mg/L)	56.7	200	400		
15.	Fluoride (mg/L)	0.369	1.0	1.5		
16.	Nitrate (mg/L)	4.93	45.0	No Relax		
17.	Arsenic (mg/L)	BDL	0.01	0.05		
18.	Lead (mg/L)	BDL	0.01	No Relax.		
19.	Cadmium (mg/L)	BDL	0.003	No Relax.		
20.	Zinc (mg/L)	1.17	5.0	15		



CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

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21.	Copper (mg/L)	0.031	0.05	1.5
22.	Mercury (mg/L)	BDL	0.001	No Relax.
23.	Iron (mg/L)	0.093	0.3	No Relax.
24.	Nickel (mg/L)	BDL	0.02	No Relax.

****End of Report****

Reviewed by

Dr. Dinesh K. Uchhariya

(Technical Manager)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

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Test Certificate

ULR: TC740522000010713P

Test Report No. AETRL2022TR10713	Dispatch No.D2022TR837
Date of Report Issue	05/04/2022
Receiving date	07/03/2022
Sample Registration No.	AETRL2022MEL/W2396
Issue to	M/s. Mahan Energen Limited
Add.	Vill. Bandhaura, Post Karsualal, Tahsil Mada 486886
	Madhya Pradesh

Sample Description	Ro Water
Date of Sampling	04/03/2022
Date of Analysis	04/03/2022 To 04/04/2022
Location	Near Ash Dyke
Water Source	Piezometer Borehole-3
Water Level	4.5 mtrs

Analysis Report

S. No.	Parameters	Result	Indian Standards as per IS:10500:1991 (Reaff:2012)			
			Acceptable Limit	Permissible Limit		
1.	рН	7.30	6.5-8.5	No Relax		
2.	Colour (Hazen)	1.36	5	15		
3.	Odor	Agreeable	Agreeable	Agreeable		
4.	Turbidity (NTU)	0.40	1	5		
5.	Total Dissolved Solids (mg/L)	460	500	2000		
6.	Total Alkalinity (mg/L)	152	200	600		
7.	Total Hardness as CaCO₃ (mg/L)	188	200	600		
8.	Calcium as Ca (mg/L)	51.1	75	200		
9.	Magnesium as Mg (mg/L)	14.7	30	100		
10.	Residual Chlorine (mg/L)	BDL	0.2	1		
11.	Total Ammonia (mg/L)	BDL	0.5	No Relax		
12.	Boron (mg/L)	BDL	0.5	1.0		
13.	Chlorides (mg/L)	38.6	250	1000		
14.	Sulphate (mg/L)	48.1	200	400		
15.	Fluoride (mg/L)	0.523	1.0	1.5		
16.	Nitrate (mg/L)	2.39	45.0	No Relax		
17.	Arsenic (mg/L)	BDL	0.01	0.05		
18.	Lead (mg/L)	BDL	0.01	No Relax.		
19.	Cadmium (mg/L)	BDL	0.003	No Relax.		
20.	Zinc (mg/L)	1.08	5.0	15		



CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

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21.	Copper (mg/L)	0.031	0.05	1.5
22.	Mercury (mg/L)	BDL	0.001	No Relax.
23.	Iron (mg/L)	0.182	0.3	No Relax.
24.	Nickel (mg/L)	BDL	0.02	No Relax.

****End of Report****

Reviewed by Dr. Dinesh K. Uchhariya

Dr. Dinesh K. Uchhariya (Technical Manager)

Gwalior Search

Authorized Signatory Rajesh Jain

(TD & QC Head)

Mahan Energen Limited

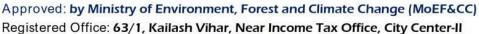
Annexure: 5

Greenbelt Details:

Green belt Area developed (ha)	No. of Trees Planted	No. of Shrubs Planted			
109 (ha)	103285				

PLANTED SPECIES IN AND AROUND PLANT PREMISES							
Sr. No.	Scientific Name	Common Name					
Tress							
1.	Peltophorum pterocarpum	Yellow Gulmohar					
2.	Azadirachta indica	Neem					
3.	Madhuca longifolia	Mahua					
4.	Vachellia nilotica	Babool					
5.	Tectona grandis	Saghwan					
6.	Ficus benjamina	Ficus					
7.	Millettia pinnata	Karanj					
8.	Albizia saman	Rain Tree					
9.	Delonix regia	Gulmohar					
10.	Senna siamea	Kasod					
11.	Syzygium cumini	Jamun					
12.	Mangifera indica	Mango					
13.	Psidium guajava	Guava					
14.	Manilkara zapota	Chiku					
15.	Litchi chinensis	Litchi					
16.	Phyllanthus emblica	Amla					
17.	Artocarpus heterophyllus	Jack Fruit					
18.	Gmelina arborea	Gumhar					
19.	Saraca asoca	Ashoka					
20.	Cassia fistula	Amaltaas					
21.	Mimusops elengi	Molshree					
22.	Terminalia arjuna	Arjun					
23.	Dalbergia sissoo	Sisham					
24.	Bombax ceiba	Simal					
25.	Roystonea regia	Royal Palm					
26.	Wodyetia bifurcata	Foxtail palm					
27.	Juniperus	Hapusa					
28.	Thuja	Thuja					
29.	Moringa oleifera	Drumstick					
30.	Brahea	Palm					
31.	Lagerstroemia speciosa	Zarul					
32.	Eucalyptus globulus Labill	Eucalyptus					
33.	Aegle marmelos	Bel					
Shrubs							
34.	Callistemon	Bottle Brush					
35.	Codiaeum variegatum	Croton					
36.	Rosa	Rose					
37.	Bougainvillea	Bougainvillea					
38.	Hibiscus	China rose					
39.	Mussaenda erythrophylla	Mussaenda					
40.	Plumeria Spp	White Frangipani					
41.	ixora coccinea	ixora					
42.	Tabernaemontana divaricata	Pinwheel flower					
43.	Cycas revoluta	Cycas					
44.	Lantana camara	Lantana					
45.	Berberis thunbergii	Hedge					







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TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

TR No. AETRL2021TR9113-9116 DISPATCH NO: D2021TR0724

Date of Report Issue 08/11/2021 Sample Receiving Date 06/10/2021

Sample Registration No. AETRL2021/ESSAR/AN/1637-1640

Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL

MADA 486886 MADHYA PRADESH

Reg N. TR No. ULR No Reg N. TR No. ULR No

1637 TR9113 ULR: TC7405-21-0**00009113F** 1639 TR9115 ULR: TC7405-21-0**00009115F** 1638 TR9114 ULR: TC7405-21-0**00009114F** 1640 TR9116 ULR: TC7405-21-0**00009116F**

REPORT OF AMBIENT NOISE MONITORING

Date of Monitoring: 05/10/2021

9	o Z		Day in dB(A)		on on ool) 00	Night in dB(A)			ution ion trol) 200
Sample Registration I	Locations	Min.	Max.	Leq.	Noise Pollution (Regulation and Control) Rules, 2000	Min.	Max.	Leq.	Noise Pollution (Regulation and Control) Rules, 2000
1637	NEAR GATE No 1	53.2	68.3	62.8		48.7	61.7	59.8	
1638	NEAR GATE No 2	47.7	68.1	63.1	75 dB(A)	46.6	56.8	51.9	70 dB(A)
1639	NEAR GATE No 3	46.8	63.7	60.7	10 UD(A)	46.8	57.2	52.2	, o ab(A)
1640	NEAR ADMIN BLOCK	45.1	56.2	52.3		42.2	53.5	45.9	

Working M/2

Prepared By

Dy. Manager (Tech)

Walior And Research Committee Commit

12 pst.

'Manager

Authorized By





Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

TR No. AETRL2021TR9693-9696 DISPATCH NO: D2021TR0771

Date of Report Issue 04/12/2021 Sample Receiving Date 05/11/2021

Sample Registration No. AETRL2021/ESSAR/AN/1773-1776

Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL

MADA 486886 MADHYA PRADESH

Reg N. TR No. ULR No Reg N. TR No. ULR No

1773 TR9693 ULR: TC7405-21-0**00009693F** 1775 TR9695 ULR: TC7405-21-0**00009695F** 1774 TR9694 ULR: TC7405-21-0**00009694F** 1776 TR9696 ULR: TC7405-21-0**00009696F**

REPORT OF AMBIENT NOISE MONITORING

Date of Monitoring: 04/11/2021

9	o Z		Day in dB(A)		ntion on rol)	Night in dB(A)			ution ion trol) 200
Sample Registration I	Locations	Min.	Max.	Leq.	Noise Pollution (Regulation and Control) Rules, 2000	Min.	Max.	Leq.	Noise Pollutio (Regulation and Control) Rules, 2000
1773	NEAR GATE No 1	52.8	67.2	64.1		47.8	62.1	60.1	
1774	NEAR GATE No 2	50.2	65.9	62.8	75 dB(A)	45.6	58.2	53.2	70 dB(A)
1775	NEAR GATE No 3	48.9	66.1	63.1	10 ab(A)	48.1	57.0	53.7	, o ab(A)
1776	NEAR ADMIN BLOCK	46.2	57.8	54.6		44.8	52.8	48.5	

Dy. Manager (Tech)

Prepared By

Wallot And Research

Jin State

Authorized By

Manager



CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 90751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com



DISPATCH NO: D2021TR0792

TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

TR No. AETRL2021TR9874-9877

Date of Report Issue 05/01/2022 Sample Receiving Date 07/12/2021

Sample Registration No. AETRL2021/ESSAR/AN/1813-1816

Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL

MADA 486886 MADHYA PRADESH

Reg N. TR No. ULR No Reg N. TR No. ULR No

1813 TR9874 ULR: TC7405-21-0**00009874F** 1815 TR9876 ULR: TC7405-21-0**00009876F** 1814 TR9875 ULR: TC7405-21-0**00009875F** 1816 TR9877 ULR: TC7405-21-0**00009877F**

REPORT OF AMBIENT NOISE MONITORING

Date of Monitoring: 06/12/2021

Š.		Day in dB(A)		ion O	Night in dB(A)			ution ion trol) 300	
Sample Registration N	Locations	Min.	Max.	Leq.	Noise Pollution (Regulation and Control) Rules, 2000	Min.	Max.	Leq.	Noise Pollution (Regulation and Control) Rules, 2000
1813	NEAR GATE No 1	51.6	65.6	61.8		48.6	60.2	57.8	
1814	NEAR GATE No 2	52.0	63.5	60.2	75 d P (A)	47.2	57.8	54.1	70 dB(A)
1815	NEAR GATE No 3	49.7	64.9	58.8	75 dB(A)	48.8	55.6	52.9	7 ∪ UB(A)
1816	NEAR ADMIN BLOCK	47.1	56.1	52.3		45.3	53.1	51.8	

Reviewed by
Dr. Dinesh K. Uchhariya
(Technical Manager)

Gwallor Bally & Fall

Authorized Signatory Rajesh Jain

(TD & QC Head)



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

TR No. AETRL2022TR10248-10251

Date of Report Issue 04/02/2022 Sample Receiving Date 05/01/2022

Sample Registration No. AETRL2022/ESSAR/AN/1922-1925

Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL

MADA 486886 MADHYA PRADESH

Reg N. TR No. ULR No Reg N. TR No. ULR No

1922 TR10248 ULR: TC7405-22-0**00010248F** 1924 TR10250 ULR: TC7405-22-0**00010250F** 1923 TR10249 ULR: TC7405-22-0**00010249F** 1925 TR10251 ULR: TC7405-22-0**00010251F**

REPORT OF AMBIENT NOISE MONITORING

Date of Monitoring: 04/01/2022

9.		Day in dB(A)				Night in dB(A)			on on rol)
Sample Registration I	Locations	Min.	Max.	Leq.	Noise Pollution (Regulation and Control) Rules, 2000	Min.	Max.	Leq.	Noise Pollutio (Regulation and Control) Rules, 2000
1813	NEAR GATE No 1	50.7	68.4	64.1		47.8	65.7	59.7	
1814	NEAR GATE No 2	51.6	67.2	62.7	75 dB(A)	46.9	58.1	53.9	70 dB(A)
1815	NEAR GATE No 3	51.2	68.1	63.9	10 UD(A)	46.2	56.6	53.2	, o db (A)
1816	NEAR ADMIN BLOCK	44.6	58.6	55.5		43.7	52.8	50.1	

Reviewed by

Dr. Dinesh K. Uchhariya

(Technical Manager)

GWallor And Research And Resear

Authorized Signatory
Rajesh Jain
(TD & QC Head)

DISPATCH NO: D2022TR0809



CIN: U73100MP2002PTC015352

Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)

Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II Gwalior-474 011, M.P., India

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

DISPATCH No: D2022TR082 TR No. AETRL2022TR10478-10481

Date of Report Issue 07/03/2022 Sample Receiving Date 04/02 /2022

Sample Registration No. AETRL2022ESSARAN2190-93 M/s. ESSAR POWER M.P. LTD. Issue to

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

TR No. **ULR No** TR No. ULR No Reg N. Reg N.

2190 TR10478 ULR: TC740522000010478F 2192 TR10480 ULR: TC740522000010480F 2191 TR10479 ULR: TC740522000010479F 2193 TR10481 ULR: TC740522000010481F

REPORT OF AMBIENT NOISE MONITORING

Date of Monitoring: 03/02/2022

Sample Registration No.	Locations	Day in dB(A)			no (lo:	Night in dB(A)			د در <u>اه</u> ۲
		Min.	Max.	Leq.	Noise Pollution (Regulatic and Contr Rules, 200	Min.	Max.	Leq.	Noise Pollution (Regulatic and Contr Rules, 20
1813	Near Gate No 1	52.2	70.2	66.3	75 dB(A)	51.3	66.2	61.3	70 dB(A)
1814	Near Gate No 2	53.1	71.9	65.1		50.2	65.6	62.7	
1815	Near Gate No 3	52.6	69.5	65.3		48.7	58.1	54.9	
1816	Near Admin Block	47.9	56.2	52.8		42.6	55.7	51.5	

Reviewed by Dr. Dinesh K. Uchhariya (Technical Manager)







Gwalior-474 011, M.P., India © 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

TR No. AETRL2022TR10706-10709 DISPATCH No: D2022TR836

Date of Report Issue 05/04/2022 Sample Receiving Date 07/03 /2022

Sample Registration No. AETRL2022MEL/AN2389-92
Issue to M/S. Mahan Energen Limited

Add. Vill. Bandhaura, Post Karsualal, Tahsil Mada 486886

Madhya Pradesh

Reg N. TR No. ULR No Reg N. TR No. ULR No

2389 TR10706 ULR: TC740522000010706F 2391 TR10708 ULR: TC740522000010708F 2390 TR10707 ULR: TC740522000010707F 2392 TR10709 ULR: TC740522000010709F

Report of Ambient Noise Monitoring

Date of Monitoring: 07/03/2022

-		Da	ay in dB(A)	n on (lo)	Ni	ght in dE	B(A)	ر ااه (اه
Sample Registration No.	Locations	Min.	Max.	Leq.	Noise Pollutior (Regulatic and Contr	Min.	Max.	Leq.	Noise Pollutior (Regulatic and Contr
1813	Near Gate No 1	50.8	73.9	68.3		50.8	66.8	64.9	
1814	Near Gate No 2	51.2	70.2	67.5	75 dB(A)	52.6	64.1	61.3	70 dB(A)
1815	Near Gate No 3	50.9	70.1	66.1	/ 3 GD(A)	46.2	52.6	50.2	, oub(A)
1816	Near Admin Block	49.2	58.6	55.4		45.1	53.2	50.1	

Reviewed by

Dr. Dinesh K. Uchhariya

(Technical Manager)



FORMAT - I

Ministry of Power Central Electricity Authority Thermal Civil Design Division

General Information on Power Station, Coal Mines and Quality of Coal

NAME OF POWER UTILITY: Mahan Energen Limited (Formerly Known as Essar Power MP Ltd.)

PERIOD OF REPORT: April, 2021 to March, 2022

Name of Thermal Power Plant: Mahan Energen Limited Village- Bandhaura, Post- Karsualal, Tehsil- Mada, District- Singrauli, Waidhan- 486886 (Madhya Pradesh)

	(A) Thermal Power Station						(B) Detail of N	lodal Officer (C) COAL								
	Name of Thermal Power Station	District	State	Environmental Zone	Unit-No	Installed capacity (MW)	Date of commissioning	Name	Designation	Contact No. (Land Line and Mobile)	Email	Name of Mines & its Location	Distance Of Mines from TPS (KM)	Quantity of coal Received (LMT)	Average Calorific value of coal (Kcal)	Average Ash content of coal (In percentage)
(1) (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
	In Energen imited	ngrauli	/a Pradesh	ropical Humid et) with dry winters	1	600	20.04.2013	Shukla	al Manager . & Forest	92600936	kla@adani.co m	Domestic Coal	Арргох- 80 to 120 Km	23.41		35.19
	Mahar Li	Sir	Madhya	Sub-Trog (wet) wi	2	600	07.10.2018	RN	Genera	9426	RN.Shuk	(SECL)				

Abbreviation:-

MW - Mega Wartt

TPS - Thermal Power Station

KM - Kilometer

LMT - Lakh metric tonne

Kcal - Kilocalories

Complete address of Corporate office/Head Office/Registered office						
Name of Head of Shri Santosh Kumar Singh Office						
Designation & Address	Head Environment Adani Corporate House Shantigram, Near Vaishnodevi Circle, S G					
	Highway, Ahmedabad- 382421, Gujarat, India					
e-mail	· , ,					

Complete address of Thermal Power Plant						
Name of Head of TPP	Shri Arindam Chattarjee					
Designation & Address	Station Head- Mahan Energen Limited, Village- Bandhaura, Post- Karsualal, Tehsil- Mada, District- Singrauli, Waidhan- 486886 (Madhya Pradesh)					
e-mail	Arindam.Chatterjee@adani.com					
Tel. No.	8875024765					

Ministry of Power

Central Electricity Authority

Thermal Civil Design Division

Ash Disposal Facilities Available at Thermal Power Station, Mode of Disposal (Dry & Wet) and Ash Stock Available (Fly Ash, Bottom Ash & Pond Ash)

NAME OF POWER UTILITY: Mahan Energen Limited (Formerly Known as Essar Power MP Ltd.)

PERIOD OF REPORT: April, 2021 to March, 2022

NAME OF THERMAL POWER PLANT: Mahan Energen Limited
Village- Bandhaura, Post- Karsualal, Tehsil- Mada, District- Singrauli, Waidhan486886 (Madhya Pradesh)

		Existing facilities for Ash disposal		Location & Distance of Ash	Area acquired	Design Lite of L	Additional Area if any Proposed	Ash	Disposal	Ash Stock Available as on 31.03.2022		
SI No.	Thermal Power Station			Disposal Area from TPS	for Ash Disposal			Dry Ash	Wet Ash	Fly Ash	Bottom Ash	Pond Ash
		Dry	Wet	(KM)	(Ha)	(Years)	(Ha)	(LMT)	(LMT)	(LMT)	(LMT)	(LMT)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1	Mahan Energen Limited	Fly ash Silo	I Rottom Ach	Ash Dyke and Silo: Within Plant Premises	53.47 Ha	15 Years		0.53223	1.59562	0.02226		11.510

Abbreviations:-

MW-Mega Watt

TPS- Thermal Power Station

KM- Kilometre

LMT- Lakh Metric Tonne

Ha- Hectare

Summary of Ash Stock Position:	
Ash Stock Position as on 31.03.2022 (LMT)	0.02226 (In Silo)
Ash Generation during 2021-22 (LMT)	8.36
Ash Utilisation during 2021-22 (LMT)	2.13
Ash Stock Position as on 31.03.2022 (LMT)	11.51 (Ash Dyke)
Reason for non utlising the legacy ash may also be provided	

Ministry of Power

Central Electricity Authority

Thermal Civil Design Division

Monthly Abstract of Ash Generation and Utilization

(For the Period from: April, 2021 to March, 2022)

NAME OF POWER UTILITY: Mahan Energen Limited (Formerly Known as Essar Power MP Ltd.)

NAME OF THERMAL POWER PLANT: Mahan Energen Limited Village- Bandhaura, Post- Karsualal, Tehsil- Mada, District- Singrauli, Waidhan- 486886 (Madhya Pradesh)

INSTALLED CAPACITY (Total): 1200 MW

PERIOD OF REPORT: April, 2021 to March, 2022

Г		ASH GE	NERATION AN	ID UTILIZATIO	N (LMT)				MODE OF A	SH UTILIZAT	ION AND UTIL	ZATION IN EA	CH MODE (in	LMT)		
SI. No.	Month	Coal Consumed	Ash Content of Coal %	Fly Ash Generation	Fly Ash Utilization	% age Utilization	In making of Fly Ash based Bricks / Blocks / Tiles etc.	In manufacture of Portland Pozzolana Cement	In construction of Highways & Roads including Flyovers	Part replacement of cement in concrete	In Hydro Sector in RCC Dam Construction	IN Ash Dyke raising	In reclamation of Iow Iying area/Bund Raising	In Mine Filing	In Agriculture /Waste Land Development	Others (In Ash Silo)
1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	11)	12)	13)	14)	15)	16)	17)
	Mar-21											-				0.00371
1	Арг-21	1.91551	34.48	0.66055	0.22616	34.24	0.00	0.09405	0.0000	0.000	0.000	-	0.13211	0.000	0.000	0.00329
2	May-21	1.64740	32.80	0.54032	0.10806	20.00	0.00	0.00	0.0000	0.000	0.000	-	0.10806	0.000	0.000	0.0042
3	Jun-21	1.76357	32.81	0.57855	0.11571	20.00	0.00	0.00	0.0000	0.000	0.000	-	0.11571	0.000	0.000	0.00406
4	Jul-21	1.74692	34.00	0.59395	0.11879	20.00	0.00	0.00	0.0000	0.000	0.000	-	0.11879	0.00	0.000	0.00441
5	Aug-21	2.21614	35.28	0.78181	0.15636	20.00	0.00	0.00	0.0000	0.000	0.000	-	0.15636	0.000	0.000	0.00609
6	Sep-21	1.78602	34.26	0.61189	0.12238	20.00	0.00	0.00	0.0000	0.000	0.000	-	0.12238	0.000	0.000	0.00938
7	Oct-21	1.67657	34.57	0.57959	0.11592	20.00	0.00	0.00	0.0000	0.000	0.000	-	0.11592	0.000	0.000	0.00749
8	Nov-21	0.64877	33.79	0.21920	0.04384	20.00	0.00	0.00	0.0000	0.000	0.000	-	0.04384	0.000	0.000	0.00791
9	Dec-21	2.01721	33.72	0.68029	0.13606	20.00	0.00	0.00	0.0000	0.000	0.000		0.13606	0.000	0.000	0.00791
10	Jan-22	1.44732	34.26	0.49585	0.09917	20.00	0.00	0.00	0.00000	0.000	0.000	-	0.09917	0.000	0.000	0.00658
11	Feb-22	3.29635	37.78	1.24522	0.24904	20.00	0.00	0.00	0.00000	0.000	0.000	-	0.24904	0.000	0.000	0.0224
12	Mar-22	3.59369	38.16	1.37149	0.63636	46.40	0.00	0.43818	0.00000	0.000	0.000	-	0.19818	0.000	0.000	0.02226
	Total	23.755445	35.19	8.35872	2.12785	25.46	0.00000	0.53223	0.0000	0.000	0.000		1.59562	0.000	0.000	

* 0.02226 LMT Fly Ash balance in Ash silo

Note-

- i) Ash means all types of ash including Fly ash, bottam ash and Pond Ash etc.
- ii) Quantity of ash may be provided in Lakh Metric Ton (LMT) upto five decimal places
- iii) Ash utlization in coloumn (6) shall be equal to summation of modes of ash utlisiation in each mode i.e. summation of column (8) to column (17)

Abbreviation:-

MW - Mega Watt

TPS - Thermal Power Station

KM - Kilometer Kcl Kilocalories LMT Lakh Metric tonne

Mahan Energen Limited 2 x 600 MW THERMAL POWER STATION

Annexure - 8

Mahan Energen LIMITED

ASH (%) DEATILS

Month	Coal Consumption LMT/ month	Ash Generation LMT/month	Ash %
Oct-2021	1.67657	0.57959	34.57 %
Nov-2021	0.64877	0.21920	33.79 %
Dec-2021	2.01721	0.680929	33.72 %
Jan-2022	1.44732	0.49585	34.26 %
Feb-2022	3.29635	1.24522	37.78 %
Mar-2022	3.59369	1.37149	38.16 %



20751-409 99716, 2232177



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC) Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009094P DISPATCH NO: D2021TR0724 **TR No.** AETRL2021**TR9094**

Date of Report Issue 08/11/2021 Receiving date 26/10/2021

AETRL2021/ESSAR/SW/1482 Sample Registration No. Issue to M/s. ESSAR POWER M.P. LTD.

VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA Add.

486886 MADHYA PRADESH

SAMPLE DESCRIPTION DATE OF SAMPLING DATE OF ANALYSIS LOCATION

22/10/2021 22/10/2021 to 06/11/2021

SURFACE WATER

NEAR GATE NO 01

WATER SOURCE NALLA

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.44	6.5-8.5
2.	Colour (Hazen)	201	300
3.	Total Dissolved Solids (mg/L)	334	1500
4.	Dissolved Oxygen (mg/L)	6.26	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.27	3.0
6.	Chemical Oxygen Demand (mg/L)	67.8	-
7.	Chloride (mg/L)	44.2	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.556	1.5
10.	Sulphate (mg/L)	47.1	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	7.36	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.511	50.0
18.	Zinc (mg/L)	0.325	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Dy. Manager (Tech)

Prepared



Authorized By





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC) Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India **20751-409 99716, 2232177**

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009095P **TR No.** AETRL2021**TR9095 DISPATCH NO:** D2021**TR0724**

Date of Report Issue 08/11/2021 Receiving date 26/10/2021

AETRL2021/ESSAR/SW/1483 Sample Registration No. Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

SURFACE WATER SAMPLE DESCRIPTION DATE OF SAMPLING 22/10/2021 DATE OF ANALYSIS

22/10/2021 to 06/11/2021

LOCATION NEAR GATE NO 02 WATER SOURCE NALLA

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.51	6.5-8.5
2.	Colour (Hazen)	193	300
3.	Total Dissolved Solids (mg/L)	330	1500
4.	Dissolved Oxygen (mg/L)	5.78	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.32	3.0
6.	Chemical Oxygen Demand (mg/L)	60.2	-
7.	Chloride (mg/L)	44.1	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.478	1.5
10.	Sulphate (mg/L)	40.2	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	7.33	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.527	50.0
18.	Zinc (mg/L)	0.421	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Dy. Manager (Tech)



Authorized By





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC) Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India **20751-409 99716, 2232177**

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

DISPATCH NO: D2021TR0724 ULR: TC7405-21-0**00009096P TR No.** AETRL2021**TR9096**

Date of Report Issue 08/11/2021 Receiving date 26/10/2021

Sample Registration No. AETRL2021/ESSAR/SW/1484 M/s. ESSAR POWER M.P. LTD. Issue to

VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA Add.

486886 MADHYA PRADESH

SURFACE WATER SAMPLE DESCRIPTION DATE OF SAMPLING 22/10/2021 DATE OF ANALYSIS

22/10/2021 to 06/11/2021

NEAR GATE NO 03 LOCATION WATER SOURCE RIVER SAMPLE

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.27	6.5-8.5
2.	Colour (Hazen)	183	300
3.	Total Dissolved Solids (mg/L)	314	1500
4.	Dissolved Oxygen (mg/L)	6.63	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.11	3.0
6.	Chemical Oxygen Demand (mg/L)	60.7	-
7.	Chloride (mg/L)	38.7	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.517	1.5
10.	Sulphate (mg/L)	36.7	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	10.44	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.127	50.0
18.	Zinc (mg/L)	0.141	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Dy. Manager (Tech)

Prepared By



Authorized By





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC) Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India **20751-409 99716, 2232177**

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009674P **TR No.** AETRL2021**TR9674 DISPATCH NO:** D2021**TR0770**

Date of Report Issue 04/12/2021 Receiving date 27/11/2021

AETRL2021/ESSAR/SW/1754 Sample Registration No. Issue to M/s. ESSAR POWER M.P. LTD.

VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA Add.

486886 MADHYA PRADESH

SAMPLE DESCRIPTION DATE OF SAMPLING DATE OF ANALYSIS

LOCATION WATER SOURCE SURFACE WATER 22/11/2021

22/11/2021 to 03/12/2021

NEAR GATE NO 01

NALLA

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.47	6.5-8.5
2.	Colour (Hazen)	183	300
3.	Total Dissolved Solids (mg/L)	342	1500
4.	Dissolved Oxygen (mg/L)	6.52	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.11	3.0
6.	Chemical Oxygen Demand (mg/L)	63.4	-
7.	Chloride (mg/L)	47.8	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.545	1.5
10.	Sulphate (mg/L)	48.5	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	6.85	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.582	50.0
18.	Zinc (mg/L)	0.376	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Dy. Manager (Tech)

Prepared By



Authorized By





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC) Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India **20751-409 99716, 2232177**

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009675P **TR No.** AETRL2021**TR9675 DISPATCH NO:** D2021**TR0770**

Date of Report Issue 04/12/2021 Receiving date 27/11/2021

AETRL2021/ESSAR/SW/1755 Sample Registration No. Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

SURFACE WATER

SAMPLE DESCRIPTION DATE OF SAMPLING DATE OF ANALYSIS

22/11/2021 22/11/2021 to 03/12/2021

LOCATION NEAR GATE NO 02

WATER SOURCE NALLA

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.44	6.5-8.5
2.	Colour (Hazen)	176	300
3.	Total Dissolved Solids (mg/L)	320	1500
4.	Dissolved Oxygen (mg/L)	6.11	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.21	3.0
6.	Chemical Oxygen Demand (mg/L)	62.7	-
7.	Chloride (mg/L)	46.0	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.512	1.5
10.	Sulphate (mg/L)	42.6	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	5.69	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.514	50.0
18.	Zinc (mg/L)	0.289	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Dy. Manager (Tech)

Prepared By



Manager

Authorized By





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 90751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009676P TR No. AETRL2021TR9676 DISPATCH NO: D2021TR0770

Date of Report Issue 04/12/2021 Receiving date 27/11/2021

Sample Registration No. AETRL2021/ESSAR/SW/1756 Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

SAMPLE DESCRIPTION SURFACE WATER
DATE OF SAMPLING 22/11/2021

DATE OF ANALYSIS 22/11/2021 to 03/12/2021

LOCATION NEAR GATE NO 03 WATER SOURCE RIVER SAMPLE

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.31	6.5-8.5
2.	Colour (Hazen)	188	300
3.	Total Dissolved Solids (mg/L)	328	1500
4.	Dissolved Oxygen (mg/L)	6.71	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.03	3.0
6.	Chemical Oxygen Demand (mg/L)	66.2	-
7.	Chloride (mg/L)	41.2	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.528	1.5
10.	Sulphate (mg/L)	38.2	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	8.82	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.136	50.0
18.	Zinc (mg/L)	0.144	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Dy. Manager (Tech)

Prepared By



Authorized By

Manager





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 90751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com



TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009855P TR No. AETRL2021TR9855 DISPATCH NO: D2021TR0792

Date of Report Issue 05/01/2022 Receiving date 25/12/2021

Sample Registration No. AETRL2021/ESSAR/SW/1794 Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

SAMPLE DESCRIPTION DATE OF SAMPLING DATE OF ANALYSIS LOCATION

WATER SOURCE

SURFACE WATER 18/12/2021 18/12/2021 to 04/01/2022

18/12/2021 to 04/01/202

NEAR GATE NO 01

NALLA

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.51	6.5-8.5
2.	Colour (Hazen)	155	300
3.	Total Dissolved Solids (mg/L)	356	1500
4.	Dissolved Oxygen (mg/L)	6.78	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.43	3.0
6.	Chemical Oxygen Demand (mg/L)	76.1	-
7.	Chloride (mg/L)	49.2	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.512	1.5
10.	Sulphate (mg/L)	39.2	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	64.96	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.625	50.0
18.	Zinc (mg/L)	0.259	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Dr. Dinesh K. Uchhariya (Technical Manager)

Reviewed by

Gwallor Gwallor





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC) Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com



TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009856P TR No. AETRL2021TR9856 DISPATCH NO: D2021TR0792

Date of Report Issue 05/01/2022 Receiving date 25/12/2021

AETRL2021/ESSAR/SW/1795 Sample Registration No. Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

SAMPLE DESCRIPTION DATE OF SAMPLING DATE OF ANALYSIS LOCATION WATER SOURCE

SURFACE WATER 18/12/2021

18/12/2021 to 04/01/2022

NEAR GATE NO 02

NALLA

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.37	6.5-8.5
2.	Colour (Hazen)	116	300
3.	Total Dissolved Solids (mg/L)	336	1500
4.	Dissolved Oxygen (mg/L)	6.46	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.25	3.0
6.	Chemical Oxygen Demand (mg/L)	68.3	-
7.	Chloride (mg/L)	48.3	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.508	1.5
10.	Sulphate (mg/L)	47.2	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	5.88	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.336	50.0
18.	Zinc (mg/L)	0.275	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr6+* (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Reviewed by Dr. Dinesh K. Uchhariya (Technical Manager)





Gwalior-474 011, M.P., India 🕾 0751-409 99716, 2232177

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TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-21-000009857P **TR No.** AETRL2021**TR9857** DISPATCH NO: D2021TR0792

Date of Report Issue 05/01/2022 Receiving date 25/12/2021

AETRL2021/ESSAR/SW/1796 Sample Registration No. Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

SAMPLE DESCRIPTION DATE OF SAMPLING DATE OF ANALYSIS LOCATION

WATER SOURCE

SURFACE WATER 18/12/2021 18/12/2021 to 04/01/2022 NEAR GATE NO 03

ANALYSIS REPORT OF SURFACE WATER QUALITY

RIVER SAMPLE

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.33	6.5-8.5
2.	Colour (Hazen)	139	300
3.	Total Dissolved Solids (mg/L)	340	1500
4.	Dissolved Oxygen (mg/L)	6.35	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.31	3.0
6.	Chemical Oxygen Demand (mg/L)	81.6	-
7.	Chloride (mg/L)	45.6	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.510	1.5
10.	Sulphate (mg/L)	43.8	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	3.36	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.142	50.0
18.	Zinc (mg/L)	0.136	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Reviewed by Dr. Dinesh K. Uchhariya (Technical Manager)





Gwalior-474 011, M.P., India **8 0751-409 99716, 2232177**

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TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-22-000010228P DISPATCH NO:D2022TR0808 **TR No.**AETRL2022**TR10228**

04/02/2022 Date of Report Issue Receiving date 27/01/2022

AETRL2021/ESSAR/SW/1904 Sample Registration No. Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

SAMPLE DESCRIPTION DATE OF SAMPLING DATE OF ANALYSIS

LOCATION

WATER SOURCE

SURFACE WATER 19/01/2022 19/01/2022 to 03/02/2022

NEAR GATE NO 02

NALLA

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.49	6.5-8.5
2.	Colour (Hazen)	126	300
3.	Total Dissolved Solids (mg/L)	342	1500
4.	Dissolved Oxygen (mg/L)	6.88	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.16	3.0
6.	Chemical Oxygen Demand (mg/L)	67.8	-
7.	Chloride (mg/L)	52.8	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.449	1.5
10.	Sulphate (mg/L)	41.8	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	5.96	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.278	50.0
18.	Zinc (mg/L)	0.231	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Dr. Dinesh K. Uchhariya (Technical Manager)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC) Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India **8 0751-409 99716, 2232177**

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

DISPATCH NO:D2022TR0808 ULR: TC7405-22-0**00010227P TR No.**AETRL2022**TR10227**

04/02/2022 Date of Report Issue Receiving date 27/01/2022

AETRL2021/ESSAR/SW/1903 Sample Registration No. Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

SAMPLE DESCRIPTION SURFACE WATER DATE OF SAMPLING 19/01/2022 DATE OF ANALYSIS

WATER SOURCE

19/01/2022 to 03/02/2022 LOCATION

NEAR GATE NO 01

NALLA

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.39	6.5-8.5
2.	Colour (Hazen)	128	300
3.	Total Dissolved Solids (mg/L)	344	1500
4.	Dissolved Oxygen (mg/L)	6.86	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.45	3.0
6.	Chemical Oxygen Demand (mg/L)	66.9	-
7.	Chloride (mg/L)	47.5	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.556	1.5
10.	Sulphate (mg/L)	41.8	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	60.8	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.678	50.0
18.	Zinc (mg/L)	0.336	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

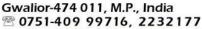
WHERE BDL (BELLOW DETECTION LIMIT)

Reviewed by Dr. Dinesh K. Uchhariya (Technical Manager)





Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II



Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB

TEST REPORT

ULR: TC7405-22-000010229P TR No.AETRL2022TR10229 DISPATCH NO:D2022TR0808

Date of Report Issue 04/02/2022 Receiving date 27/01/2022

Sample Registration No. AETRL2021/ESSAR/SW/1905 Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

SAMPLE DESCRIPTION SURFACE WATER
DATE OF SAMPLING 19/01/2022

DATE OF ANALYSIS 19/01/2022 to 03/02/2022

LOCATION NEAR GATE NO 03 WATER SOURCE RIVER SAMPLE

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.50	6.5-8.5
2.	Colour (Hazen)	142	300
3.	Total Dissolved Solids (mg/L)	350	1500
4.	Dissolved Oxygen (mg/L)	6.55	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.20	3.0
6.	Chemical Oxygen Demand (mg/L)	75.2	-
7.	Chloride (mg/L)	48.1	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.588	1.5
10.	Sulphate (mg/L)	47.2	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	2.88	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.178	50.0
18.	Zinc (mg/L)	0.161	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Pr. Dinesh K. Uchhariya (Technical Manager)



CIN: U73100MP2002PTC015352



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 7 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010459P	TR No.AETRL2022TR10459	DISPATCH No:D2022TR0819
Date of Report Issue	07/03/2022	
Receiving date	25/02/2022	
Sample Registration No.	AETRL2022ESSARSW2	173
Issue to	M/s. ESSAR POWER M	I.P. LTD.
Add.	VILL. BANDHAURA, PC	ST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

Sample Description Surface Water Date of Sampling 18/02/2022

Date of Analysis 18/02/2022 To 05/03/2022

Location Near Gate No 01

Water Source Nalla

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.35	6.5-8.5
2.	Colour (Hazen)	110	300
3.	Total Dissolved Solids (mg/L)	352	1500
4.	Dissolved Oxygen (mg/L)	693	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.15	3.0
6.	Chemical Oxygen Demand (mg/L)	72.2	-
7.	Chloride (mg/L)	44.3	600
8.	Cyanide* (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.452	1.5
10.	Sulphate (mg/L)	47.1	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent* (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	63.2	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.614	50.0
18.	Zinc (mg/L)	0.526	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Dr. Dinesh K. Uchhariya (Technical Manager)







Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 7 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010460P	TR No.AETRL2022TR10460	DISPATCH No:D2022TR0819
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Date of Report Issue 07/03/2022 Receiving date 25/02/2022

Sample Registration No. AETRL2022ESSARSW2174
Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

Sample Description Surface Water Date Of Sampling 18/02/2022

Date Of Analysis 18/02/2022 To 05/03/2022

Location Near Gate No 02

Water Source Nalla

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.51	6.5-8.5
2.	Colour (Hazen)	131	300
3.	Total Dissolved Solids (mg/L)	362	1500
4.	Dissolved Oxygen (mg/L)	6.71	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.23	3.0
6.	Chemical Oxygen Demand (mg/L)	60.2	-
7.	Chloride (mg/L)	44.1	600
8.	Cyanide [*] (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.513	1.5
10.	Sulphate (mg/L)	45.3	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent [*] (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	6.36	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.521	50.0
18.	Zinc (mg/L)	0.403	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

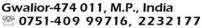
Dr. Dinesh K. Uchhariya (Technical Manager)



CIN: U73100MP2002PTC015352



Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II



Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010461P	TR No.AETRL2022TR10461	DISPATCH No:D2022TR0819

Date of Report Issue 07/03/2022 Receiving date 25/02/2022

Sample Registration No. AETRL2022ESSARSW2175
Issue to M/s. ESSAR POWER M.P. LTD.

Add. VILL. BANDHAURA, POST KARSUALAL, TAHSIL MADA

486886 MADHYA PRADESH

Sample Description Surface Water
Date Of Sampling 18/02/2022

Date Of Analysis 18/02/2022 To 05/03/2022

Location Near Gate No 03 Water Source River Sample

ANALYSIS REPORT OF SURFACE WATER QUALITY

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.47	6.5-8.5
2.	Colour (Hazen)	133	300
3.	Total Dissolved Solids (mg/L)	362	1500
4.	Dissolved Oxygen (mg/L)	6.28	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.36	3.0
6.	Chemical Oxygen Demand (mg/L)	70.1	-
7.	Chloride (mg/L)	41.5	600
8.	Cyanide [*] (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.447	1.5
10.	Sulphate (mg/L)	41.6	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent [*] (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	4.12	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.203	50.0
18.	Zinc (mg/L)	0.178	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Reviewed by

Dr. Dinesh K. Uchhariya

(Technical Manager)

Gwalior Gwalior

CIN: U73100MP2002PTC015352



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India
© 0751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010688P	TR No.AETRL2022TR10688	DISPATCH No:D2022TR0835

Date of Report Issue 05/04/2022 Receiving date 07/03/2022

Sample Registration No. AETRL2022MEL/SW2375
Issue to M/s. Mahan Energen Limited

Add. Vill. Bandhaura, Post Karsualal, Tahsil Mada 486886

Madhya Pradesh

Sample Description Surface Water Date Of Sampling 04/03/2022

Date Of Analysis 04/03/2022 To 04/04/2022

Location Near Gate No 03 Water Source River Sample

Analysis Report of Surface Water Quality

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.30	6.5-8.5
2.	Colour (Hazen)	124	300
3.	Total Dissolved Solids (mg/L)	350	1500
4.	Dissolved Oxygen (mg/L)	6.11	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.63	3.0
6.	Chemical Oxygen Demand (mg/L)	80.2	-
7.	Chloride (mg/L)	47.2	600
8.	Cyanide [*] (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.387	1.5
10.	Sulphate (mg/L)	37.2	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent [*] (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	4.80	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.226	50.0
18.	Zinc (mg/L)	0.110	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Dr. Dinesh K. Uchhariya (Technical Manager)



CIN: U73100MP2002PTC015352



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 90751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010686P	TR No.AETRL2022TR10686	DISPATCH No:D2022TR0835
Date of Report Issue	05/04/2022	
Receiving date	07/03/2022	
Sample Registration No.	AETRL2022MEL/SW23	73
Issue to	M/s. Mahan Energen l	imited
Add.	Vill. Bandhaura, Post K	arsualal, Tahsil Mada 486886

Madhya Pradesh

Sample Description Surface Water Date of Sampling 04/03/2022

Date of Analysis 04/03/2022 To 04/04/2022

Location Near Gate No 01

Water Source Nalla

Analysis Report of Surface Water Quality

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.48	6.5-8.5
2.	Colour (Hazen)	140	300
3.	Total Dissolved Solids (mg/L)	338	1500
4.	Dissolved Oxygen (mg/L)	6.11	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.25	3.0
6.	Chemical Oxygen Demand (mg/L)	81.8	-
7.	Chloride (mg/L)	42.6	600
8.	Cyanide [*] (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.489	1.5
10.	Sulphate (mg/L)	44.6	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent [*] (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	60.8	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.632	50.0
18.	Zinc (mg/L)	0.517	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Reviewed by

Dr. Dinesh K. Uchhariya

(Technical Manager)



CIN: U73100MP2002PTC015352



Approved: by Ministry of Environment, Forest and Climate Change (MoEF&CC)
Registered Office: 63/1, Kailash Vihar, Near Income Tax Office, City Center-II

Gwalior-474 011, M.P., India 20751-409 99716, 2232177

Email: aetrl2016@gmail.com, aelgwalior@gmail.com





TEST CERTIFICATE: CHEMICAL LAB TEST REPORT

ULR: TC740522000010687P TR No.AETRL2022TR10687 DISPATCH No:D2022TR0835

Date of Report Issue 05/04/2022 Receiving date 07/03/2022

Sample Registration No. AETRL2022MEL/SW2374
Issue to M/s. Mahan Energen Limited

Add. Vill. Bandhaura, Post Karsualal, Tahsil Mada 486886

Madhya Pradesh

Sample Description Surface Water Date Of Sampling 04/03/2022

Date Of Analysis 04/03/2022 To 04/04/2022

Location Near Gate No 02

Water Source Nalla

Analysis Report of Surface Water Quality

S. No.	Parameters	Result	IS: 2296 Class 'C' Limit
1.	рН	7.38	6.5-8.5
2.	Colour (Hazen)	139	300
3.	Total Dissolved Solids (mg/L)	370	1500
4.	Dissolved Oxygen (mg/L)	6.32	4.0
5.	Biochemical Oxygen Demand (mg/L)	2.05	3.0
6.	Chemical Oxygen Demand (mg/L)	67.8	-
7.	Chloride (mg/L)	46.9	600
8.	Cyanide [*] (mg/L)	BDL	0.05
9.	Fluoride (mg/L)	0.555	1.5
10.	Sulphate (mg/L)	40.1	400
11.	Phenolic Compound (mg/L)	BDL	0.005
12.	Anionic detergent [*] (mg/L)	BDL	1.0
13.	Oil and Grease (mg/L)	BDL	0.1
14.	Nitrate (mg/L)	8.89	50
15.	Arsenic (mg/L)	BDL	0.2
16.	Copper (mg/L)	BDL	1.5
17.	Iron (mg/L)	0.589	50.0
18.	Zinc (mg/L)	0.488	15.0
19.	Cadmium (mg/L)	BDL	0.01
20.	Chromium as Cr ^{6+*} (mg/L)	BDL	0.05
21.	Selenium (mg/L)	BDL	0.05
22.	Lead (mg/L)	BDL	0.1
23.	Mercury (mg/L)	BDL	-

WHERE BDL (BELLOW DETECTION LIMIT)

Reviewed by

Dr. Dinesh K. Uchhariya

(Technical Manager)



Annexure - 10

CSR summary for FY 2021 - 22

Sr. No	Budget Line Item	Expenses in FY-2021-22	Remarks
1	Education	10044864.00	School (Salary, Uniforms, Stationery, Books, Education fees, Misc program etc)
2	Community Health	4597632.00	Hospital & Ambulance
3	Sustainable Livelihood Development	884232.00	Water Tanker & Electricity
4	Rural Infrastructure Development	934804.00	Drain Cleaning, Road Repair ,Handpump Repair
5	Admin Expense	1000000.00	Vehicles, fooding, Tent ,fooging, Misc.
	Total	17461532.00	

CSR Initiatives Mahan Enegen Limited



Providing quality Education through Saraswati School

Saraswati Shishu Mandir School – Nagwa

- Total School strength 903 Students
- Teaching staff 33 Non-Teaching Staff 10



Students Enrolled 2021-22				
SL	Class	Total		
		В	G	Total
1	Nursery	24	13	37
2	KG	35	28	63
3	1	38	39	77
4	2	34	33	67
5	3	28	39	67
6	4	39	26	65
7	5	34	33	67
8	6	48	31	79
9	7	69	26	95
10	8	42	38	80
11	9	33	25	58
12	10	43	22	65
	11&12	46	37	83

Facilities for School Children

- Free books and stationeries
- Free school dress and shoes
- Free Winter Wear
- Facilities in School
 - Internet Facility
 - Library
 - Computer Lab
 - Sports Material
 - Musical Instruments
 - Playground
 - Safe drinking water
- Learning & Exposure visit



 Promoting participation of school children in district and state level Sports, Quiz, Painting, Rangoli, extempore etc

School performance



Over the period, Saraswati Shishu Mandir school children performance are getting outstanding and in the year 2018, 88% children passed with 26 children scoring first division.

Saraswati Shishu Mandir Board Exam Result		
Year Pass Percentage		
2017-18	87.93%	
2018-19 85.00%		

Education

Linking dropout children to school

Intervention made towards linking dropout children of Nagwa, Karsualal, Khairahi and Bandhoura Village to school. Total of 226 children in the age group of 6 to 14 years were linked / regularized through home visit, interaction with parents and children, interface with teachers.



volunteering in school

For improving the learning outcome and personality development Essar associate takes weekly classes in school of intervention area







W Employee Volunteering

The Sanitization & Cleaning of school & Hospital is done by the team.



Thank You

IN THE NATIONAL COMPANY LAW TRIBUNAL PRINCIAL BENCH NEW DELHI

Company Petition No. (IB)863(PB)/2020

IA	-2829,	IA	-3286,
IA	-3293,	IA	-3318,
IA	-3396,	IA	-3614,
IA	-3862,	IA	-3869
IA	-,4099,	IA	-3608,
IA	-3619,	IA	-3620,
IA	-3621,	IA	-3015,
IA	-2897,	IA	-2785,
IA	-4367 of	202	1

IN THE MATTER OF:

ICICI Bank Ltd.

...Financial Creditor

Versus

Essar Power M.P. Ltd.

...Corporate Debtor

AND

IN THE MATTER OF I.A.2829 OF 2021:

Under Section:30(6) read with 31(1) of IBC,2016

Mr. Ashish Chhawchharia Resolution Professional of Essar Power M.P Ltd. Grant Thronton, 10C, Hungerford Street, Kolkata-700017, West Bengal

...Applicant

Page 1 of 49

C.P. No. (IB)863(PB)/2020 ICICI Bank Ltd. Vs. Essar Power M.P. Limited

AND

In the Matter Of I.A.3286 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

Balaji Minerals
Through Authorised Signatory
1-B, Vidyut Vihar Colony, Shaktinagar,
Distt. Sonehabadra, UP-231222

...Applicant/Objector

Versus

Essar Power M.P. Ltd.
Through RP
Grant Thorton, 11th Floor, Tower II,
One International Centre, SB. Marg
Elphinstone (W), Mumbai-400013

...Respondent

AND

IN THE MATTER OF I.A.3293 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

Pawan Associates

Through its Authorized Signatory

Ward No. 23, Amlori, Singrauli,

Madhya Pradesh-486886

...Applicant/Objector

Versus

Essar Power M.P. Ltd.
Through RP
Grant Thorton, 11th Floor, Tower II,
One International Centre, SB. Marg
Elphinstone (W), Mumbai-400013

...Respondent

C.P. No. (IB)863(PB)/2020 ICICI Bank Ltd. Vs. Essar Power M.P. Limited Page 2 of 49

AND

IN THE MATTER OF I.A.3318 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

V2P Engineering Services Private Limited BC No. 118/124, Matrix Tower, Sector- 132, Noida-201301

...Objector/Applicant

Versus

Essar Power M.P. Ltd.
Through RP
Grant Thorton, 11th Floor, Tower II,
One International Centre, SB. Marg
Elphinstone (W), Mumbai-400013

...Respondent

AND

IN THE MATTER OF I.A.3396 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

S.M. Automart Private Limited
Through its Authorized Signatory
1st Floor, Plot No. 322, Beside, B.N Shiksha Mandir,
Maa Vishno Nagar. Chandpur,
Lahratara, Varanasi, Uttar Pradesh-221106 ...Objector/Applicant

Versus

Essar Power M.P. Ltd. Through RP Grant Thorton, 11th Floor, Tower II, One International Centre, SB. Marg Elphinstone (W), Mumbai-400013

...Respondent

Page 3 of 49

C.P. No. (IB)863(PB)/2020 ICICI Bank Ltd. Vs. Essar Power M.P. Limited

AND

IN THE MATTER OF I.A.3614 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

M/s Shree Enterprises
Through its Partner
House No. 719G, Tel Mill Gali, Gatu Road,
Piska More, Hehal, Ranchi, Jharkand

...Applicant/Objector

Versus

Essar Power M.P. Ltd.
Through RP
Grant Thorton, 11th Floor, Tower II,
One International Centre, SB. Marg
Elphinstone (W), Mumbai-400013

...Respondent

AND

IN THE MATTER OF I.A3862 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

M/s SK Construction
Through its authorized signatory
Transport Nagar, Shiva Park
Renukoot, Sonebadhra
UP-231217

...Objector/ Applicant

Versus

Essar Power M.P. Ltd. Through RP Grant Thorton, 11th Floor, Tower II, One International Centre, SB. Marg Elphinstone (W), Mumbai-400013

...Respondent

Page 4 of 49

C.P. No. (IB)863(PB)/2020 ICICI Bank Ltd. Vs. Essar Power M.P. Limited

AND

IN THE MATTER OF I.A3869 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

M/s J B Transport

Through its Authorised Signatory

Transport Nagar, Shiva Park,

Renukoot, Sonebadhra

UP-231217

...Objector/ Applicant

Versus

Essar Power M.P. Ltd.
Through RP
Grant Thorton, 11th Floor, Tower II,
One International Centre, SB. Marg
Elphinstone (W), Mumbai-400013

...Respondent

IN THE MATTER OF I.A 4099 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

Central Transmission Utility Of India Limited Plot No. 2, Sector 29 Gurgaon, Haryana-122001

...Applicant

Versus

Ashish Chhawchharia Resolution Professional of Essar Power M.P Ltd. Grant Thronton, 10C, Hungerford Street, Kolkata-700017, West Bengal

....Respondent No.1

Adani Power Limited Resolution Applicant

...Respondent No.2

Page 5 of 49

AND

IN THE MATTER OF I.A 3608,3619,3620 AND 3621 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

Committee of creditors of Essar M.P. Ltd. Through ICICI Bank Limited NBCC Place, Bhishma Pitamah Marg New Delhi – 110 003

...Applicant

AND

IN THE MATTER OF I.A 3015 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

Central Transmission Utility Of India Limited Plot No. 2, Sector 29 Gurgaon, Haryana-122001

...Applicant

Versus

1Ashish Chhawchharia Resolution Professional of Essar Power M.P Ltd. Grant Thronton, 10C, Hungerford Street, Kolkata-700017, West Bengal

....Respondent No.1

2 CoC of Essar Power M.P Ltd. NBCC Place, Bhishma Pitamah Marg New Delhi – 110003

...Respondent No.2

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AND

IN THE MATTER OF I.A 2897 OF 2021

Under Section - 30(2)(a) of IBC

SHAARC Projects Ltd.

....Operational Creditor/Applicant

Versus

Ashish Chhawchharia Resolution Professional of Essar Power M.P Ltd. Grant Thronton, 10C, Hungerford Street, Kolkata-700017, West Bengal

....Respondent

AND

IN THE MATTER OF I.A 2785 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

U.P. Jal Vidyut Nigam Limited ...Applicant

Versus

Essar Power M.P. Ltd.
Through RP
Grant Thorton, 11th Floor, Tower II,
One International Centre, SB. Marg
Elphinstone (W), Mumbai-400013

....Respondent

AND

IN THE MATTER OF I.A 4367 OF 2021

Under Section - 60(5) of IBC, 2016 r/w Rule 11 of NCLT Rules, 2016

Trikaya Township Private LimitedApplicant

Date of Pronouncement - 01.11.2021

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CORAM:

SH.BHASKARA PANTULA MOHAN, HON'BLE ACTING PRESIDENT
SH. HEMANT KUMAR SARANGI, HON'BLE MEMBER (T)

PRESENT:

IA 2829/2021 - For Resolution Professional - Mr Ramji Srinivasan, Sr Adv, Mr Abhijeet Sinha, Mr Diwakar Maheshwari, Mr Rajeev Vidhani, Mr Vishnu Shriram, Aditya V Singh, Mr Ashwij Ramaiah, Adv. Kairav Trivedi, -IA Nos. 3286 / 2021, 3318 / 2021, 3293 / 2021, 3396 / 2021, 3614 / 2021, 3869 / 2021, 3862 / 2021-Adv. Piyush Singh, Adv. Aditi Sinha, Adv. Akshay Srivastava for the Applicants/Operational Creditor, Mr. P.Nagesh, Sr. Adv. with Mr. Shubham Arya, Ms. Poorva Saigal, Ms. Tanya Sareen and Mr. Akshay Sharma, Advocates for CTU (I.A. Nos. 3015 and 4099 of 2021), Mr. Daksh Kadian, Advocates for CoC (Applicants in IA 3609/21; IA 3619/21; IA 3620/21; IA 3621/21)Mr. Kairav Trivedi, PCA for SHAARC In IA 2897 of 2021, Mr. Divyam Agarwal and Ms. Geetanjali Shahi Advocates for the Applicant in IA No. 2785/ 2021 for UP Jal Vidyut Nigam Ltd, Mr. Nakul Mohta, Applicant in IA No. 4367 of 2021

ORDER

PER: BHASKARA PANTULA MOHAN, ACTING PRESIDENT

IA No. 2829/2021 has been filed by Ashish Chhawchharia, the Resolution Professional of the Essar Power M.P. Ltd. (hereinafter referred as 'Applicant/ Resolution Professional') for approval of the Resolution plan submitted by the Adani Power Ltd. (hereinafter referred as 'Successful Resolution Applicant').

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- That the prayers made in the IA No. 2829/2021, which is taken up for consideration, are reproduced below:
 - (a) Allow the present application;
 - (b) Pass an order approving the Resolution Plan dated 11.05.2021 (read with addendum dated 12.05.2021) submitted by Adani Power Limited (as annexed at Annexure Y) under Section 31(1) of the IBC;
 - (c) Pass an order granting the reliefs and concessions sought in Section 9 of the Successful Resolution Plan dated 11 May 2021 (read with addendum dated 12 May, 2021) submitted by Adani Power Limited (as annexure Y); and
 - (d) Pass any such other order or orders it may deem fit and necessary in the interest of equity and justice;
- 3. To put succinctly, the facts of the case are that the Financial Creditor, ICICI Bank Ltd. filed an Application bearing No. IB-863(PB) 2020 under Section 7 of the I&B Code for initiation of Corporate Insolvency Resolution Process (CIRP) against the Corporate Debtor, Essar Power M.P. Ltd. The said Application was admitted by this Tribunal vide Order dated 29.09.2020 and the Applicant was appointed as the Interim Resolution Professional (IRP). It is added that the Applicant continued as the Resolution Professional of the Corporate Debtor.
- 4. In terms of the Regulation 6(1) of the Insolvency and Bankruptcy Board of India (Insolvency Resolution Process for Corporate Persons) Regulations, 2016, the said Interim Resolution Professional made a public announcement in Form-A on 10.10.2020. The public announcement was made in the newspaper namely Business Standard Delhi- Hindi Edition,

C.P. No. (IB)863(PB)/2020 ICICI Bank Ltd. Vs. Essar Power M.P Limited Page 9 of 49

Raj Express- Jabalpur- Hindi Edition and Financial Express- All India English Edition. The copy of the same is also uploaded on the website of Insolvency and Bankruptcy Board of India (IBBI).

5. The Interim Resolution Professional constituted a Committee of Creditors, which comprised of the following financial creditors with voting share given against each Financial Creditor:

S. No No.	Name of the Creditor	Voting Share%age
1.	ICICI Bank	29.19
2.	REC Limited	24.53
3.	Power Finance Corporation	24.26
4.	Punjab National Bank	15.98
5.	Edelweiss Asset Reconstruction Company Limited	6.04

- 6. That the 'Form-G' was published on 12.11.2020 in the newspapers namely, All India Edition of Financial Express (in English edition), Delhi Edition of Business Standard (English), Mumbai edition. That the last date for submitting EOI was initially decided for 27.11.2020, However the same was extended to 04.12.2020 and then again to 14.12.2020. That the last date for submission of Resolution Plan was fixed for 16.01.2020.
- 7. It is stated by the Applicant that the following participants in the EOI made it to the Final list of PRA –

- a) Adani Power Limited;
- b) Vedanta Limited;
- c) Jindal Power Limited and
- d) NTPC Limited.

The same were reflected in the final list submitted by the Applicant dated 27.12.2020, which was in accordance with Regulation 36A (12) of the IBBI (Insolvency Resolution Process for Corporate Persons Regulations, 2016 (hereinafter referred as "CIRP Regulations".

- It is stated by the Applicant from the above 4 PRA only 2 PRAs i.e
 Vedanta Limited and Adani Power Limited submitted their Resolution Plan.
- 9. That both the PRA made changes to their Resolution Plans and finally submitted their revised Resolution Plan alongwith addendum. The voting for the approval of Resolution plan was conducted in the 11th Meeting of CoC held on 21.05.2021.
- 10. It is stated by the Applicant that the plan of the Adani Power Ltd was approved by the CoC by 100% votes. The scanned copy of the voting sheet is reproduced below

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ANNEXURE - X

100 100	ESSA	R POWER M	LIMITED	. Under CIR	р		Airis	EAURE - A		224
	Voting Results of the Eleventh Meeting of	And the second second	Name and Address of the Owner, where		-	adiourne	d and 21 A	1ay 2021		321
	E-voting Concl		_				u anu zi n	may zuz r		
			Agenda Item Number (See Notes Below)							
SI. No.	Name of Financial Creditor	Voting Share (%)	B-1(A)	B-1(B)	B-1(C)	B-1(D)	B-1(E)	B-1(F)	B-1(G)	B-1(H
1	ICICI Bank Limited	29.19%	For	Against	For	For	For	For	For	For
2	Rural Electrification Corporation Limited	24.53%	For	Against	Against	For	For	Against	Against	For
3	Power Financial Corporation Limited	24.26%	For	Against	For	For	For	Against	Against	For
4	Punjab National Bank	15.98%	For	Against	Against	Against	Against	Against	For	For
5	Edelweiss Asset Reconstruction Company Limited	6.04%	For	Against	For	For	For	For	For	For
STORY TO	TOTAL VOTES	in the second	TENTON HIS	1 8 1	THE PARTY NAMED IN	1		G 8 5	3 (000)	TO SEE
Total Perce	ntage Voting FOR the Resolution(s)		100.00%	0.00%	59.49%	84.02%	84.02%	35.23%	51.22%	100.00
Total Perce	ntage Voting AGAINST the Resolution(s)	100.00%	0.00%	100.00%	40.51%	15.98%	15.98%	64.77%	48.78%	0.00%
Total Perce	ntage ABSTAINED from Voting on the Resolution(s)		0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
		Results	Carried	Not carried	Carried	Carried	Carried	Not parried	Carried	Carrie
NOTES:										
tem B-1(A):	Approval of the Resolution Plan submitted by Adani Power Limit	ted								
tem B-1(B):	Approval of the Resolution Plan submitted by Vedanta Limited									
tem B-1(C):	Approval of Liquidation Cost in accordance with Regulation 398	of CIRP Regula	itions							
Item B-1(D):	Assessment of sale as a going concern in accordance with Reg	ulation 39C of C	IRP Regulat	tions						
Item B-1(E):	Fee of the Liquidator in accordance with Regulation 39D of CIR	P Regulations								

11. It is further stated by the Applicant that subsequent to the Approval of the Resolution Plan, the Resolution Applicant has submitted Performance

Item B-1(G): To approve authorization of sub-committee on behalf the Committee of Creditors to finalise the pleadings, affidavits, revisions and any other documents.

Item B-1(H): To approve appointment of authorized representative of the members of the Committee of Creditors on the Monitoring Committee of Committee.

Guarantee dated 22.06.2021 worth Rs 150 Crores.

12. That the details of Payments given to the various stakeholders of the Corporate Debtor is given in Form H of the Resolution Plan. The extracts of the same are reproduced overleaf –

Item B-1(F): To approve appointment of legal advisors to the Committee of Creditors

7. The amounts provided for the stakeholders under the Resolution Plan is as under:

SL.	Category	Sub-Category			(Am	ount in INI
No.	of Stakehold er*	of Stakeholder	Amount Claimed	Amount	Amount Provided under the Plan#	Amount Provided to the Amount Claimed
(1)	(2)	(3)	(4)	(5)	(6)	(7)
Secured Financial Creditors	Financial	(a) Creditors not having a right to vote under sub- section (2) of section 21		-	-	-
		(b) Other than (a) above: (i) who did not vote in favour of the resolution Plan (ii) who voted in favour of the	-	-	-	-, -
1		resolution plan	124,391,359,685	120 129,831,5 67	25,000,00 0,000	20.098%
		Total[(a) + (b)]	124,391,359,685	120,129,831,5 67	25,000,00 0,000	20.098%

Gran	d Total		202,090,141,846	127,236,024,5	25,000,00	12.37%
4	Other debts and dues	-	*	*	-	- 3
		Total[(a) + (b)]	72,722,830,658	6,560,255,180	NIL	NIL
		(b) Other than (a) above; (i) Government (ii) Workmen (iii) Employees (iv) Others	42,494,439,721 - 176,425,856 29,504,909,458	5,446,721,303 - 137 393,857 429 731,129	NIL NIL	NIL NIL NIL
3	Operatio nal Creditors	(a) Related Party of Corporate Debtor	547,055,623	546,408,891	NIL	NIL.
		Total[(a) + (b)]	4,975,951,504	545 937,816	NIL	NIL
		(ii) who voted in favour of the resolution plan	126,500,000	126,500,000	NIE.	NIL
		(i) who did not vote in favour of the resolution Plan		-	-	-
		(b) Other than (a) above:	- 1			-
	Unsecure d Financial Creditors	(a) Creditors not having a right to vote under sub- section (2) of section 21	0.540.000000000000000000000000000000000	419 437,816	NIL	NIL

[#] Amount provided over time under the Resolution Plan and includes estimated value of non-cash components. It is not NPV.

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13. That the Liquidation value of the Corporate Debtor is disclosed as Rs1733.4 Crores and the Fair Market Value of the Corporate Debtor is disclosed as Rs 2657.2 Crores in the Form H.

14. That the Resolution Applicant has also enclosed the Affidavit stated that they are not barred under Section 29A of IBC, 2016 to submit the Resolution Plan.

15. With respect to compliances made under the Resolution Plan. The Applicant has stated the following in Form H. The extracts of Form H are reproduced overleaf

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9. The compliance of the Resolution Plan is as under:

Section of the Code / Regulation No.	Requirement with respect to Resolution Plan	Clause of Resolution Plan	(Yes / No)
25(2)(h)	Whether the Resolution Applicant meets the criteria approved by the CoC having regard to the complexity and scale of operations of business of the CD?		Yes
Section 29A	Whether the Resolution Applicant is eligible to submit resolution plan as per final list of Resolution Professional or Order, if any, of the Adjudicating Authority?	Covering Letter	Yes
Section 30(1)	Whether the Resolution Applicant has submitted an affidavit stating that it is eligible?	An affidavit dated January 11, 2021 has been submitted	Yes
Section 30(2)	Whether the Resolution Plan- (a) provides for the payment of insolvency resolution process costs?	Section 2.1	Yes
	(b) provides for the payment to the operational creditors?	Section 2.2	Yes
	(c) provides for the payment to the financial creditors who did not vote in favour of the resolution plan?	Section 2.3.3	Yes
	(d) provides for the management of the affairs of the corporate debtor?	Section 7 read with Schedule 2	Yes
	(e) provides for the implementation and supervision of the resolution plan?	Section 3, Section 7 and Section 8	Yes
	(f) contravenes any of the provisions of the law for the time being in force?	Clause 5(e) of the Covering Letter	Yes (the resolution plan is in compliance)



Section 30(4)	Whether the Resolution Plan		
	(a) is feasible and viable, according to the CoC?	Section 5 read with Schedule 2	You
	(b) has been approved by the CoC with 66% voting share?	The Resolution Plan has been approved by the CoC, by a vote of 160%	Yes
Section 31(1)	Whether the Resolution Plan has provisions for i.s effective implementation plan, according to the CoC?	Section 7	Yes
Regulation 35A	Where the resolution professional made a determination if the corporate debtor has been subjected to any transaction of the nature covered under sections 43, 45, 50 or 66, before the one hundred and fifteenth day of the insolvency commencement date, under intimation to the Board?	The determination was made on January 31, 2021	Yes
Regulation 38(1)	Whether the amount due to the operational creditors under the resolution plan has been given priority in payment over financial creditors?	Section 2.2	Yes
Regulation 38(1A)	Whether the resolution plan includes a statement as to how it has dealt with the interests of all stakeholders?	Section 2.14.1 read with Section 2	Yes
Regulation 38(1B)	 (i) Whether the Resolution Applicant or any of its related parties has failed to implement or contributed to the failure of implementation of any resolution plan approved under the Code. (ii) If so, whether the Resolution Applicant has submitted the statement giving details of such non-implementation? 	Section 1,7.2	Yes (complied w'th)
Regulation 38(2)	Whether the Resolution Plan provides: (a) the term of the plan and its implementation schedule?	Section 1.6 and Section 8.8	Yes
	(b) for the management and control of the business of the corporate debtor during its term?	Section 7 read with Schedule 2	Y28
	(c) adequate means for supervising is implementation?	Section 7 read with Section 8	Yes
38(3)	Whether the resolution plan demonstrates that — (a) it addresses the cause of default?	Schedule 2	Yes
ĺ	(b) it is feasible and viable?	Section 5 read with Schedule 2	Yes
	(c) it has provisions for its effective implementation?	Section 7 read with Section 8	Yes

	(d) it has provisions for approvals required and the timeline for the same?	Section 8 read with Schedule 4	Yes
	(e) the resolution applicant has the capability to implement the resolution plan?	Section 5 read with Schedule 2	Yes
39(2)	Whether the RP has filed applications in respect of transactions observed, found or determined by him?	The application has been filed on May 21, 2021	Yes
Regulation 39(4)	Provide details of performance security received, as referred to in sub-regulation (4A) of regulation 36B.	Performance Security in the form of a Bank Gusrantee dated June 22, 2021 has been submitted	Yes

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16. That the Applicant has also sought various reliefs and concessions as mentioned under Resolution Plan vide its Section 6. The scanned copy of the waivers sought are reproduced below

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SECTION 6: RELIEFS AND WAIVERS

- Any reliefs requested to be granted by the NCLT to the Resolution Applicant shall not be construed as conditionalities to the implementation of this Resolution Plan. The Resolution Applicant submits that, at the time of seeking approval from the NCLT, the reliefs provided below shall be included, with such modifications as may be considered necessary by the NCLT:
 - On and from the NCLT Approval Date, by order of the NCLT sanctioning this Resolution Plan, a restraint on, and prohibition of, all Adverse Actions shall be deemed to be declared until the Effective Date;
 - (ii) On and from the NCLT Approval Date, by order of the NCLT sanctioning this Resolution Plan, all counter-party(ies) to the Company Contracts shall be deemed to have given their approval for change in ownership of the Corporate Debtor (as specified in this Resolution Plan) with effect from the date of the Effective Date.
 - (iii) The Resolution Applicant considers the uninterrupted supply of water and use of land in terms of the Articles of Arrangement signed with Uttar Pradesh Jal Vidyut Nigam Limited ("UPJVNL") on December 23, 2009 ("UPJVNL Agreement") for permission for use of land and water drawl, to be critical to preserve the value of the Corporate Debtor and to maintain its status as a going concern. Accordingly, the UPJVNL Agreement shall renew for a period of 12 months from the Effective Date in terms of this Resolution Plan and continue in full force and effect and shall remain valid and binding against the Corporate Debtor and UPJVNL.
 - (iv) On and from the NCLT Approval Date, by order of the NCLT sanctioning this Resolution Plan, the Township Lease Agreement dated May 16, 2011 entered with Trikaya Township Limited shall be deemed to be terminated, with such termination being effective from the NCLT Approval Date. Any claims or liabilities arising as a consequence of such termination shall be deemed to be relinquished, cancelled and written-off on the NCLT Approval Date.
 - (v) On and from the NCLT Approval Date, by order of the NCLT sanctioning this Resolution Plan, all Related Party contractual arrangements entered into by the Corporate Debtor shall be deemed to be terminated, with such termination being effective from the NCLT Approval Date. Any claims or liabilities arising as a consequence of such termination shall be deemed to be relinquished, cancelled and written-off on the NCLT Approval Date.
 - (vi) As the Resolution Applicant is required to take over the Corporate Debtor's Business on a 'going concern' basis, all consents, licenses, approvals, clearances, rights, entitlements, benefits and privileges whether under law, contract, lease or license, granted in favour of the Corporate Debtor or to which the Corporate Debtor is entitled or accustomed to, shall continue to remain valid, notwithstanding any provision to the contrary in their terms, and provided that in case of consents, licenses, approvals, rights, entitlements, benefits and privileges that have expired or lapsed, notwithstanding that they may have already lapsed or expired due to any breach, non-compliance or efflux of time, be deemed to continue without disruption for the benefit of the Corporate Debtor, for a period of 12 (twelve) months from the Effective Date or such other period.

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as required under Applicable Law. Further, no coercive actions shall be taken against Resolution Applicant or Corporate Debtor post NCLT Approval Date towards lapse of any consents, licenses, approvals, clearances etc. under the Applicable Law during the CIRP Period.

- (vii) The Resolution Applicant in the event of being declared successful shall be given an exemption of three (3) years from the Effective Date to correct, amend and remedy for (i) 190% utilization of fly ash; (ii) CSR Expenses, as required under the Environmental Clearance issued by the relevant Government and Statutory Authorities.
- (viii) The time period provided to Corporate Debtor to install flue gas desulfurization system (FGD) for Unit 1 and Unit 2 shall be extended to 31 March 2023 and no coercive action be taken against the Corporate Debtor or Resolution Applicant for noncompliance during such period.
- (ix) The Resolution Applicant and the Corporate shall be deemed to have received a waiver from all actions, Proceedings or penalties under any applicable Law for any Non-Compliance, including in connection with any prior transfer of assets, contracts or business by the Corporate Debtor.
- (x) All Assets whether leased or owned by the erstwhile Promoters, other individuals, Related Parties or affiliates of the eratwhile Promoters, which are integral to the operations of the Project shall yest with the Corporate Debtor.
- (xi) The implementation of the Resolution Plan by the Resolution Applicant and any change in control occurring pursuant thereto shall not impact or breach the validity of any such agreements, contracts (including but not limited to PPAs and FSAs) etc, to which the Corporate Debtor is a party to.
- (xii) The Ministry of Environment and Forest to waive all past non-compliances of the Corporate Debtor and an additional period of 36 months from the Effective Date to be provided for complying with all the emission norms for installation of FGD.
- (xiii) All permits, clearances and necessary approvals for transportation of coal by road which have been obtained by the Corporate Debtor shall be extended for 36 months from the Effective Date.
- (xiv) Any stamp duty liabilities or Tax liability arising pursuant to the transactions contemplated under this Resolution Plan shall be exempted or waived off.

It is hereby clarified that the non-grant of any of the aforementioned reliefs shall not be considered as modification of any of the other terms contained in this Resolution Plan, which shall continue to have the binding effect in terms of this Resolution Plan.

17 That before giving any observations on the Resolution Plan placed before this Adjudicating Authority, it is pertinent to mention that the Resolution Plan and objections were heard at length on 21.09.2021 and 25.09.2021. That all the counsels who appeared for the parties which objected the Resolution Plan, were present and have marked their presence. However inadvertently in the order dated 28.09.2021, it is mentioned that only IA 2829/2021 is reserved but the non mentioning of other IAs as

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'reserved' was a clerical mistake. It is also pertinent to mention that no next date of hearing was given in any of the IAs listed on 28.09.2021. Further neither the matter was mentioned on any subsequent date, nor any fresh IA was filed after 28.09.2021application. Even when matter was reserved on 28.09.2021 there was no objection whatsoever made by an of the parties asking time for further arguments because the matters were completely heard.

18 That in all the IAs filed as an objection, the pleadings are complete and even Written Submissions are filed in most of the IAs. Therefore all the objections are decided on the basis of the material available on record.

IA 3286, IA 3293, IA 3318, IA 3396, IA 3614, IA 3862 , IA 3869, IA 4099 of 2021

19. That the Resolution Plan is objected by the Operational Creditors and other entities. Therefore before adjudicating the resolution plan it is necessary to go through the objections made against the Resolution Plan. That IA 3286, IA 3293, IA 3318, IA 3396, IA 3614, IA 3862, IA 3869, IA 4099 of 2021 are filed filed by the Operational Creditors. Their main grievance is that the Operational Creditor are being paid 'NIL' value in the Resolution Plan.

20. It is further stated by the Applicants of these IAs that the Resolution Plan contravenes the provision of Section 30(2)(b) of IBC, 2016 and Regulation 38 of the CIRP Regulations. They further placed reliance on the Judgement of Hon'ble Supreme Court passed in the matter of Essar

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Steel India Ltd. Committee of Creditors Vs Satish Kumar Gupta to submit that although the decision vests with the CoC to approve a resolution plan, however if the plan does not confirm to the mandatory contents which must be provided for in a resolution plan. The extracts of the Judgement are reproduced below –

- 44. The minimum value that is required to be paid to operational creditors under a resolution plan is set out under Section 30(2)(b) of the Code as being the amount to be paid to such creditors in the event of a liquidation of the corporate debtor under Section 53. The Insolvency Committee constituted by the Government in 2018 was tasked with studying the major issues that arise in the working of the Code and to recommend changes, if any, required to be made to the Code. The Insolvency Committee Report, 2018 (hereinafter referred to as "The Committee Report, 2018"), inter alia, deliberated upon the objections to Section 30(2)(b) of the Code, inasmuch as it provided for a minimum payment of a "liquidation value" to the operational creditors and nothing more, and concluded as follows:"
- 21. That in response to these objections it is stated by the RP and CoC that the Approved Resolution Plan complies with the provisions of the Code read with CIRP Regulations. It is stated that the approved resolution plan provides for the total payment of Rs 2500 Crores. It is added that that the total admitted claim received in regard to the Financial Creditors comes to the tune of Rs 12067,57,69,383 and the Total claim of the Operational Creditors comes to the tune of Rs 97,04,70,865. That the Liquidation value of the Corporate Debtor is around 1733 Crores. It is emphasized by the Applicant and the CoC that the Liquidation value of the Operational

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Creditors in the Resolution Plan in "NIL". Therefore there is no illegality in the approved Resolution Plan.

22 That the Applicant has placed reliance on the Para 55 of the Judgement of Hon'ble Supreme Court passed in the matter of Essar Steel India Ltd. Committee of Creditors Vs Satish Kumar Gupta that-

"56. By reading paragraph 77 de hors the earlier paragraphs, the Appellate Tribunal has fallen into grave error. Paragraph 76 clearly refers to the UNCITRAL Legislative Guide which makes it clear beyond any doubt that equitable treatment is only of similarly situated creditors. This being so, the observation in paragraph 77 cannot be read to mean that financial and operational creditors must be paid the same amounts in any resolution plan before it can pass muster. On the contrary, paragraph 77 itself makes it clear that there is a difference in payment of the debts of financial and operational creditors, operational creditors having to receive a minimum payment, being not less than liquidation value, which does not apply to financial creditors. The amended Regulation 38 set out in paragraph 77 again does not lead to the conclusion that financial and operational creditors, or secured and unsecured creditors, must be paid the same amounts, percentage wise, under the resolution plan before it can pass muster. Fair and equitable dealing of operational creditors rights under the said Regulation involves the resolution plan stating as to how it has dealt with the interests of operational creditors, which is not the same thing as saying that they must be paid the same amount of their debt proportionately.

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Also, the fact that the operational creditors are given priority in payment over all financial creditors does not lead to the conclusion that such payment must necessarily be the same recovery percentage as financial creditors. So long as the provisions of the Code and the Regulations have been met, it is the commercial wisdom of the requisite majority of the Committee of Creditors which is to negotiate and accept a resolution plan, which may involve differential payment to different classes of creditors, together with negotiating with a prospective resolution applicant for better or different terms which may also involve differences in distribution of amounts between different classes of creditors."

That the RP has further placed reliance on the Judgement of Hon'ble NCLAT in the matter of The Asst. Commissioner of CGST & Central Excise Vs Kuresh Hatim Khambati, Company Appeal (AT) (Insolvency) No. 174/2021

4....The Resolution Professional is pointing out that according to the Valuation Report it was clear that the amounts payable to the Appellant would be Nil in case of Liquidation and as has been set out in the approved Resolution Plan and when the Amounts payable to the Appellant as Operational Creditor were determined to be Nil, Regulation 38 of CIRP Regulations, 2016 to pay on priority would not be relevant. It is argued that the Resolution Plan was in compliance with Section 30(2) of the IBC read with Regulation 38 of CIRP, Regulations and thus it was placed before the CoC. Workmen and Employees as Operational

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Creditors were the continuing stakeholders and on humanitarian grounds it was required that their dues should be paid to the fullest extent and hence Resolution Plan contains corresponding allocation to them. Other Operational Creditors (Other than Workman and Employees and Statutory Dues) who provide continuous support to the Corporate Debtor to ensure that in the future also their support is received to run the Corporate Debtor, the Resolution Plan provided for allocation ex gratia to such Operational Creditors. It is argued that although if the Company was to go in Liquidation the Operational Creditors would have got Nil, still the Resolution Plan made provisions for Workman and Employees and other Operational Creditors (Other than Workman and Employees and Statutory Dues) and thus the Resolution Plan was not bad in law. It is argued that the CoC has considered the Resolution Plan and approved the same in commercial wisdom and may not be interfered with. The Resolution Professional has also argued that Annexure 5 filed with the Resolution Plan gives a list of various litigations with regard to the claim made by the Appellant and in such factual background the claim made by the Appellant was admitted only on contingent basis and now with the Approval of Resolution Plan, the claim would not be enforceable. The claim made by the Appellant was less than 10 % of the aggregate debt of Corporate Debtor and thus the Appellant was not entitled to even notice under Section 24(3) of IBC.

8. Adjudicating Authority has considered the Revised Position of claims received as on 28th October, 2020 (Paragraph 4 of the Impugned Order) which showed that the amounts claimed by the Financial Creditors

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admitted were Rs. 20,904,644,307/- and that the dues of Operational Creditors (Workman and Employees) admitted were of Rs. 82,253,253/-. It is recorded that amounts claimed by Operational Creditors (Statutory Dues, Liabilities including outstanding government authority dues, taxes, etc.) were Rs. 4,827,297,551/- (which includes amounts admitted on provisional as well as contingent basis). Then there are dues which were admitted by Operational Creditors (Other than Workmen and Employees and statutory dues) which were of R. 213,192,038/- (including amount admitted on/contingent basis). Considering these amounts and the Liquidation Value, it is difficult to find fault with the Resolution Plan as has been approved. There is substance in the submissions made by the Resolution Professional that if the Corporate Debtor was to go in Liquidation, the Appellant would get Nil amount.

(Emphasis Supplied)

REASONING

24 That after going through the objections made by the Operational Creditors, and examining the reply given by the RP and CoC, this bench observes that as per Section 30(2)(b) of IBC, 2016, the higher of the following amount is required to be paid to the Operational Creditors i.e the amount to be paid to such creditors in the event of a liquidation of the corporate debtor under section 53; or the amount that would have been paid to such creditors, if the amount to be distributed under the resolution plan had been distributed in accordance with the order of priority in sub-section (1) of section 53.

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25 Since the Liquidation value of the Operational Creditors is 'Nil' and the amount which shall be distributed to the Corporate Debtor in accordance with Section 53(1) would have been the Nil as well. Therefore we are of the considered view that the Resolution Plan is not

in violation of Section 30(2)(b) of IBC, 2016.

26 Since the plan is approved by the 100% votes by the CoC. Therefore this bench cannot interfere in the Commercial Wisdom of the CoC, in absence of any contravention of any provision of law.

Therefore we dismiss IA 3286, IA 3293, IA 3318, IA 3396, IA 3614, IA

3862 ,IA 3869 Of 2021, IA 4099 filed by the Operational Creditors.

That IA 3608, IA 3619, IA 3620, IA 3621 were the Applications filed by the CoC to intervene in the Applications filed by the Operational Creditors. Since the objections of the operational Creditors are already decided, therefore these IAs are dismissed as infructuous.

IA 3015/2021

28. That IA 3015/ 2021 has been filed by Central Transmission Utility of India Limited, claiming to be an Operational Creditor against the RP. That through this IA Central Transmission Utility of india Limited has sought admission of Rs 26,325,400,000 as an Operational Debt.

29. That the necessary of adjudicating the claim of the Operational Creditor in IA 3015/2021 is not required since the all the Operational

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Creditors, irrespective of their claim amount, are awarded with 'Nil' amount in the Resolution Plan,. Therefore IA 3015/2021 is dismissed as infructuous.

IA 2897/2021

- 30. That IA 2897/2021 is also an objection the Resolution to the Resolution Plan filed by SHAARC Projects Ltd (hereinafter referred as SHHARC). That the SHAARC has made the following prayer in its application
 - a. The Resolution Professional be directed to Include the balance portion of expenses of Rs 1,85,01,466.12
 - b. Alternatively, the Resolution Professional be directed to make this payment of Rs. Rs 1,85,01,466.12
 - c. Order cost of Rs 1 Lacs to the MSME unit for filing and defending this matter.
 - d. Since this matter is for objection to a proposed Resolution Plan, the same may be taken on Priority along with the hearings for Approval / Rejections of the proposed Resolution Plan.
 - e. Pass such other order / directions as this Hon'ble Bench may deem fit and proper in the facts and circumstances of the case
- 31 That the main grievance of the SHAARC is that the Resolution Plan is in violation of Section 30(2)(a) of IBC, 2016 since the Resolution does not takes account the full expenses which were made during the CIRP as a part of the CIRP cost.
- 32 It is stated by the SHAARC that it had continued to supply goods/services after the date of CIRP i.e from 1.10.2020 till 30.04.2021. It is

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added that the value of goods/services provided during the CIRP was of Rs 6,77,11,154.37.

It is further stated by the Applicant that The following amounts have been adjusted from this outstanding during CIRP of Rs. 6,77,11,154.37 to arrive at the Net Principal Outstanding balance of Rs 1,80,58,879.12 as follows:

a. An amount of Rs. 8,84,748 has been deducted as TDS on the supplies made,

b. Diesel Recovery of Rs. 57,70,462 has been recovered

c. Rent Recovery Rs 96,000

d. Part Payments received Rs 3,00,54,205

e. The opening Credit balance of Rs1,28,46,060.25 payable to Essar Power MP Limited has also been adjusted

f. An excel summary of all these workings have been enclosed for easy reference as separate Annexure

It is stated by the SHAARC that, the Bills under contentions in this application are leading to a net Principal Outstanding Amount of Rs 1,80,58,879 and these have been raised from 1st October 2020 till 30th April 2021, after the date of the Initiation of CIRP as per the above CIRP Order dated 29 September 2020.

35 It is further stated by the SHAARC that since it is a MSME, therefore MSME Interest of Rs 4,42,587 has been considered on the balance

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outstanding, calculated 45 days from the bill dated. 28/02/2021 as per MSMDE Act.

36 That the RP has filed its reply and has stated that that consequent to

the Public Announcement, the SHAARC vide its Form-B dated 20.10.2020

and submitted its claim for an amount of INR 2,71,53,207 (Indian Rupees

Two Crores Seventy-One Lakhs Fifty-Three Thousand Two Hundred and

Seven), claiming to be due and payable by the Corporate Debtor in

consideration for the Job undertaken by the SHAARC ("Erstwhile Claim"). It

is stated that that out of the total Erstwhile Claim, an amount of INR

2,66,08,356 (Indian Rupces Two Crores Sixty-Six Lakhs Eight Thousand

Three Hundred and Fifty-Six) was admitted ("Admitted Claim) and hence,

the SHAARC was duly admitted as the operational creditor of the Corporate

Debtor.

37 It is stated by the RP that Since, the Applicant continued providing its

services during the CIRP as per the Work Orders, it was incumbent upon it

to complete the work as per the agreed schedule.

38 It is submitted by the RP that based on these discussions. RP

Understood that despite sending several requests to the SHAARC for

expediting the work process at the Plant by mobilizing and deploying

additional resources, SHAARC maintained a lackadaisical attitude which put

the ash dyke cells at the Plant in jeopardy. In view of the above position, the

Corporate Debtor, vide its emails dated 08.10.2020 and 12.10.2020 once

again requested the SHAARC to adhere to the completion schedule as per the

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Work Order(s), for carrying out and completing the Job. However, SHAARC

not only failed to do the needful, but also failed to even respond to the said

emails. The copy of the emails dated 8 October 2020 and 12 October 2020

have been placed on record.

39 It is stated by the RP that various rounds of discussions were

conducted with officials of the Applicant, wherein the company personnels

informed about unsatisfactory work progress and also regarding its payment

obligations towards the Corporate Debtor to the tune of INR 3,97,83,375.55

(Indian Rupees Three Crores Ninety-Seven Lakhs Eighty-Three Thousand

Three Hundred Seventy-Five and Fifty-Five Paise only) under the Scrap Sale

Agreement as on 29.09.2020.

40 It is added by the RP that In relation to the above mentioned dues,

SHAARC vide its letter dated 11 January 2021 requested the Corporate

Debtor to recover @35,00,000/ (approx.) per month against the amount

payable by it.

41 It is stated by the RP Subsequently, based on mutual verbal

discussions amongst the parties, a consensus was arrived that the SHAARC

would discharge its dues towards the Corporate Debtor in a periodic manner

by agreeing for an adjustment of INR 35.00.000 (approx.) per month against

the invoices for work carried out under the Work Orders.

42 It is submitted by the RP While the dues of the Applicant under the

Scrap Sale Agreement were agreed to be adjusted at the rate of INR

Dago 20 of 40

35,00,000 (approx) per months and thus, were likely to be resolved in a periodic manner, however, another issue arose qua Applicant's failure in making timely payment to the sub contractors and workmen/labourers engaged by it at the Plant. It is submitted that in view of the same. The Corporate Debtor also faced with the said unpaid claims of the sub contractors and workmen/labourers, who demanded immediate payment of their dues from the Corporate Debtor and further threatened to stall the ongoing work at the Plant by initiating a strike.

43 It is added by the RP that certain local vendors/ workmen engaged by the Applicant at the site ("Obstructors) continuously caused disruptions at the plant of the Corporate Debtor by way of inter-alia, forceful blockage of the Ash Dyke gate on account of non-payment of their dues by the Applicant. It is submitted that the smooth functioning and operation of the Plant is quintessential to continue the Corporate Debtor as a 'going concern'. Accordingly, considering that it was extremely necessary that all obstructions for the smooth functioning of the plant were removed, which were severely impacting the operations of the Corporate Debtor, RP made direct payments to the workmen (through the local vendors) engaged by the Applicant at the plant so that they may be persuaded to terminate their strike at the earliest and resume work. It is further submit that the Applicant vide its emails dated 06.05.2021 and 14.05.2021 expressed its inability to pay the dues of workmen and labourer engaged by it for the completion of the Job and requested the Corporate Debtor to make direct payments to the workmen and labourer...

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It is submitted by the RP that during the course of the CIRP of the Corporate Debtor, the Applicant has raised invoices aggregating to a sum of INR 6.77.87,380 towards the Work Orders issued by the Corporate Debtor, which was further reduced to INR 6.69.25.676 after adjusting TDS towards this amount, the Corporate Debtor has made payment aggregating to a sum

of INR 6,69,18,062 in the following manner:

(i.) an amount of INR 3,52,89,228 paid (to the Applicant as well as to its sub-contractors directly on Applicant's request);

(ii.) an amount of INR 2,44,76.462 withheld as part of the Adjustment of Applicant's dues against purchase of metal scrap from Corporate Debtor in terms of the mutual consensus: and

(iii.) an amount of INR 71,52,372, adjustment to the payables on account of High Speed Diesel supplied to the Applicant as per work order.

It Is further stated by the RP that so far only an amount of INR 2,44,76,462 has been adjusted as per mutual consensus, out of total dues of INR 3.97.83.375.55 (Indian Rupees Three Crores Ninety -Seven Lakhs Eight Three Thousand Three Hundred Seventy-Five and Fifty-Five Paise) under the Scrap Sale Agreement, the Applicant is still liable to make payment of an amount of 1,53,06,913 (Indian Rupees One Crore Fifty-Three Lakhs Six Thousand Nine Hundred and Thirteen Only).

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46 Therefore, the Corporate Debtor does not have any outstanding amounts due and payable to the Applicant for the period during the CIRP, and in fact there is a receivable position. It is added that in view of the above, a total amount of INR 1,53,06,913.55 is due and pending to be received from the Applicant, after netting the during CIRP payables to with the receivables of the Corporate Debtor. I submit that as per the books of accounts of the Corporate Debtor, after due adjustments and set off, the Applicant is still liable to pay to the Corporate Debtor an amount of INR 1.53,06,913.55. Hence, it is evident that the present Application through which the Applicant seeks direction from this Hon'ble Tribunal for the admission of its claim is baseless and devoid of merit Further, any prayer that has been sought against the Resolution Professional has no basis in law, as the Resolution Plan voted for by the COC is already Sub judice before this Hon'ble Tribunal, which would ultimately decide the manner of payments.

After hearing submissions of both the parties this bench observes that the RP has given justification that the claim of the Corporate Debtor is higher in comparison to what SAARC has to recover form the RP during the CIRP period. It has been emphasized by the RP that the SHAARC has not paid its dues towards the purchase of scrap. That SHAARC has admitted its liability in its letter dated 11.01.2021 where they submitted that they shall pay Rs 25,00,000 per month. The scanned copy of the same is reproduced below

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SHAARC PROJECTS LIMITED

Regd, & Head Office: 309-C, 3rd Floor, Megh Mather Complex, Sector-11, Candhinaper - 392 Ct1, Cujaret, INDIA. 204, 2nd Floor, Megh Melhor Complex, Sector-11, Candhinager - 382 Ct1, Gujaret, INDIA.

Email: Info@shaurc.co.in, splgnagan@gmuil.com Phono: 079 - 232 46393,

Website: www.shanrc.co.in CIN: U45201GJZ011PLC065822

SPL/GNR/ACS/2020-21/076 Date: 11.01.2021

The Project Manager Essar Power MP Limited, Vill, Bhandora, PO- Karsualal. Tal- Waidhan, Dist Singroll, Madhya Pradesh.

Subject : Payment of our duex for Ash Dyke work at EPMPL, Mahan, M.P.

With reference to above subject, we wish to bring to your knowledge that we are working at Mahan site for Ash Dyke work.

We wish to bring to your kind attention that PRE IRP our receivable from EPMPL was 2.76 Crores and at the same time we have to pay Ax. 3.97 crores to EPMPL.

We request you to recover @ Rs. 25.00.000/- per month against the amount payable by us.

We request you to kindly confirm the same so that we can get our payment regularly & timely and continue to work simultaneously.

Hoping for your co-operation in this regard.

For Shaarç Projects Limited

Authorized Signatory

48 Further, it is apprised by the RP that the dues under the Scrap Sale Agreement were agreed to be adjusted at the rate of INR 35,00,000 (approx) per month and thus were likely to be resold in a periodic manner, however since the SHAARC failed to make payment to sub contractor/workmen labor. The Corporate Debtor was burdened with unpaid claims. The copy of the mail dates 06.05.2021 and 14.05.2021 has been placed by the RP which depicts inability of the Shaarc to Pay the dues of Sub Contractor, Labor. The mails further depicts that the SHAARC had requested the Corporate Debtor to clear their dues. The scanned copy of the mail dated 14.05.2021 is reproduced below

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From: M.K.Mishra [mailto:mkmishra@shaarc.co.in]

Sent: 14 May 2021 12:01

To: Singh, Lallan - EPMPL - Maintenance (HAZ)

Cc: Sinha, Ajay K. - EPMPL - Waidhan; Sanyal, Sukanta- EPMPL-Mechanical- Mahan; Singh, Rajesh -

EPMPL - Head - HR, IR, Admin, R&R & CSR - Mahan; Thite, Anand - EPMPL - Mahan; R MISHRA

Subject: Re: FW: Payment of local vender

Dear sir,

Further to the trailing mails and our discussion in this connection.

Please find enclosed revised list of PRW Contractors and Local workers of Mahan site who are chasing for their payments to us as well as to you too and are creating nuisance at Mahan site.

You are requested to kindly look into the same and arrange to make direct payment to them on our behalf out of the net amount payable to us.

Thanks & Regards,

M. K. Mishra

Shaarc Projects Ltd.

309-C, Third floor, Megh Malhar Commercial Complex,

That the RP has adjusted the amount of Rs 6,77,87,380 towards the work orders issued by the Corporate Debtor, which was further reduced to Rs 6,69,25,676 after adjusting TDS. That the RP in its reply has stated that it has adjusted RS. 6,69,18,062 in following manner

(i.) an amount of INR 3,52,89,228 paid (to the Applicant as well as to its sub-contractors directly on Applicant's request);

(ii.) an amount of INR 2,44,76,462 withheld as part of the Adjustment of Applicant's dues against purchase of metal scrap from Corporate Debtor in terms of the mutual consensus: and

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(iii.) an amount of INR 71,52,372, adjustment to the payables on

account of High Speed Diesel supplied to the Applicant as per work

order.

50 It is further pleaded by RP that an amount of INR 2,44,76,462 has

been adjusted as per mutual consensus, out of total dues of INR

3,97,83,375.55 (Indian Rupees Three Crores Ninety -Seven Lakhs Eight

Three Thousand Three Hundred Seventy-Five and Fifty-Five Paise) under the

Scrap Sale Agreement, SHAARC is still liable to make payment of an amount

of Rs. 1,53,06,913.

51 Therefore, in light of the events which happened during the CIR

Process between SAARC and the Corporate Debtor and while note of the

dues paid by the Corporate Debtor on behalf of SHAARC and liability of

SAARC under Scrap Sale Agreement, we find no illegality in the actions of

the RP. Accordingly we are of the considered view that the SHAARC has

no valid claim arising out of the CIR Process which is required to be

paid as a part of the CIRP Cost. Hence IA 3015 is devoid of any merit.

Hence the same is dismissed.

IA 2785 of 2021

52. Now it is necessary to examine other IAs which have challenged the

Resolution Plan. That IA 2785 of 2021 is filed by one more Operational

Creditor i.e U.P Jal Vidyut Nagar Limited.

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- 53. That the U.P Jal Vidyut Nagar Limited has sought the following reliefs-
 - (i) Direct the Resolution Professional of the Corporate Debior to admit the entire amount claimed by the Applicant i.e. an amount of INR 12,08,64,637 (Rupees Twelve Crore Eight Lac Sixty Four Thousand Six Hundred Thirty Seven Only), being the total outstanding amount payable till September 29, 2020 i.e, the date of commencement of CIRP;
 - (ii) Direct the Resolution Professional to revise and update the list of creditors uploaded on the website of the Corporate Debtor as per Form B submitted to the Respondent; and
 - (iii) Direct the Resolution Professional to admit the outstanding claim amount of Rs. 5,17,21,063 (Rupees Five Crore Seventeen Lakhs Twenty One Thousand Sixty Three Only) for the period of October 2020 to May 2021 and immediately release payments for the same.
 - (iv) Direct the Resolution Professional of the Corporate Debtor to pay month to month charges to the Applicant towards the drawl of water; and
 - (v) Pass any other or further order(s) as this Hon'ble Tribunal may deem fit and necessary in the facts and circumstances of the given case.
- 54. That the necessary of going into the Prayer (i) and (ii) made by U.P Jal Vidyut Nagar Limited is not required since undisputedly the U.P Jal Vidyut Nagar Limited, is falling under the category of the Operational Creditor. That irrespective of the claim amount the Operational Creditor are awarded 'nil' value in the resolution plan.

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55 That with respect to Prayer (iii) and (iv) the U.P Jal Vidyut Nagar

Limited has raised its claim which as per it is arising during the CIRP

Period.

56 That the RP in response to the same has stated that the Corporate

Debtor was allocated 0.058 MAF per annum of water by Madhya Pradesh

Water Resource Department ("MPWRD") from Rihand Reservoir on 27 July

2006, against Government of Madhya Pradesh's share of water in Rihand

reservoir which is under the control of the Applicant. Therefore, in order to

permit the Corporate Debtor to draw water from the reservoir by building an

intake pump house in Uttar Pradesh, an Agreement dated 23 October 2009

was entered into by and between the Corporate Debtor and the U.P Jal

Vidyut Nagar Limited.

57 It is added that UPJVNL started raising invoices for the water drawn

by the Corporate Debtor, purportedly exercising its rights under the 23

October Agreement. Additionally, MPWRD also started levying charges on

the water drawn from Rihand Reservoir, under the terms of the Agreement

For Supply of Water, To Industrial /Power Plant dated 16 February 2010 on

the ground that the water drawn is from the share of the state of Madhya

Pradesh

58 It is further stated by the RP that On 20 June 2013, the Corporate

Debtor addressed a letter to the Applicant intimating that both the Applicant

and the MPWRD have been raising invoices on the Corporate Debtor for the

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same quantum of water drawn from the Rihand reservoir. Accordingly, the Corporate Debtor requested the UPJVNL to cancel the invoices raised on the Corporate Debtor in relation to the water drawn from the Rihand reservoir. Additionally, on 21 September 2013, the Corporate Debtor addressed a letter to the Applicant intimating that the Corporate Debtor has raised the same issue with MPWRD.

The Corporate Debtor filed Writ Petition No. 1724 of 2015 ("First Writ Petition") before the Hon'ble Madhya Pradesh High Court on 2 February 2015 challenging the UPJVNL right to levy water charges since the water is allocated from the share of the State of Madhya Pradesh and the charge for the same is also levied by the Government of Madhya Pradesh. The Hon'ble Madhya Pradesh High Court vide an order dated 30 March 2015 restrained the Applicant from taking any coercive steps pending the final hearing of the said Writ Petition. Subsequently, on 27 February 2020, the First Writ Petition was dismissed for lack of jurisdiction. Thereafter, the Corporate Debtor filed Writ Petition being WP No. 12331/2020 on 22 July 2020 before the Hon'ble High Court of Allahabad ("Second Writ Petition") challenging the Applicant's right to levy charges for supplying water. The Second Writ Petition is currently pending before the Hon'ble Allahabad High Court and has not been taken up for hearing.

With regard to the payment of month to month charge sought by UPJVNL for drawing of water it is stated by the Applicant that The Corporate Debtor has been drawing water from the state of Madhya Pradesh's share of the upstream of Rihand lake and has accordingly been making payments to

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MPWRD since 2013 towards water usage charges, including during the CIRP period.

61 It is further stated by the RP that . It is an expressly admitted position

of the Applicant that even after the expiry of the term of the 23 October

Agreement, the arrangement by which the Corporate Debtor has been

drawing water from the state of Madhya Pradesh's share of water from the

Rihand reservoir and by utilising the pump house located under the control

of the Applicant in Uttar Pradesh is continuing. In this regard, the Corporate

Debtor has been duly making payments towards the lease rentals of the

pump house to the Applicant. In fact, the claim of the Applicant in the

present IA is in itself limited only to drawl of water.

62 In respect of the claim of the UPJVNL arising during the CIRP period it

is stated by the RP that the In the Second Writ Petition, the Corporate

Debtor has inter-alia challenged the right of the Applicant to levy and

recover, charges for drawl of water and, costs for loss of power generation

from the Corporate Debtor under the 23 October Agreement. Therefore, the

question as to whether the charges for drawl of water are to be paid to the

Applicant or to MPWRD is also pending consideration of the Hon'ble

Allahabad High Court.

63 Per Contra the UPJVNL in response to the contention raised by the RP

that it had paid the charges to the Madhya Pradesh Government, therefore it

is not required to pay charges to UPJVNL has stated charges payable to it

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are over and other than what was required to be paid to UPJVNL. That reliance has been placed on Clause 6 and Clause 8 of the Agreement which are reproduced overleaf -

"6. MAXIMUM DEMAND AND UTILIZATION OF WATER

- Pursuant to the permission granted by state of a. Madhya Pradesh vide its letter no. 4887/13/2006 dated 27.07.2006, maximum quantity of water to be drawn from the upstream of the Lake by the Consumer is limited to 0.058 MAF/annum (i.e. 15714.59904 million imperial Gallon per annum) ("Entitlement"). In case of non-observance of this clause by the Consumer, the Consumer as and when called upon by the notice from the Supplier, forthwith take all steps to reduce the intake to the above-mentioned quantity. The quantity of water drawn in excess of the above quantity shall be paid for by the Consumer with a surcharge of 50% calculated on the rate provided in clause 8 of this agreement. The right of the Supplier to disconnect the supply of water will not, however, in any case extinguish.
- b. The Consumer shall utilize the water obtained under this agreement solely for the purpose of running its works and its appurtenant works and for distribution in their colony to their people employed or engaged on its works and shall neither utilize the same for any

By MOlow:

other purpose nor sell the same to any party, whatsoever, without the prior permission of the supplier. Any breach of these stipulations shall automatically entitle the Supplier to determine the agreement and to disconnect the supply and forfeit the security deposited by the Consumer.

"8. RATES

- a. The Consumer shall pay to the Supplier for the permission granted to it for pumping water from upstream of the Lake for the purposes mentioned in Clause 6 (b) at the rate specified in the O.M. No.186/JNL/CMD/03-(WC)/2001 dated February 3, 2001 issued by Deputy General Manager (HQ)based on the minutes of the meeting chaired by Hon'ble Minister of Energy, U.P. and participated by Secretary (Energy), Govt. of U.P., Chairman UPSEB and CMD, NTPC at Lucknow on April 03, 1999 to formulate "Principles for consumptive power charges for future" (The rate being 189.256198 Gallons per rupee for the period January 01, 2009 to December 31, 2013 to be revised upwards by 10% after every five years.)
- b. No discharge will be made by the consumer in the Rihand reservoir. Consumer will have to follow pollution norms strictly."

That in our view the dispute with regard to the charges levied by UPJVNL existed between the Corporate Debtor, UPJVNL and State of Madhya Pradesh, much prior to the initiation of CIRP. Further the litigation went to the Hon'ble High Court of Madhya Pradesh, by filing Writ Petition, which got dismissed on the jurisdictional ground. Further the Writ Petition was filed before the Hon'ble Allahabad High before the commencement of the CIRP.

65 Here it is not the case where no payment, whatsoever made by the Corporate Debtor during the CIR Process for using the water, as the payment has been made to the Madhya Pradesh Government. Since the right of UPJVNL to levy charges for supplying water to the Corporate Debtor is already under challenge, prior to the initiation of the CIRP before the Hon'ble Allahabad High Court, therefore we are of the considered view that this Adjudicating Authority has no jurisdiction to adjudicate the dispute or any claim arising out of such transaction which is subject matter of Writ Petition before the Hon'ble Alahabad High Court.

66 That Accordingly we are of the view that Prayer (iii) and (iv) made in IA 2785 of 2021 requires no consideration. Hence IA 2785 of 2021 is dismissed.

67 That the UPJVNL has further objected towards the following concession sought in the Resolution Plan

"(iii) The Resolution Applicant considers the uninterrupted supply of water and use of land in terms of the Articles of Arrangement signed with Uttar Pradesh Jal Vidyut Nigam Limited ("UPJVNL") on December 23.2009 ("UPJVNL Agreement") for permission for use of land and water drawl, to be critical to preserve the value of the Corporate Debtor and to maintain its status as a going concern. Accordingly, the UPJVNL Agreement shall renew for a period of 12 months from the Effective Date in terms of the Resolution Plan against the Corporate Debtor and UPJVNL."

68 It is stated by UPJVNL that a new contract or terms and conditions of the contract cannot be created by this Adjudicating Authority between the Corporate Debtor and the Applicant. That the UPJVNL placed reliance on the Judgement of Hon'ble Supreme Court in Jaypee Kensigton Boulevard Apartments Welfare Association & Ors V NBCC (India) Ltd. Civil Appeal no. 3395 of 2020 to support its contentions.

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69 On the other hand the Resolution Professional has stated in order to revive the Corporate Debtor and to keep the status of Corporate Debtor as going concern it is necessary to incorporate such clause.

70 After hearing submissions of the RP and UPJVNL on the concession sought in Section 6 of the Resolution Plan this bench observes that, it has been admitted by the UPJVNL in its written submissions that prior to initation of CIRP, even after the date of expiry of the agreement on 22.10.2019. The UPJVNL has allowed the Corporate Debtor to continue to draw water, even when there was no agreement existed between the parties. Further the UPJVNL had allowed the Corporate Debtor during the moratorium.

That the revival of the Company depends upon this permission, if such relief is not granted then revival of the Corporate Debtor could be under threat which could also lead to Liquidation of the Corporate Debtor. That the Hon'ble Supreme Court in Swiss Ribbons Pvt. Ltd. & Anr. Vs. Union of India & Ors. in Writ Petition (Civil) No. 99 of 2018' by its judgment dated 25th January, 2019, has observed that

"11.What is interesting to note is that the Preamble does not, in any manner, refer to liquidation, which is only availed of as a last resort if there is either no resolution plan or the resolution plans submitted are not up to the mark. Even in liquidation, the liquidator can sell the business of the corporate debtor as a going concern."

72 Since the permission of UPJVNL to draw water and use its land pays a vital role in the revival of the Corporate Debtor, therefore, we

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are of the view that in order to revive the Corporate Debtor and to keep it as going concern, it is necessary that UPJVNL shall allow the Corporate Debtor to draw the water and use its land, in terms of the arrangement followed during the moratorium period for a period of 12 Months or till the time any decision is taken by Hon'ble Allahabad High Court, whichever is earlier.

IA 4367 of 2021

73 That one more IA 4367 has been filed by Trikaya Township Pvt. Ltd as an objection to the concessions sought in Section 6 of the Resolution Plan.

That the by Trikaya Township Pvt. Ltd has presented its objection towards the proposal to unilaterally terminate and extinguish the 20 years lease deed entered between Trikaya Township Pvt. Ltd and the Corporate Debtor.

75 It is stated by Trikaya Township Pvt. Ltd (hereinafter referred as TTPL) that the lease deed is valid and subsisting till 31.12.2031

76 it is further submitted by TTPL there is no provision of unilateral termination of Contract under IBC 2016. Therefore the Resolution plan contravenes Section 30(2)(e) of IBC, 2016.

It is further stated by the TTPL that the statement made in the Resolution Plan to the extent that the lease deed entered between the Applicant Trikaya and Corporate Debtor already stood terminated is misleading, false, and bereft of truth. It is submitted that as per letter dt. 29.12.2020, TTPL merely sought payment of the lease rent from the RP of the Corporate Debtor. In the said letter, TTPL had merely stated that in

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absence of the payment of rent by the Corporate Debtor, it will have the

right to terminate the said lease deed however the termination was never

effected. It is submitted that even till date the Corporate Debtor has been

making payment of the outstanding monthly rent in terms of the lease deed

and the Corporate Debtor and its employees continues to occupy the leased

property.

78 That the Resolution Professional filed to reply to the objections raised

by TTPL. It is stated by the RP that the TTPL is related party to the

Corporate Debtor.

79 It is further stated by the RP that The TTPL is seeking to rely upon

purported Lease Deed dated. 16.5.2011, Supplementary Lease. Deed dated

10.2.2012 and Supplementary Lease Deed dated 1.6.2016 (together referred

to as the "Lease Deeds") to contend that the said Lease Deeds cannot be

terminated under the Corporate Insolvency Resolution Process (hereinafter

referred to as "CIRP"). I state that all the aforesaid Lease Deeds are stated to

have been executed in the State of Maharashtra in respect of the properties

situated in the State of Madhya Pradesh. It is stated that no adequate stamp

duty is paid on the purported Lease Deeds. Thus, under Section 35 of the

Indian Stamp Act, 1899, as applicable in the State of Madhya Pradesh, the

aforesaid Lease Deeds are inadmissible in evidence and are liable to be

impounded by this Tribunal.

80 It is further stated by the RP that, any lease of immovable property for

any term exceeding one year has to be compulsorily registered under the

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provisions of Section 107 of the Transfer of Property Act, 1882 read with Section 17 of the Registration Act, 1908. As the purported Lease Deeds are not registered, it is submitted that the said Lease Deeds cannot be received in evidence under Section 49 of the Registration Act, 1908. Hence, it is submitted that, no valid lease has been created in favour of the Corporate Debtor and that the Corporate Debtor is not a lessee by virtue of the purported Lease Deeds. It is further submit that this Tribunal is disabled from using the purported Lease Deeds as evidence. It is further submitted that since the purported Lease Deeds does not and cannot be termed or seen as a valid and subsisting lease in the eye of law, therefore, any attempt to enforce the same cannot hold any ground.

It is further stated by the RP that Even otherwise, the purported arrangement between the Applicant and the Corporate Debtor is one sided, exorbitant, not in ordinary course of business and has been made to enable the Applicant to have a windfall gain at the expense of the other stakeholders of the Corporate Debtor. It is stated that as per the Annual Reports of the Applicant available on the portal of the Ministry of Corporate Affairs, the gross block of the township asset is about Rs. 110 Crores. Under the purported arrangement between the Applicant and the Corporate Debtor, the Applicant, till Financial Year 2019-20, has already received more than Rs. 119 Crores from the Corporate Debtor. From the aforesaid, it is evident that the Applicant, who is a related party, has made windfall gain from the purported arrangement.

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82 That the contents of the concession to which TTPL is objecting is

reproduced below-

1

"On and from the NCLT Approval Date, by order of the NCLT

sanctioning this Resolution Plan, the Township Lease Agreement dated

May 16, 2011 entered with Trikaya Township Limited shall be deemed

to be terminated, with such termination being effective from NCLT

Approval Date. Any claims or liabilities arising as a consequence of

such termination shall be deemed to be relinquished, cancelled and

written-off on the NCLT Approval Date".

83 After hearing objections of TTPL and by perusing the reply of the RP

this bench observes in regard to the concession sought by the Applicant in

Section 6.1 (iv) of the Resolution Plan seeking termination of lease deed

dated 16.5.2011. executed between the TTPL and the Corporate Debtor was

for 20 years. It is observed that the Lease Deed annexed with the Application

is an unregistered Deed. That leases of immovable property from year to

year, or for any term exceeding one year requires compulsory registration to

be held as valid. In our considered view the lease Deed having tenure of 20

years is in contravention of Section 107 of Transfer of Property Act 1882

and Section 17 of the Registration Act, 1908.

84 The Deemed termination which has been sought as a concession in

Resolution Plan has to be considered positively. Infact, its within the domain

of civil law, the aspects of the termination can be decided, if at all TTPL has

any right.

85 Hence we dismiss the objections made vide IA 4367 of 2021.

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ORDER

In the absence of any tenable objection made against the Resolution and keeping note that the Resolution Plan is passed by 100% votes of CoC. Therefore, this bench finds no impediment in allowing the Resolution Plan.

87 The order of the moratorium passed by this Adjudicating Authority under Section 14 of the IBC,2016 shall cease to have effect from the date of passing of this Order.

88 The Resolution Professional shall forward all the records relating to the conduct of the CIRP and the Resolution Plan to the IBBI for its record and database.

- 89. The approved Resolution Plans hall become effective from the date of passing of this Order.
- 90. The monitoring Committee shall be setup and shall take necessary steps for the implementation of the plan.
- 91. That in regard to the concessions sought in Section 6 of the Resolution Plan it is directed that there shall be uninterrupted supply of water and use of land in terms of Arrangement which was followed during the period of moratorium, for a period of 12 months or till the time any decision is taken by Hon'ble Allahabad High Court, whichever is earlier.

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92 That all concessions asked in Section 6 of the Resolution Plan as mentioned in Para 16 of this order shall also be granted to the Corporate Debtor.

93. The Resolution Professional shall forthwith send a copy of this Order to the CoC and the Resolution Applicant.

94. IA-2829 of 2021 is allowed accordingly.

BHASKARA PANTULA MOHAN

ACTG. PRESIDENT

HEMANT KUMAR SARANGI

MEMBER (TECHNICAL)